

Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer

QuikBeam_OutputGain_Enabled_HotBeam_2700K
SPOT

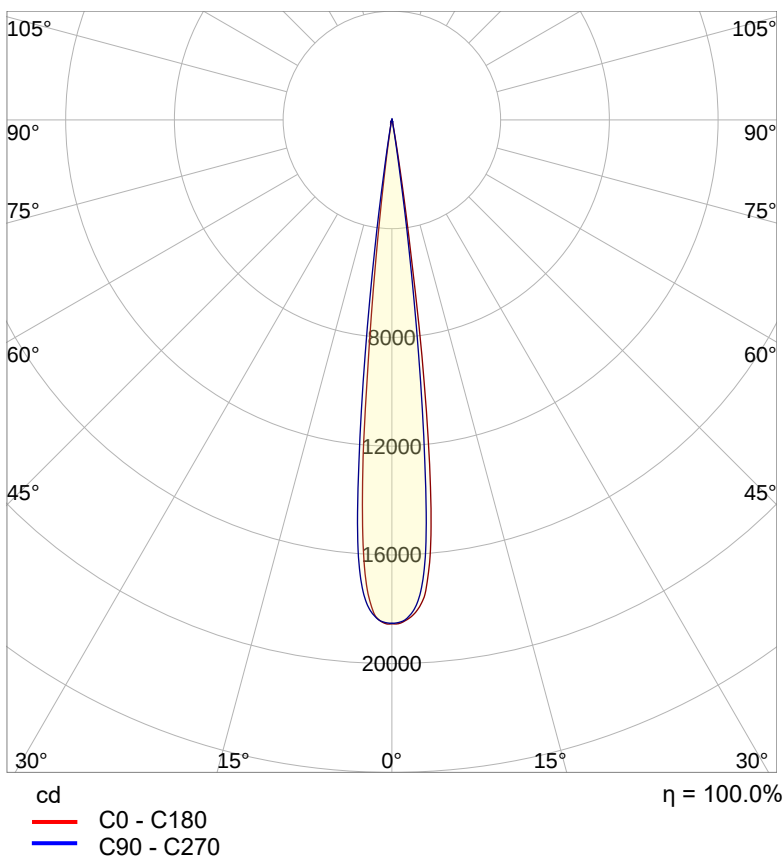
Astera

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

819 lm – 0% / 100%
n/a lm/W
18545 cd
2700 K
CRI 0.0

Polar light distribution diagram

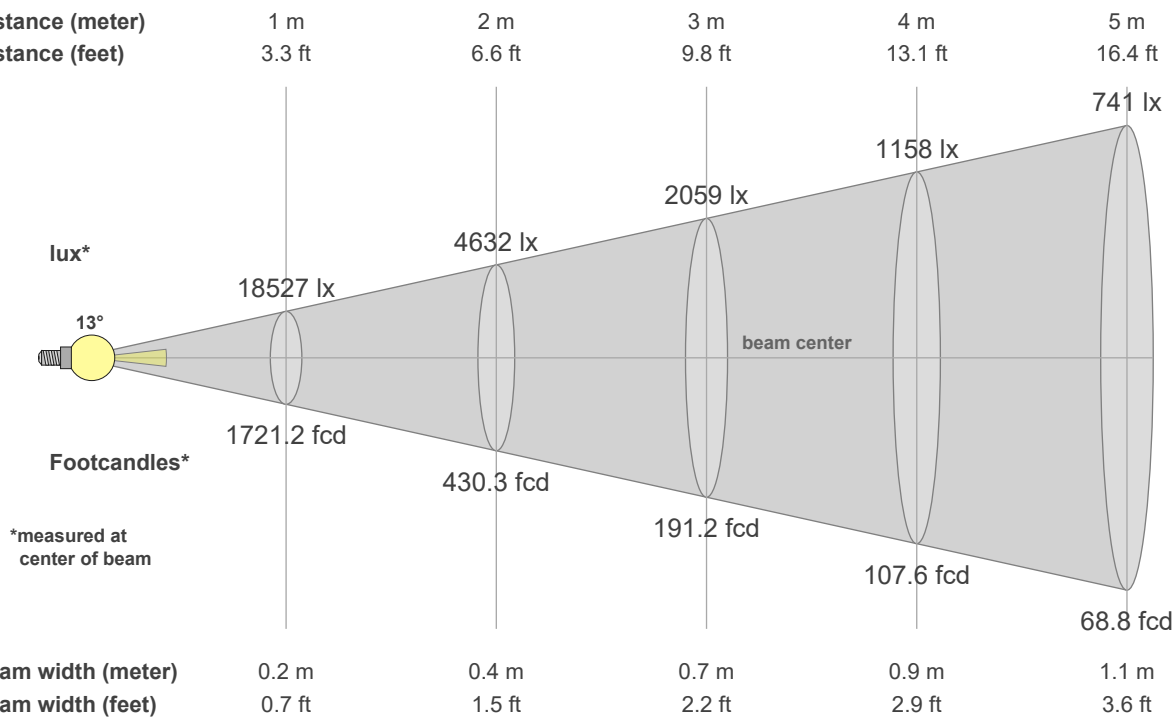


Test report

Light measurement results

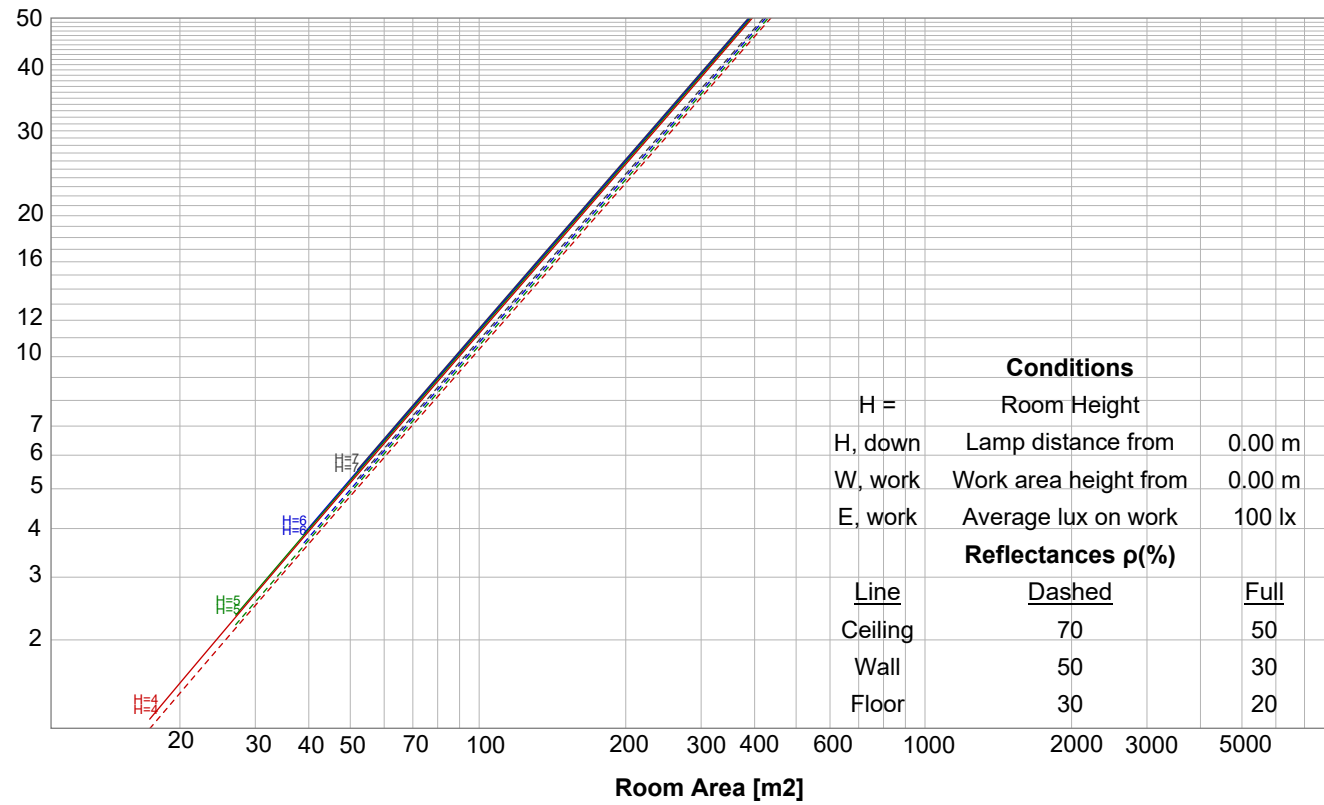
Print date 10/9/2025

Beam details

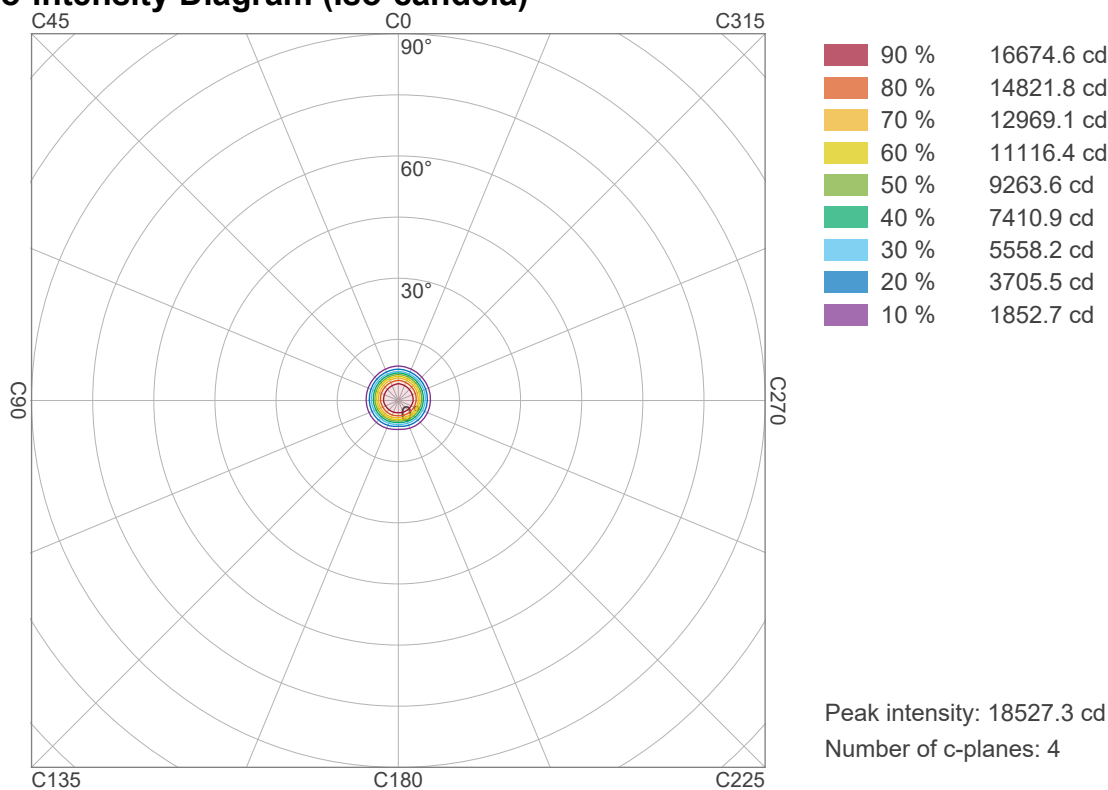


Luminaire budgetary diagram

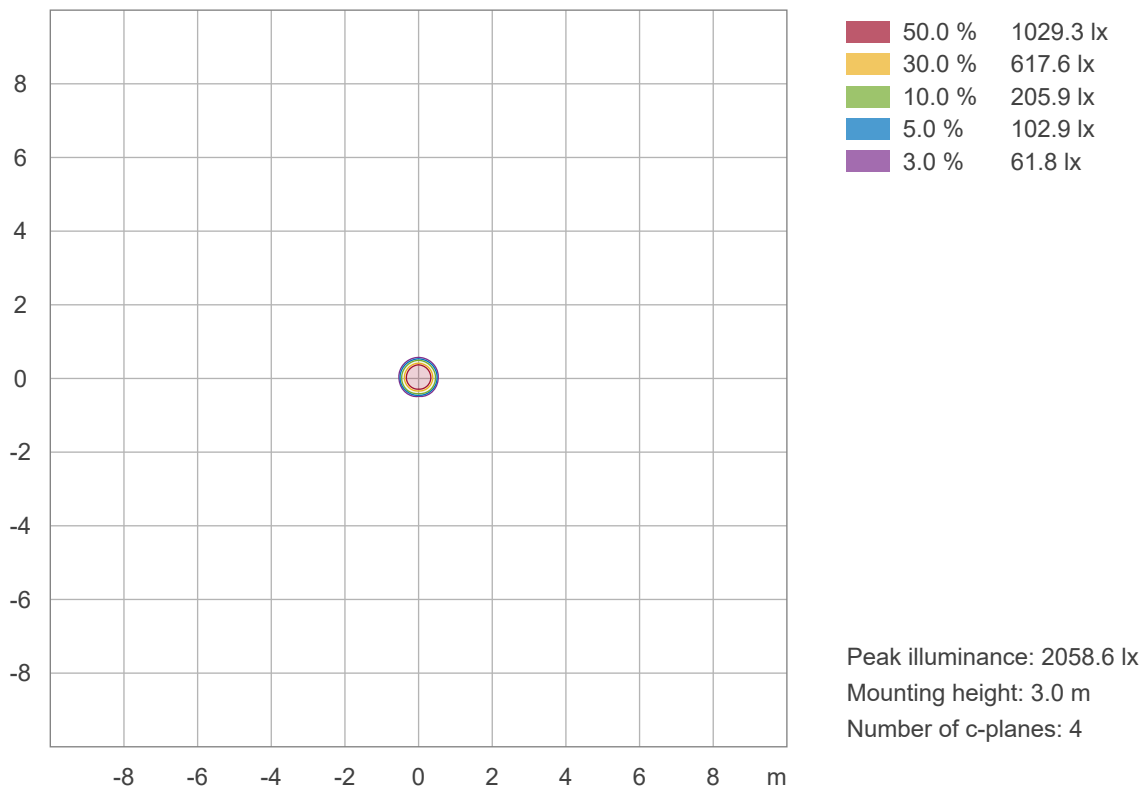
LAMPS (number of lamps)



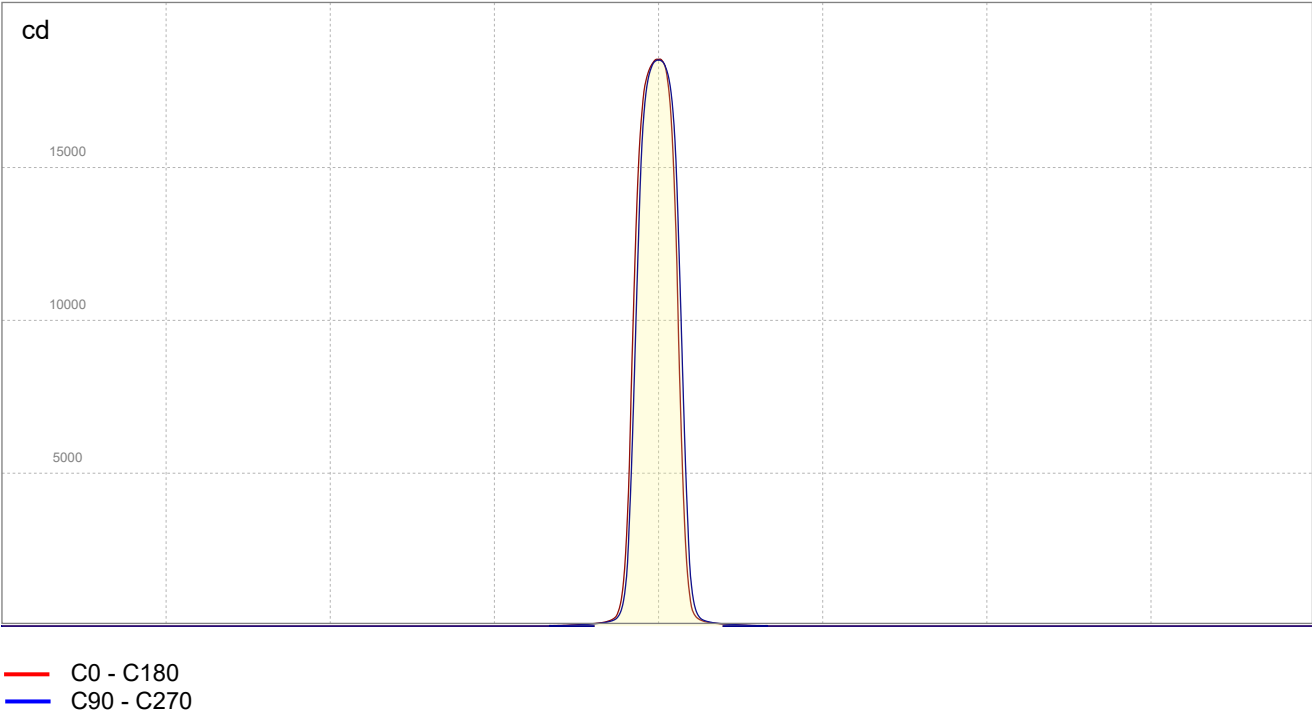
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

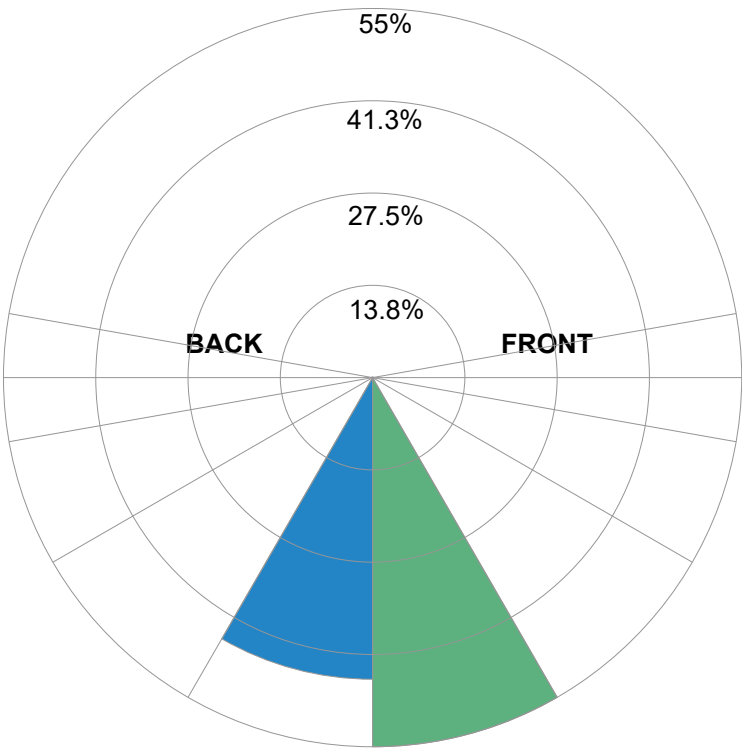


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	450.4	lm	55%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	368	lm	44.9%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	819	lm	100%
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n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

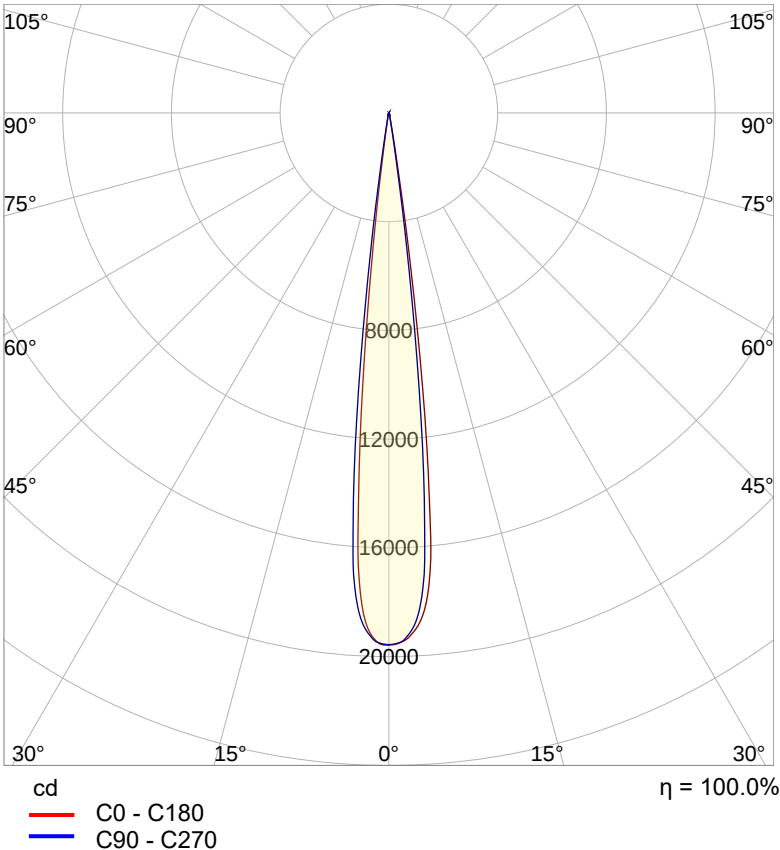
QuikBeam_OutputGain_Enabled_HotBeam_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

864 lm – 0% / 100%
n/a lm/W
19575 cd
3200 K
CRI 0.0

Polar light distribution diagram

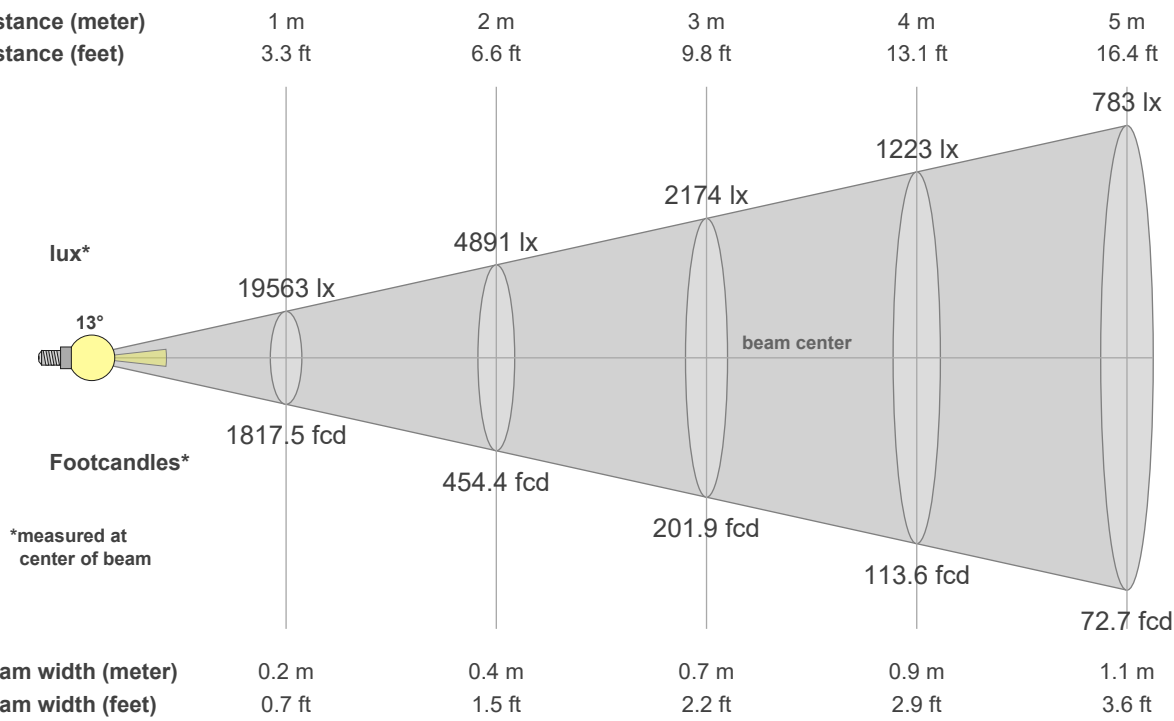


Test report

Light measurement results

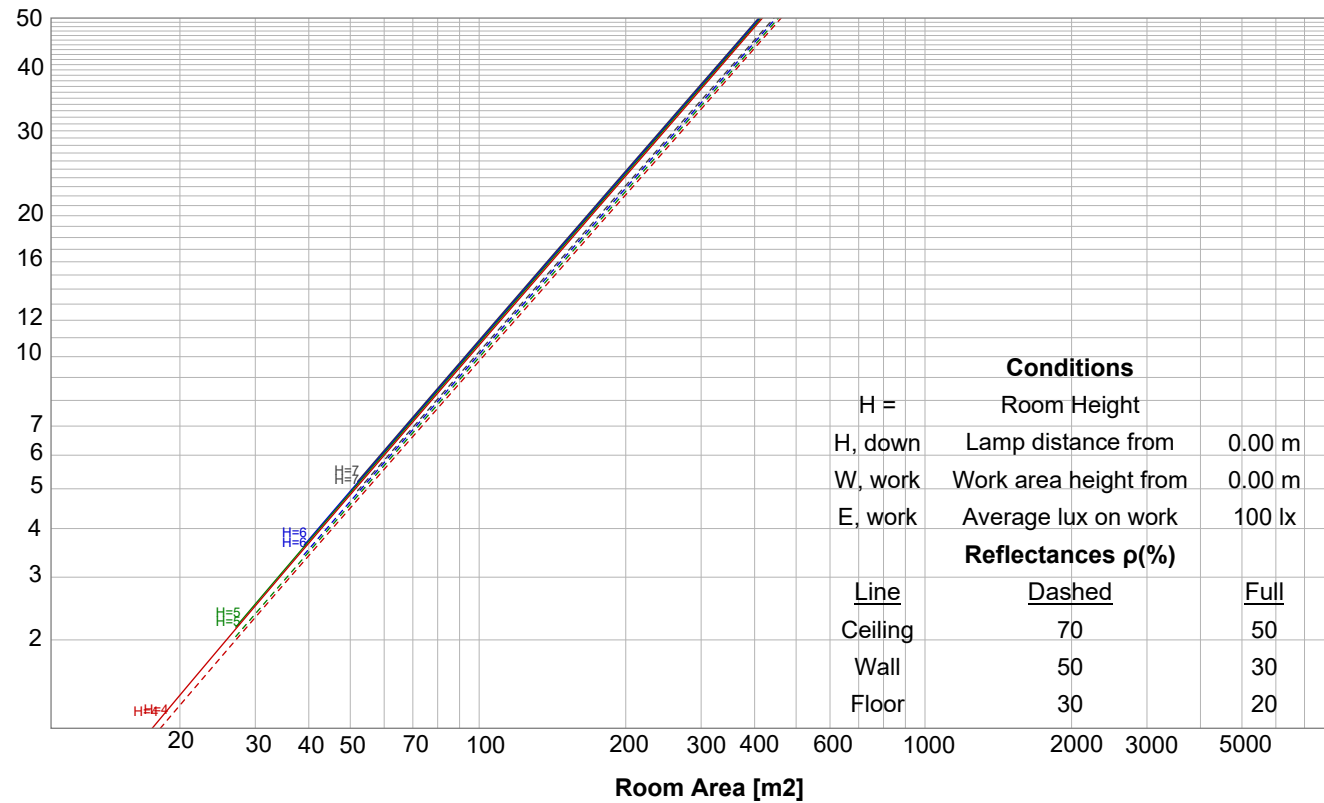
Print date 10/9/2025

Beam details

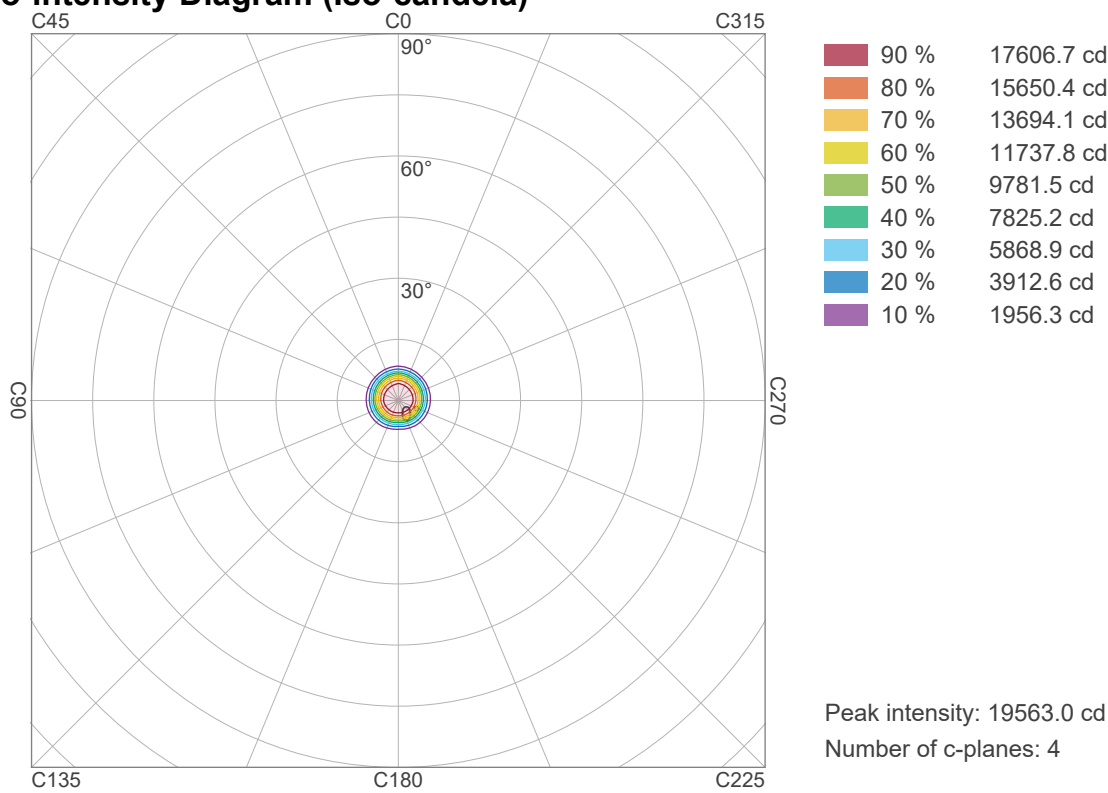


Luminaire budgetary diagram

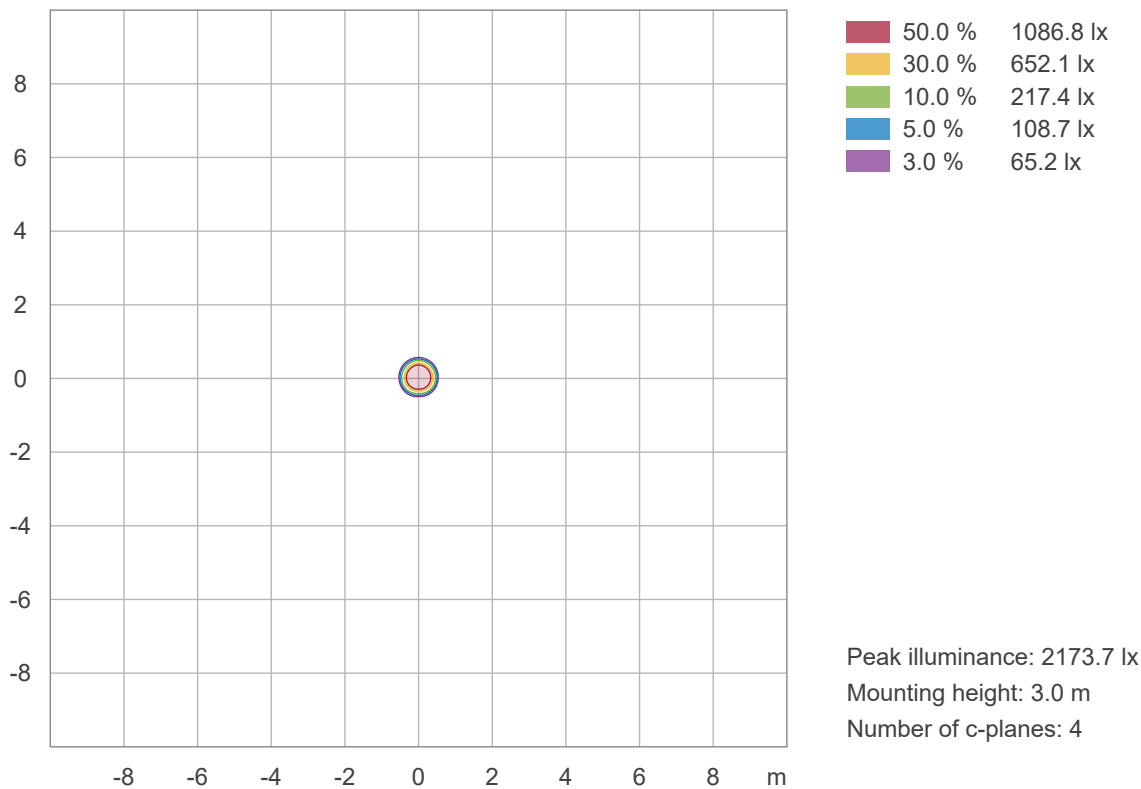
LAMPS (number of lamps)



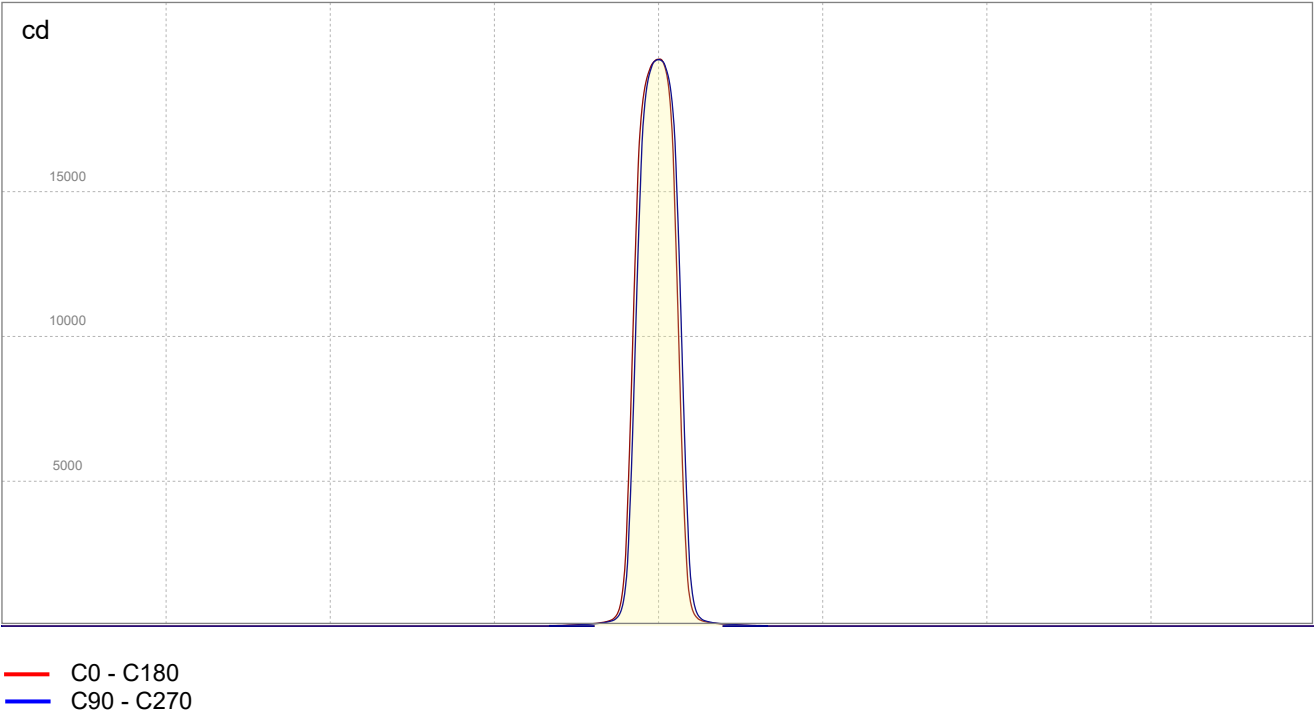
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

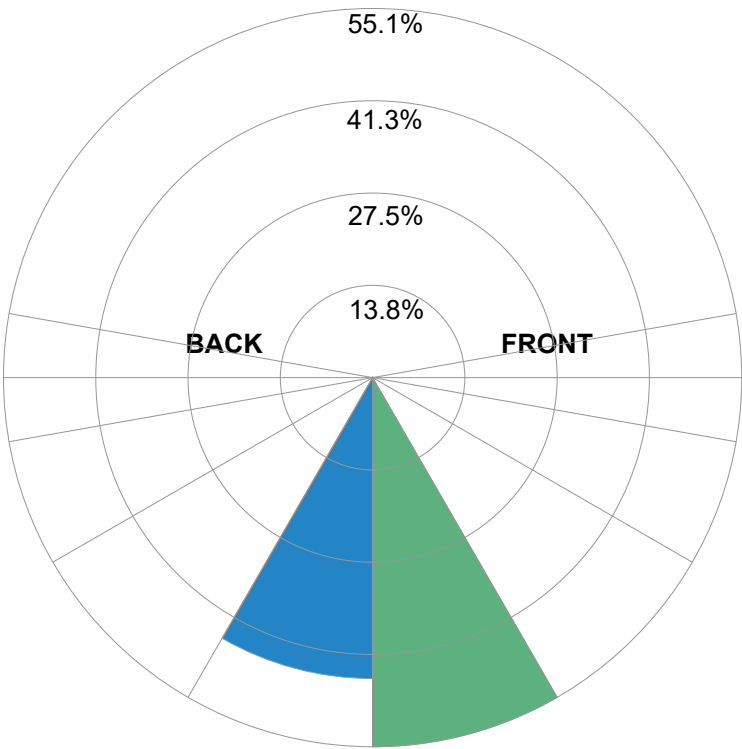


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	475.6	lm	55.1%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	387.7	lm	44.9%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	864	lm	100%
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n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

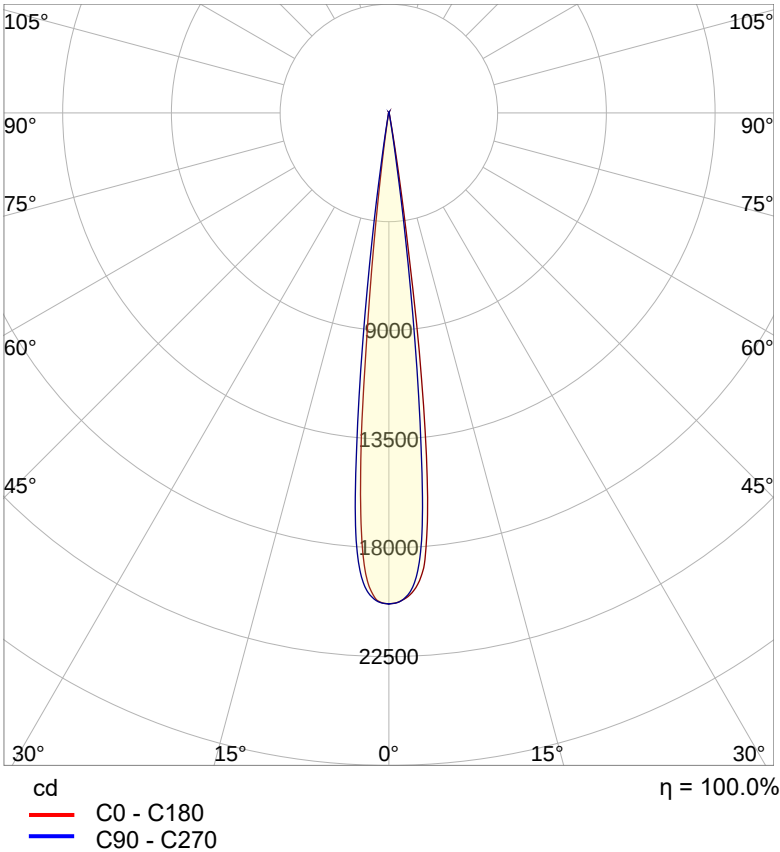
QuikBeam_OutputGain_Enabled_HotBeam_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

900 lm – 0% / 100%
n/a lm/W
20312 cd
4000 K
CRI 0.0

Polar light distribution diagram

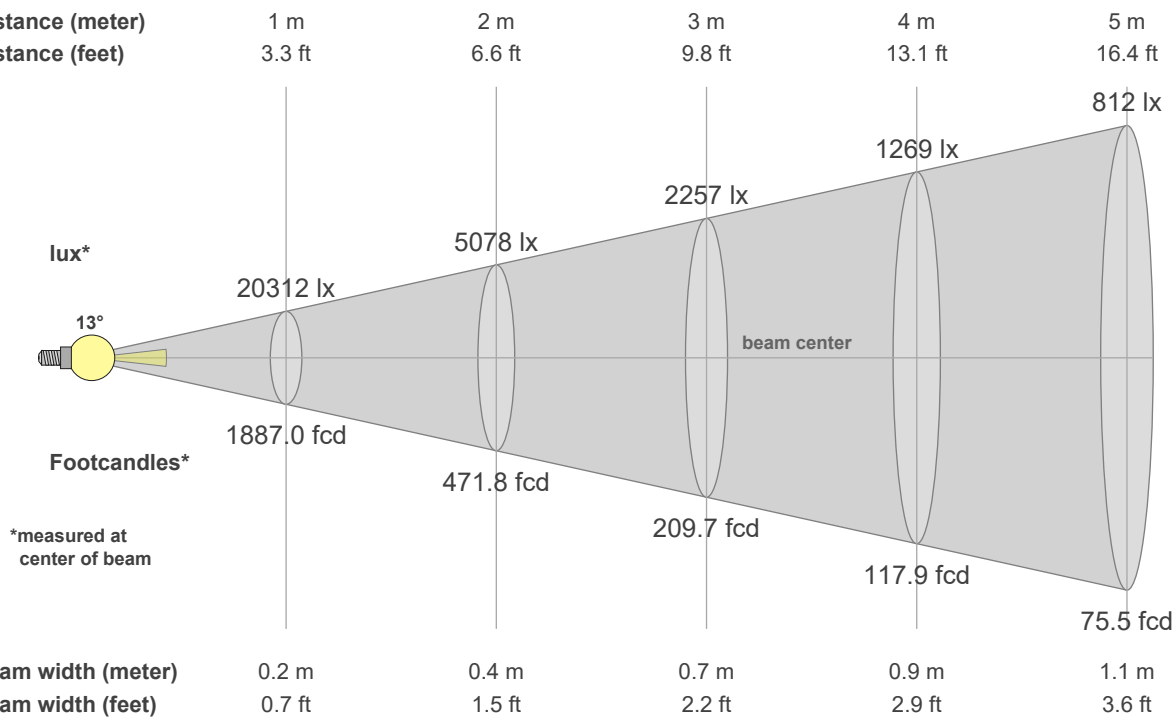


Test report

Light measurement results

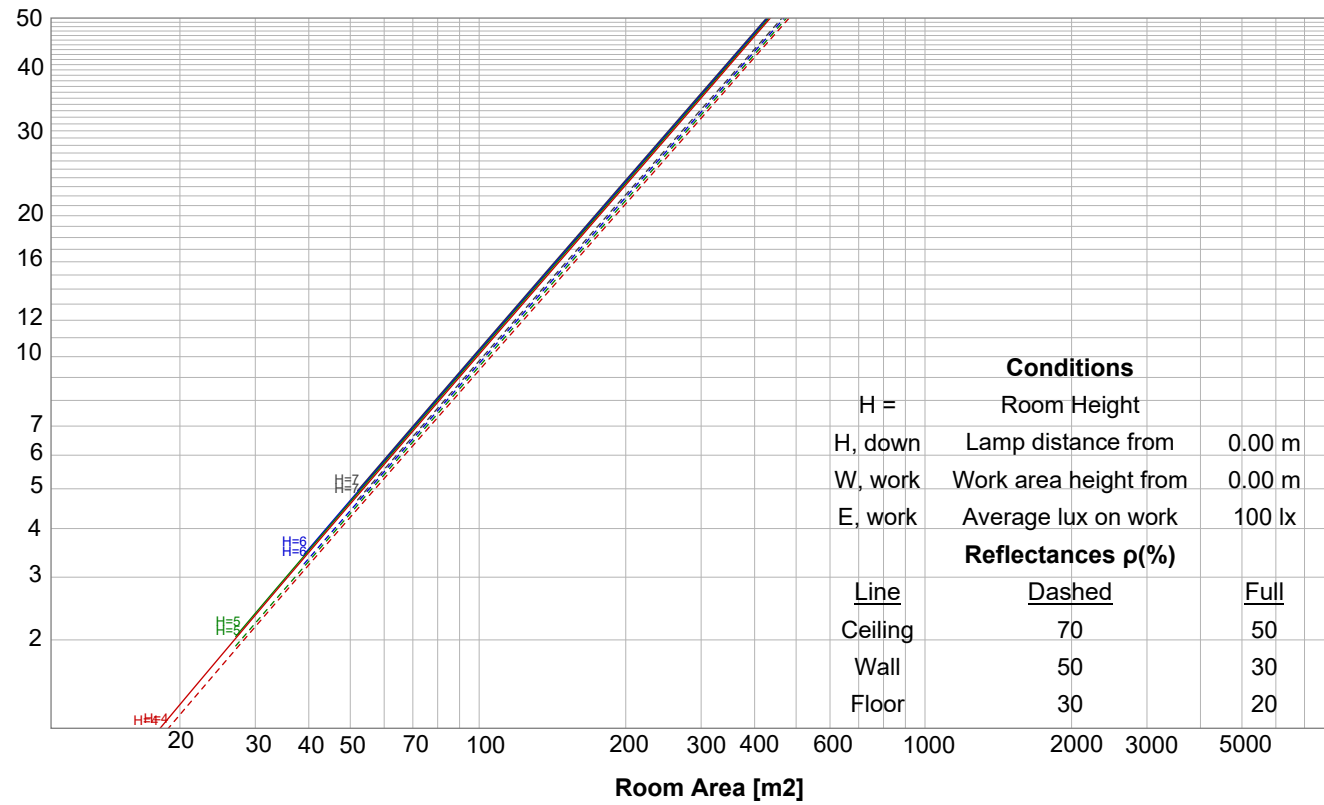
Print date 10/9/2025

Beam details

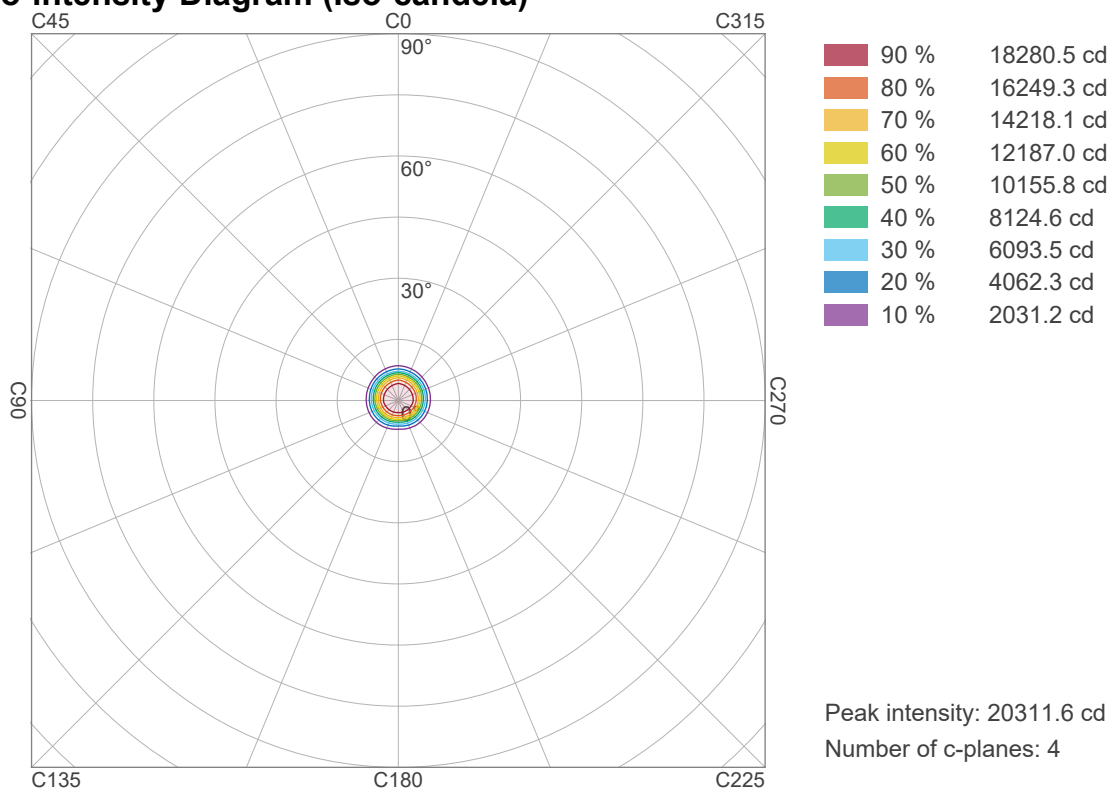


Luminaire budgetary diagram

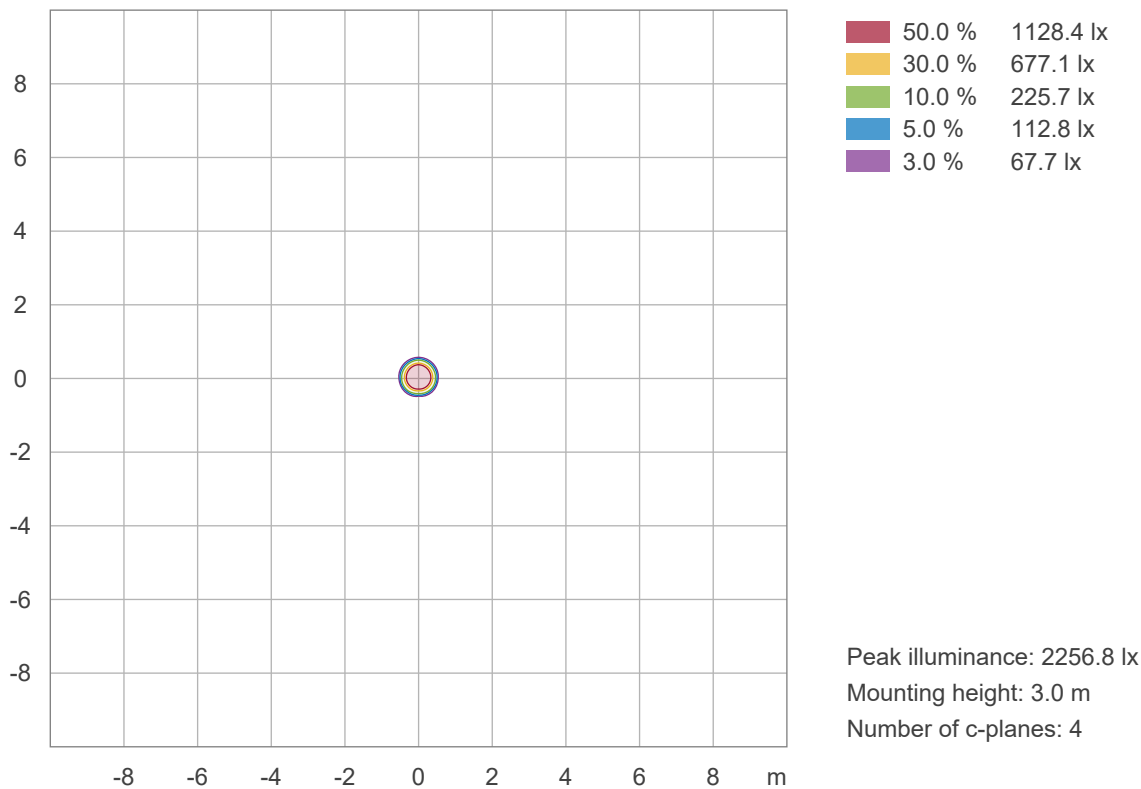
LAMPS (number of lamps)



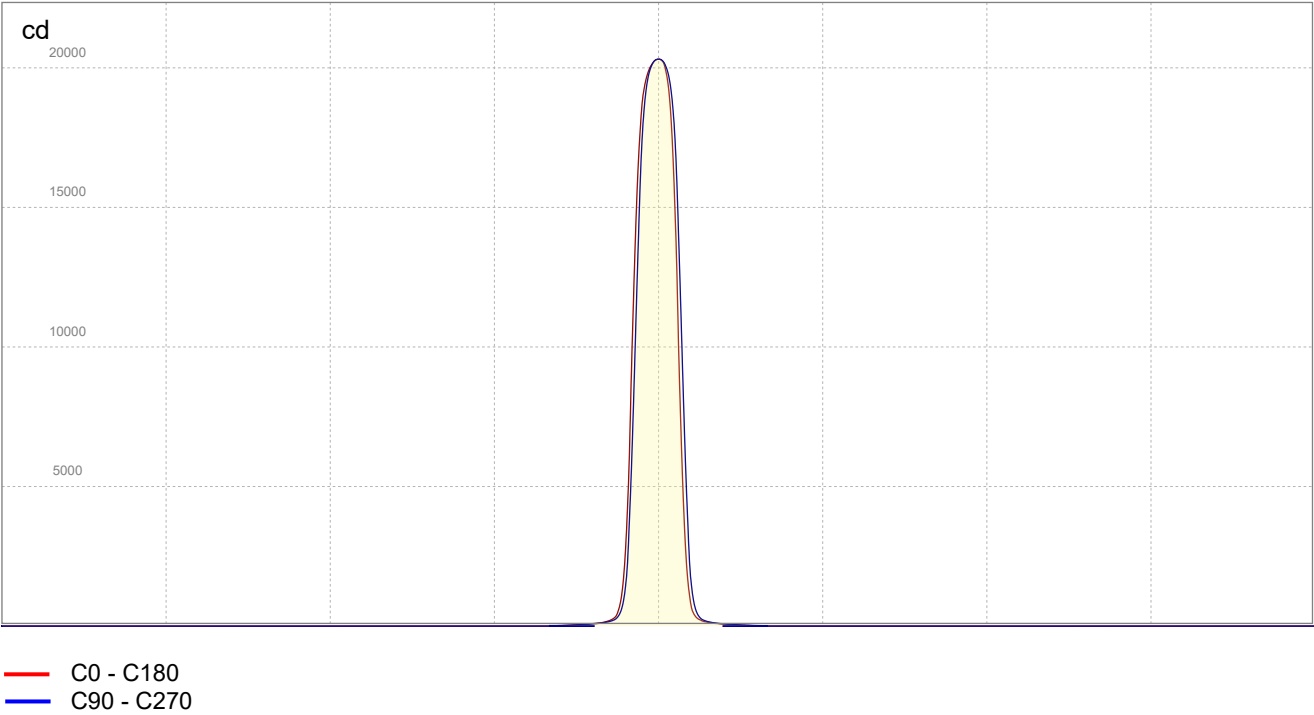
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

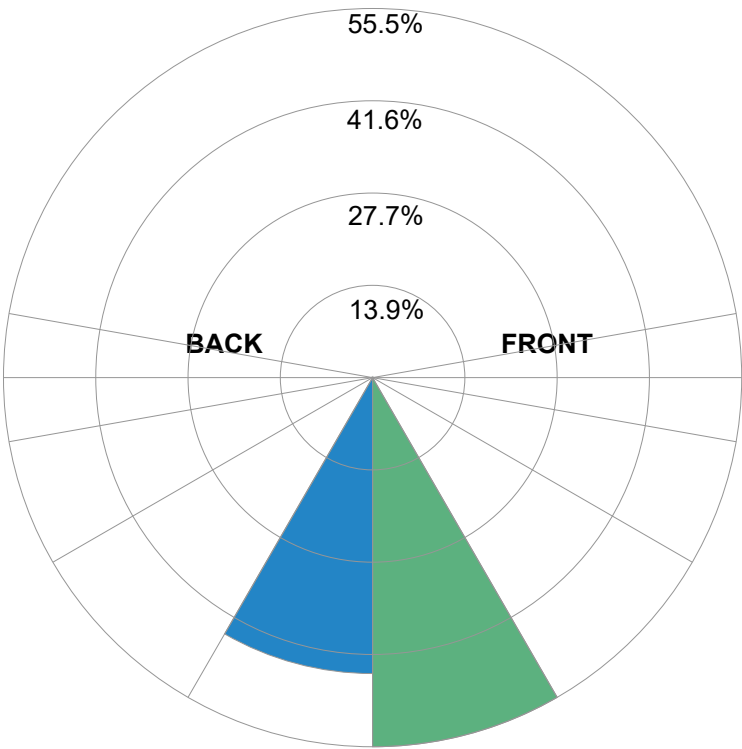


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	499.6	lm	55.5%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	400.5	lm	44.5%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	900	lm	100%
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Spectrometer Manufacturer and Model
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n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

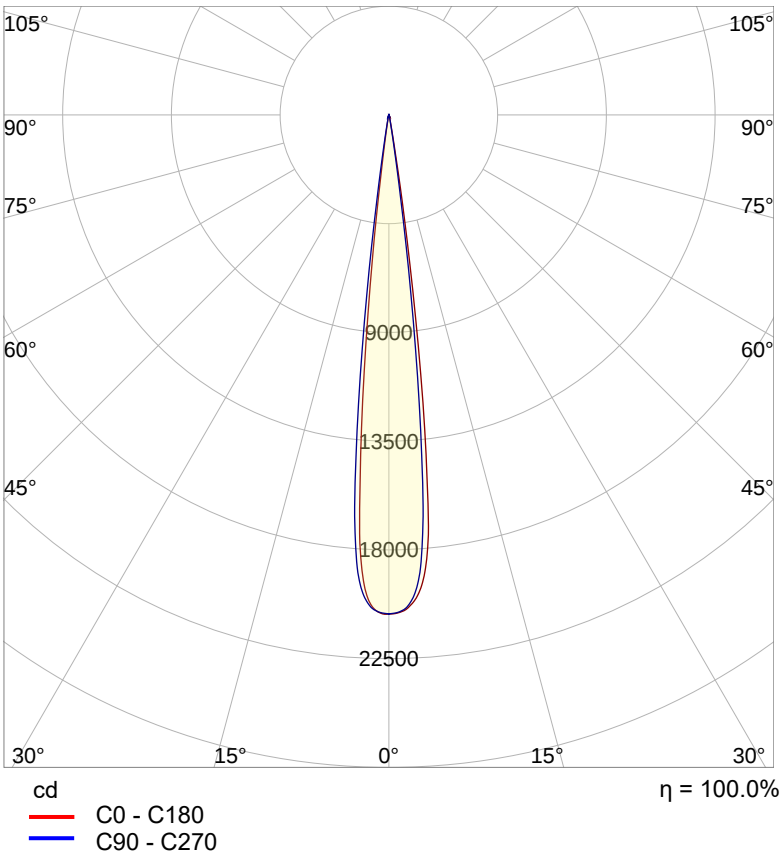
QuikBeam_OutputGain_Enabled_HotBeam_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

918 lm – 0% / 100%
n/a lm/W
20663 cd
5500 K
CRI 0.0

Polar light distribution diagram

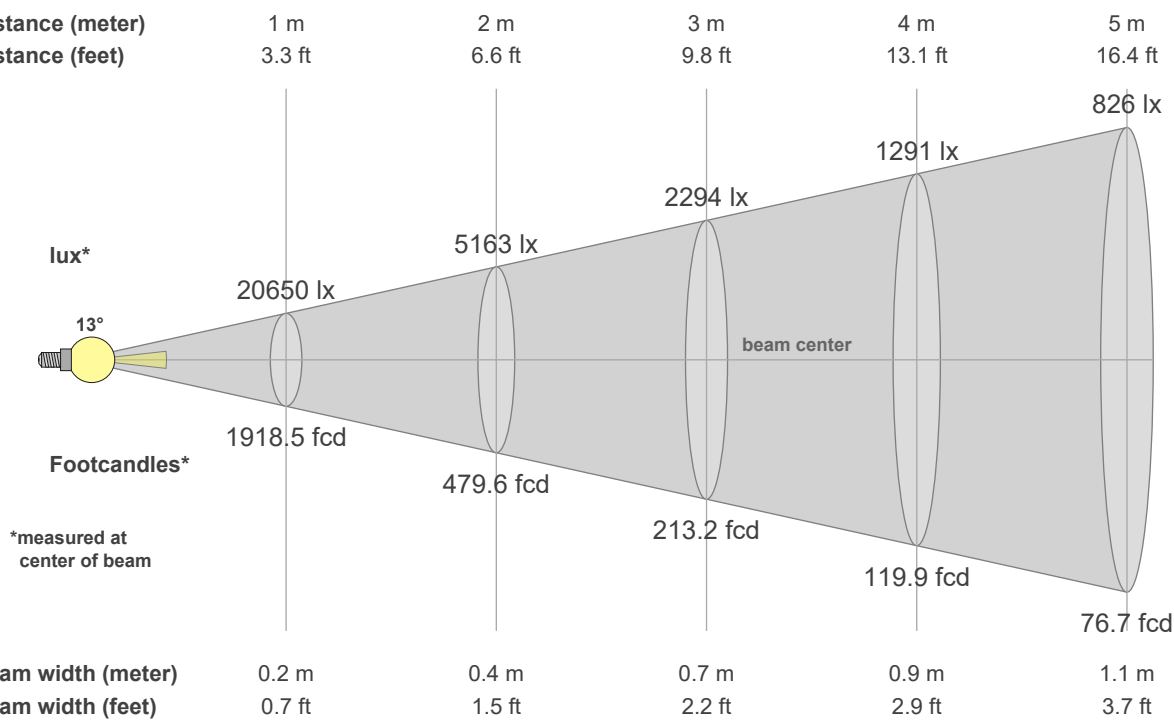


Test report

Light measurement results

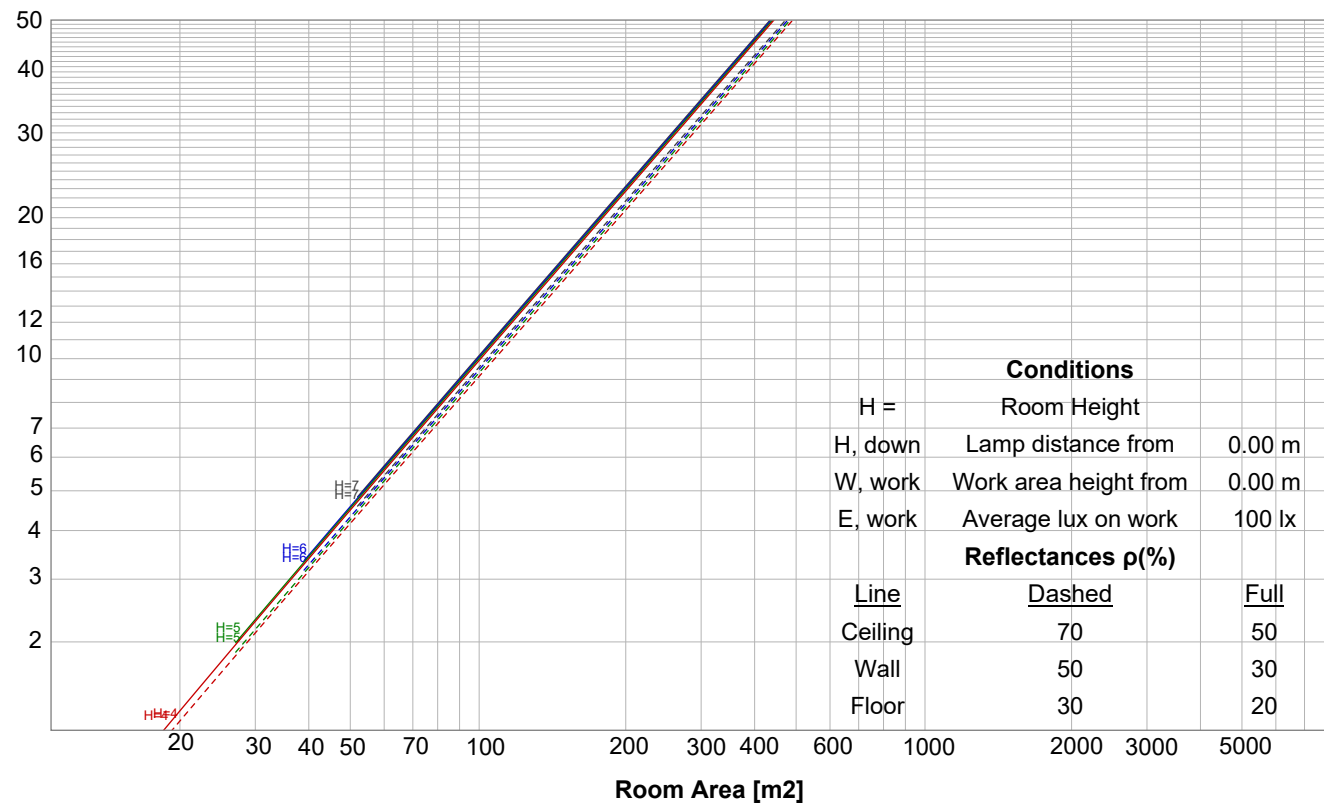
Print date 10/9/2025

Beam details

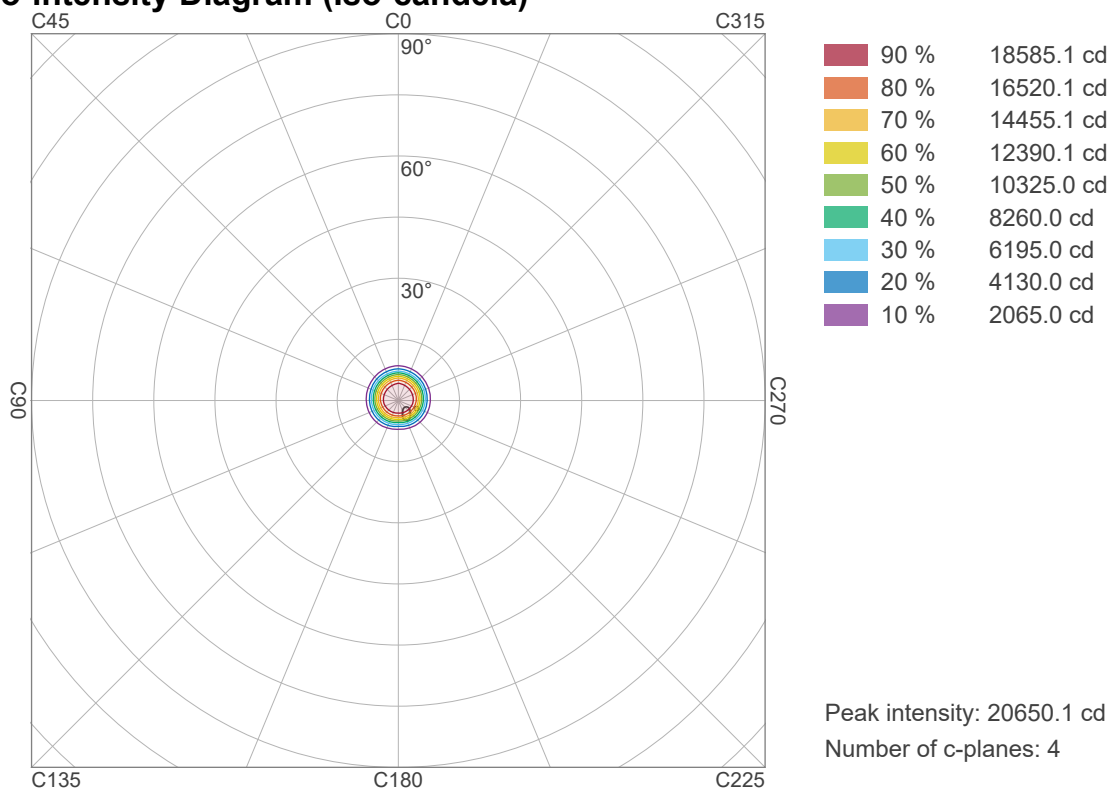


Luminaire budgetary diagram

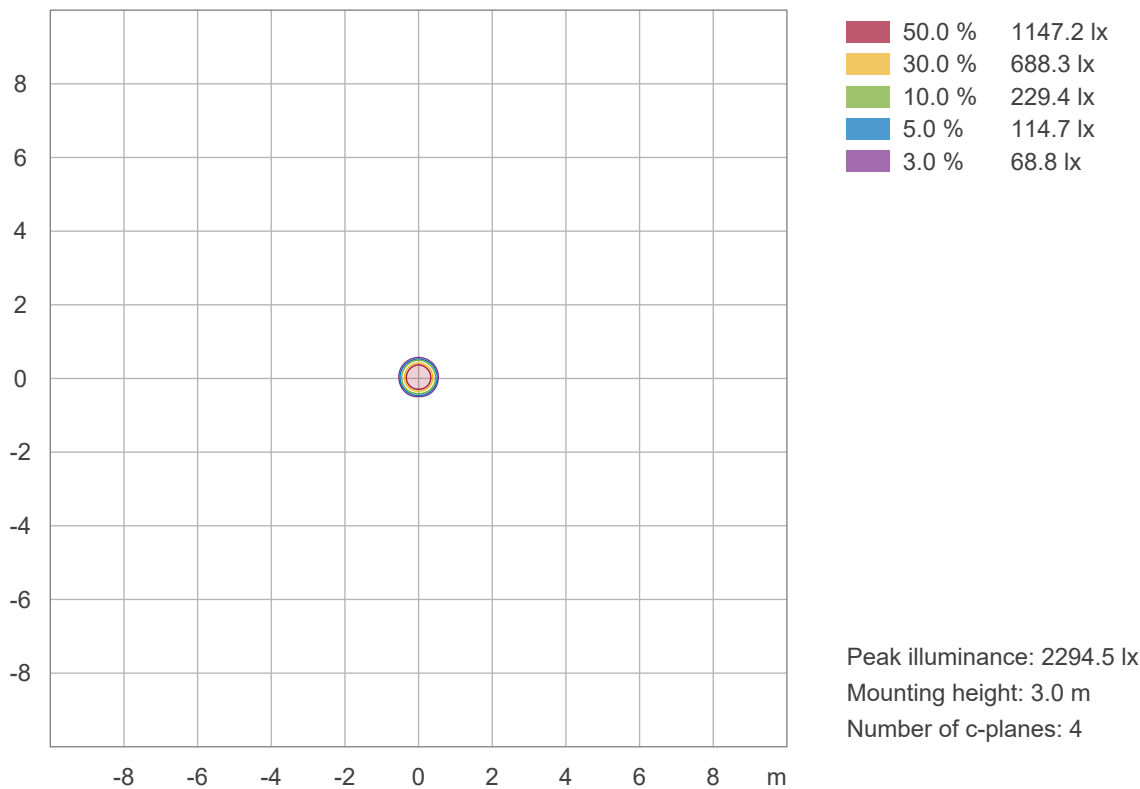
LAMPS (number of lamps)



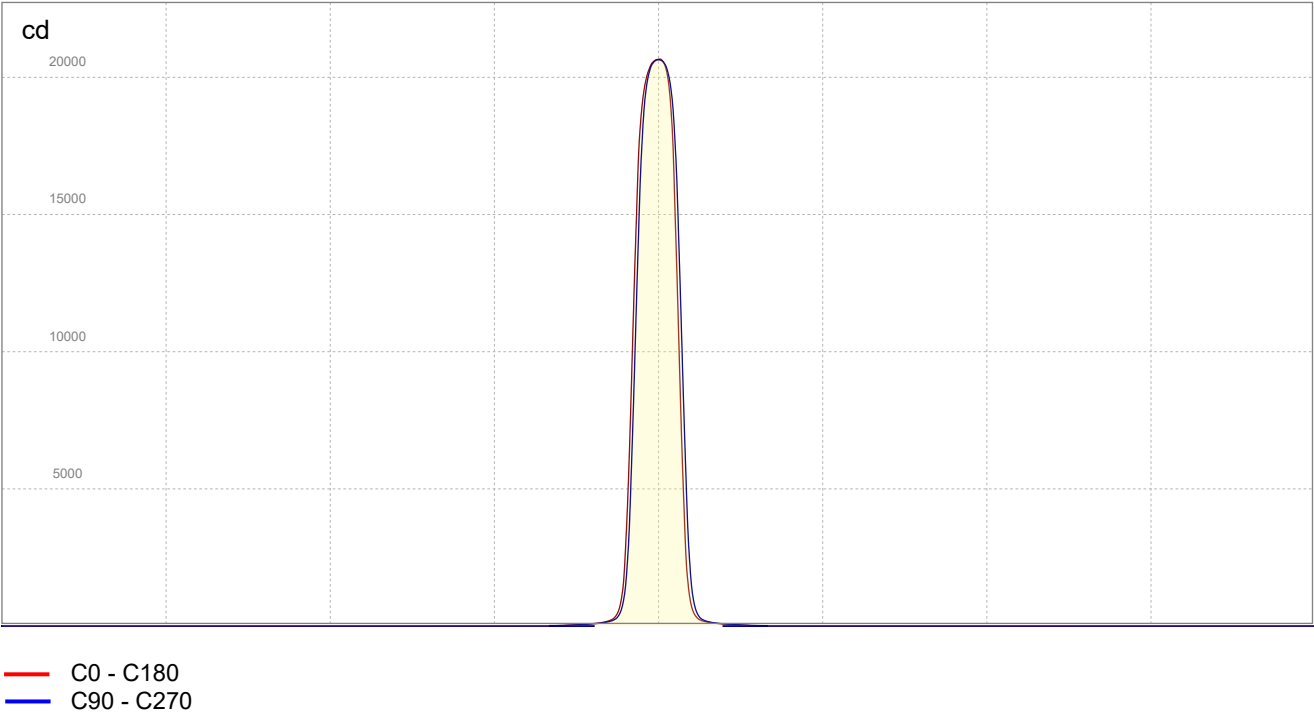
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

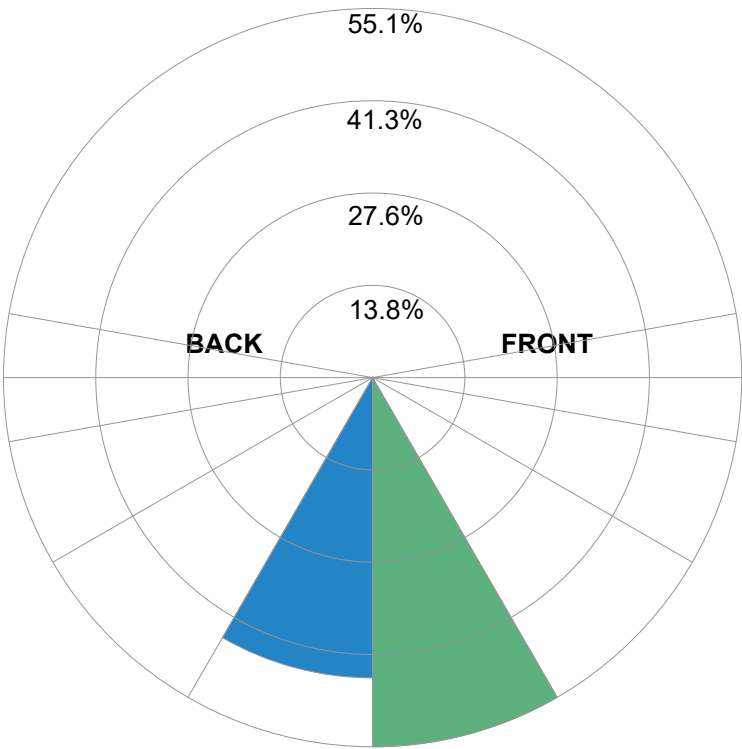


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	505.9	lm	55.1%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	411.5	lm	44.8%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	918	lm	100%
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Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

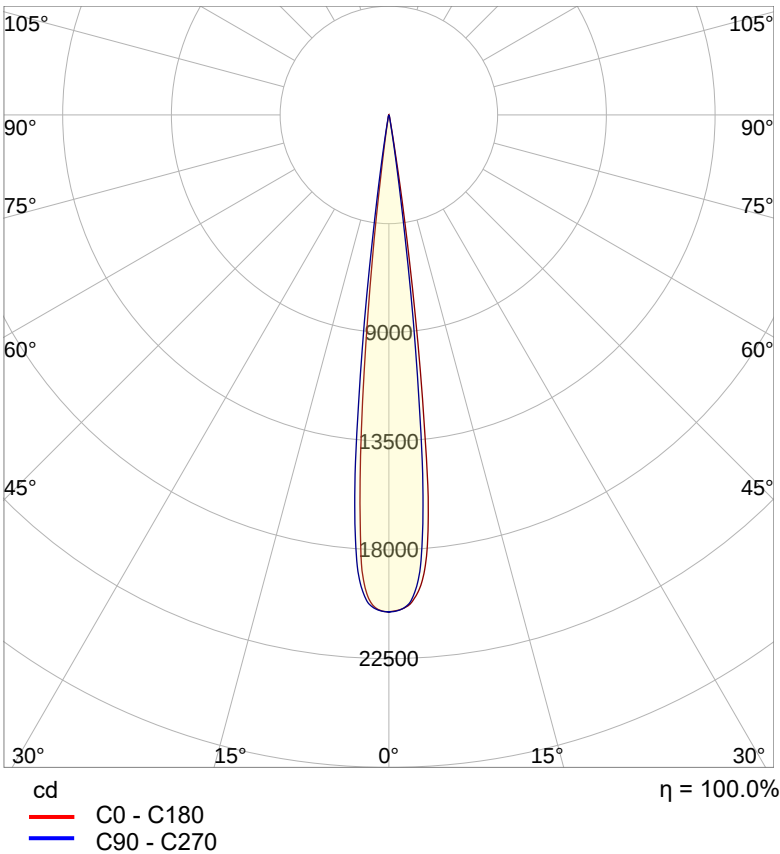
QuikBeam_OutputGain_Enabled_HotBeam_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

915 lm – 0% / 100%
n/a lm/W
20564 cd
6500 K
CRI 0.0

Polar light distribution diagram

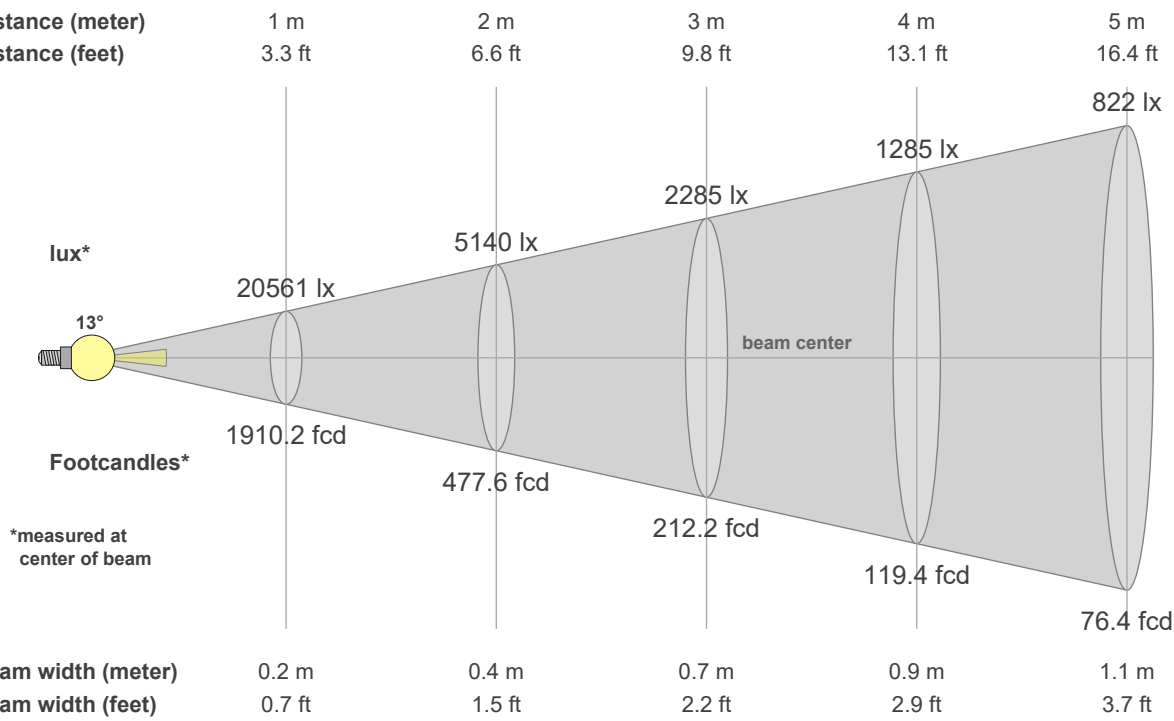


Test report

Light measurement results

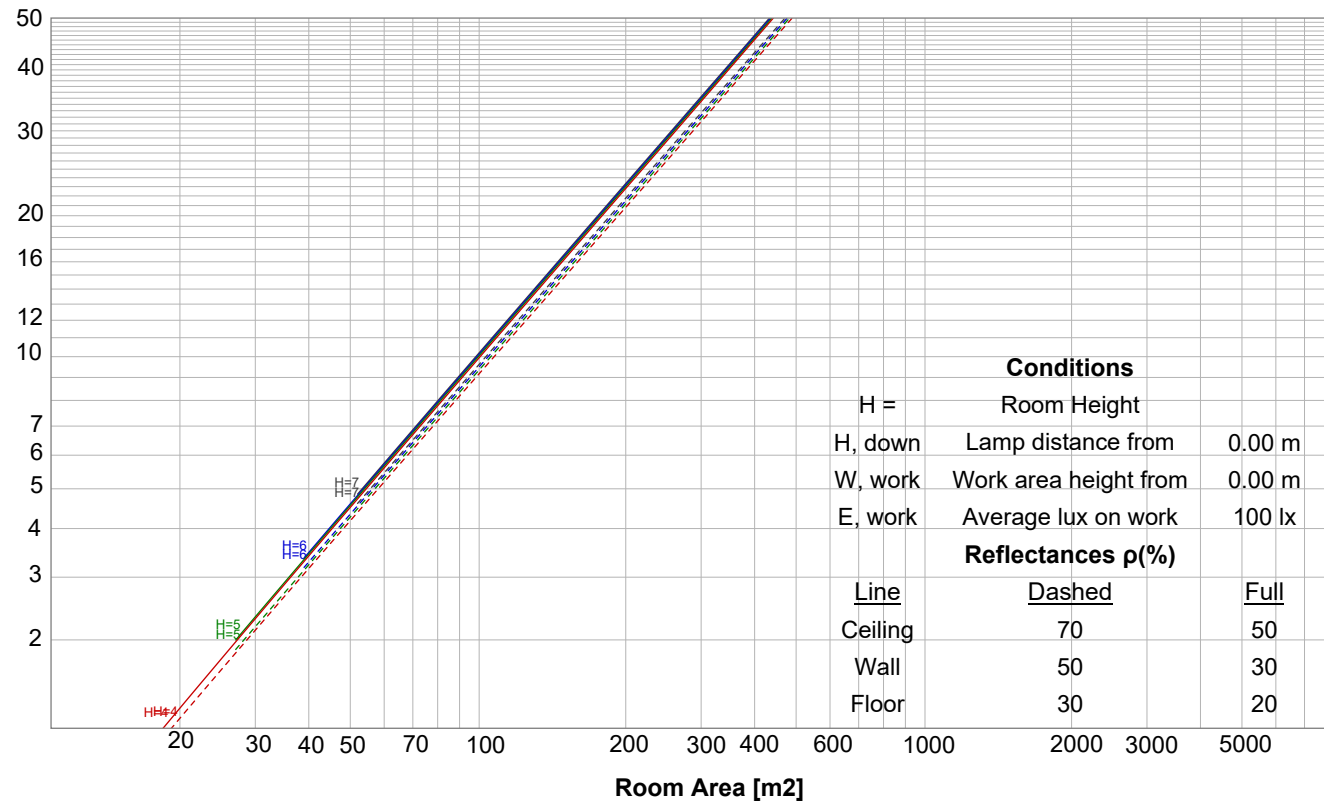
Print date 10/9/2025

Beam details

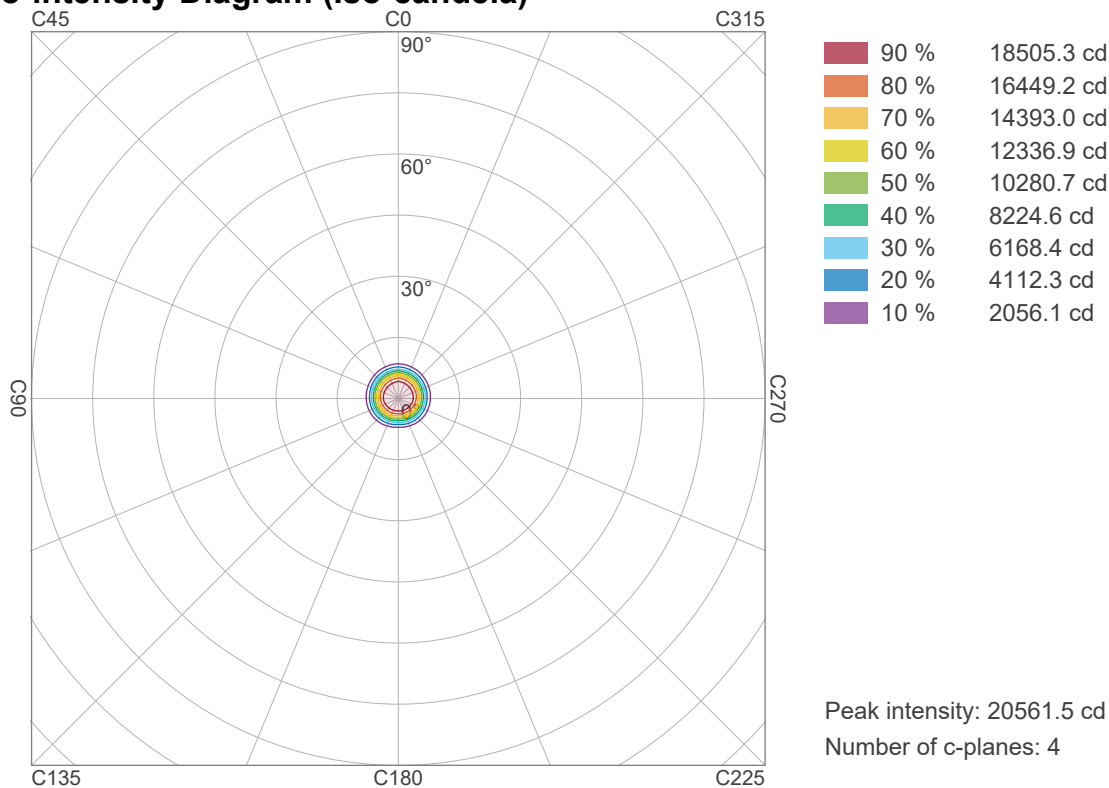


Luminaire budgetary diagram

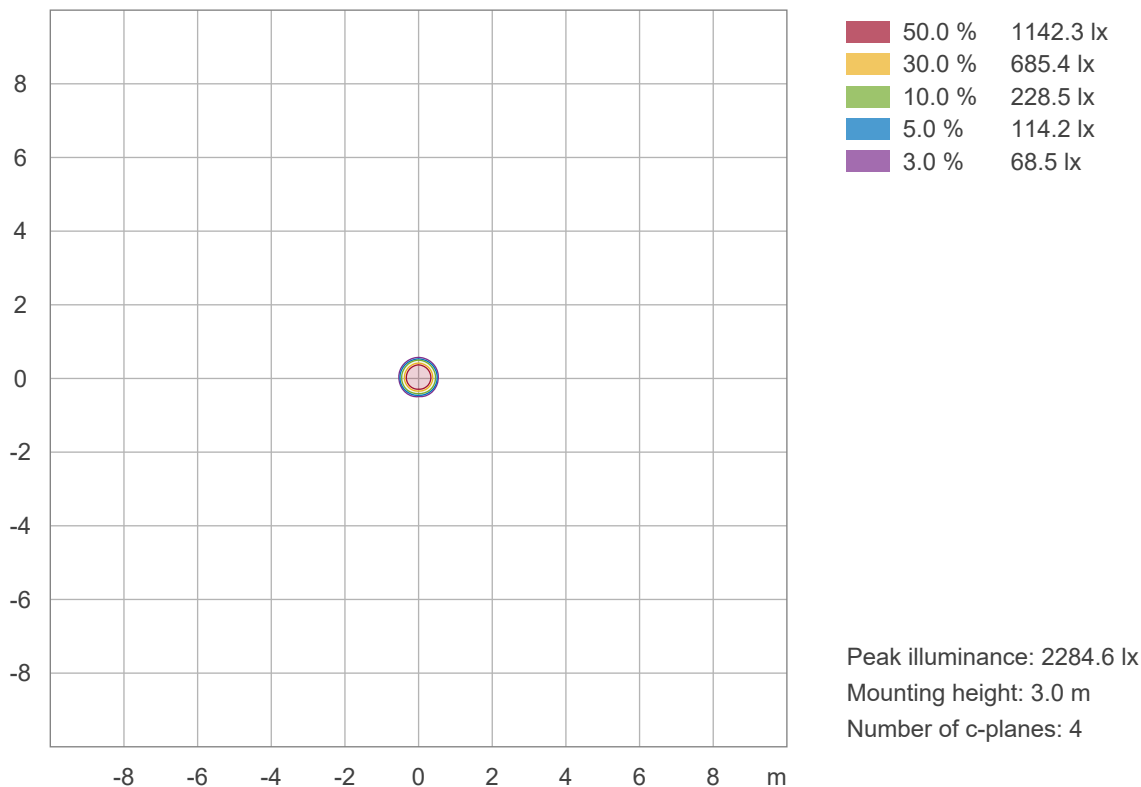
LAMPS (number of lamps)



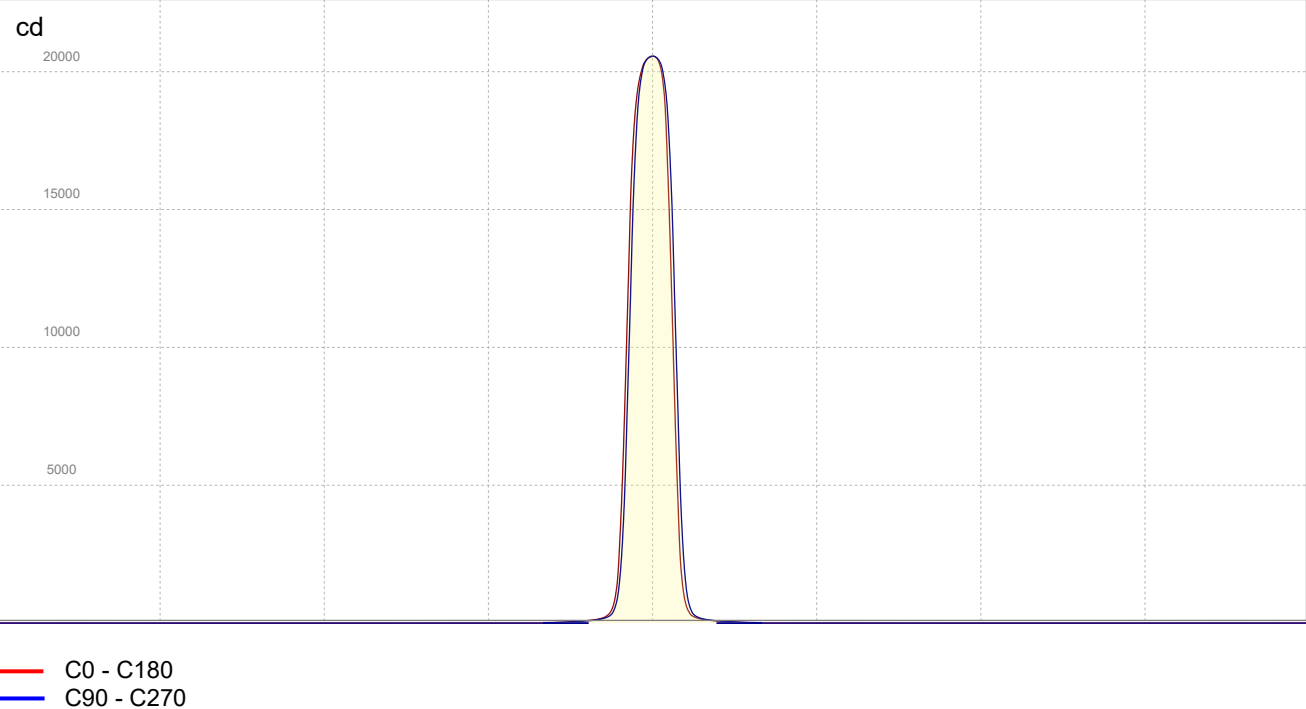
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

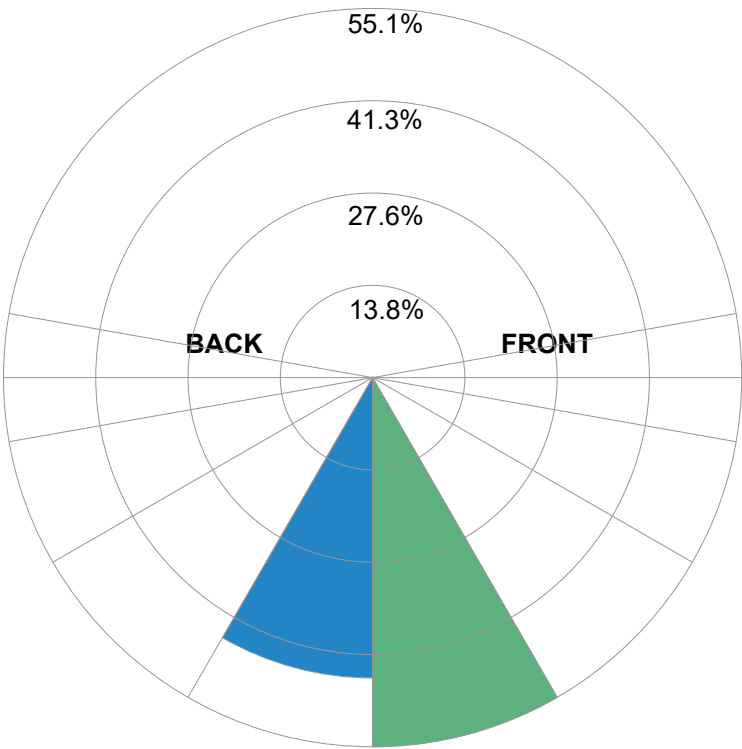


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	504.2	lm	55.1%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	410.2	lm	44.8%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	915	lm	100%
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Laboratory and Equipment

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Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

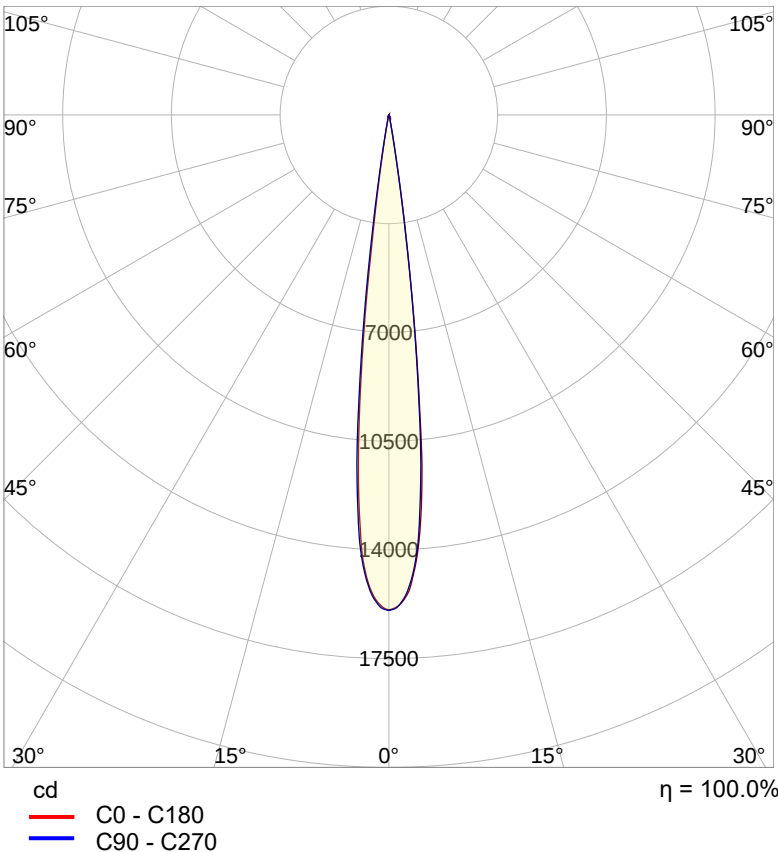
QuikBeam_OutputGain_Enabled_13D_2700K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

732 lm – 0% / 100%
n/a lm/W
15946 cd
2700 K
CRI 0.0

Polar light distribution diagram

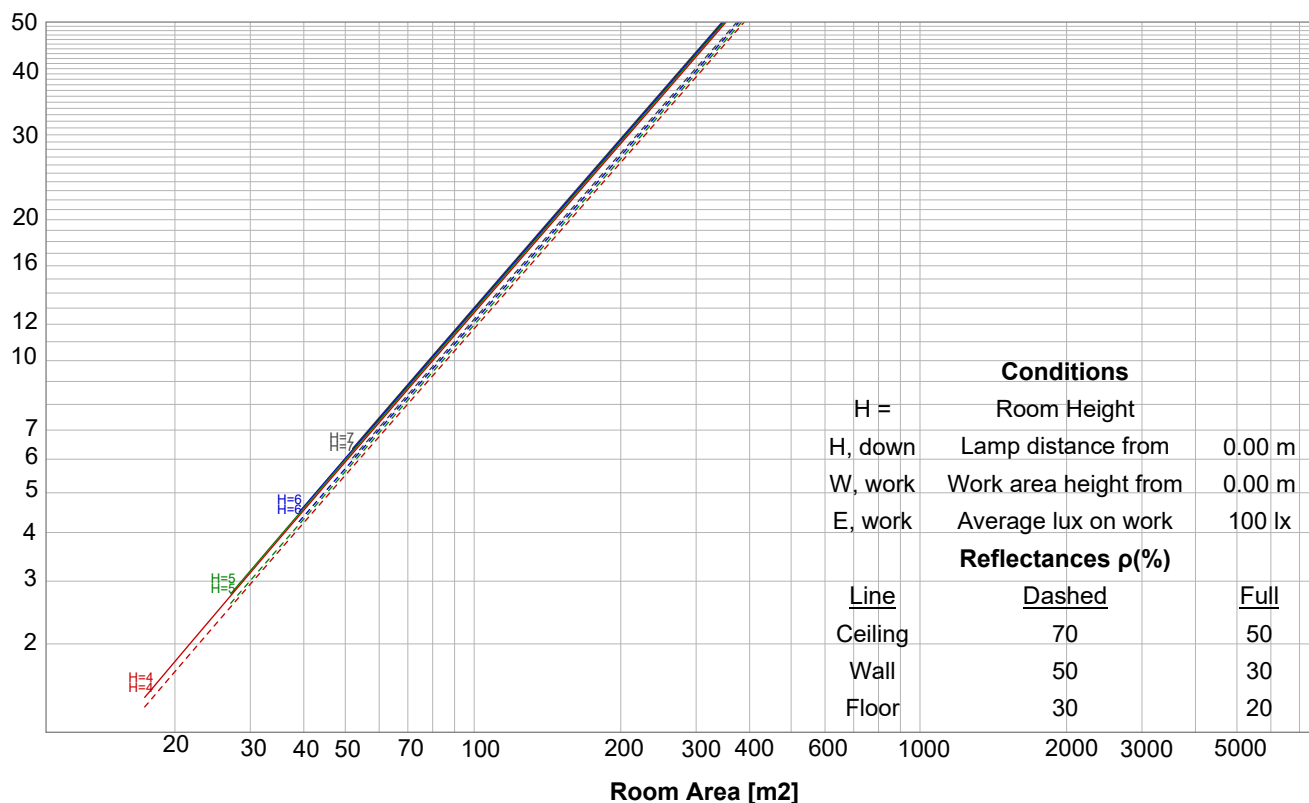


Print date 10/9/2025

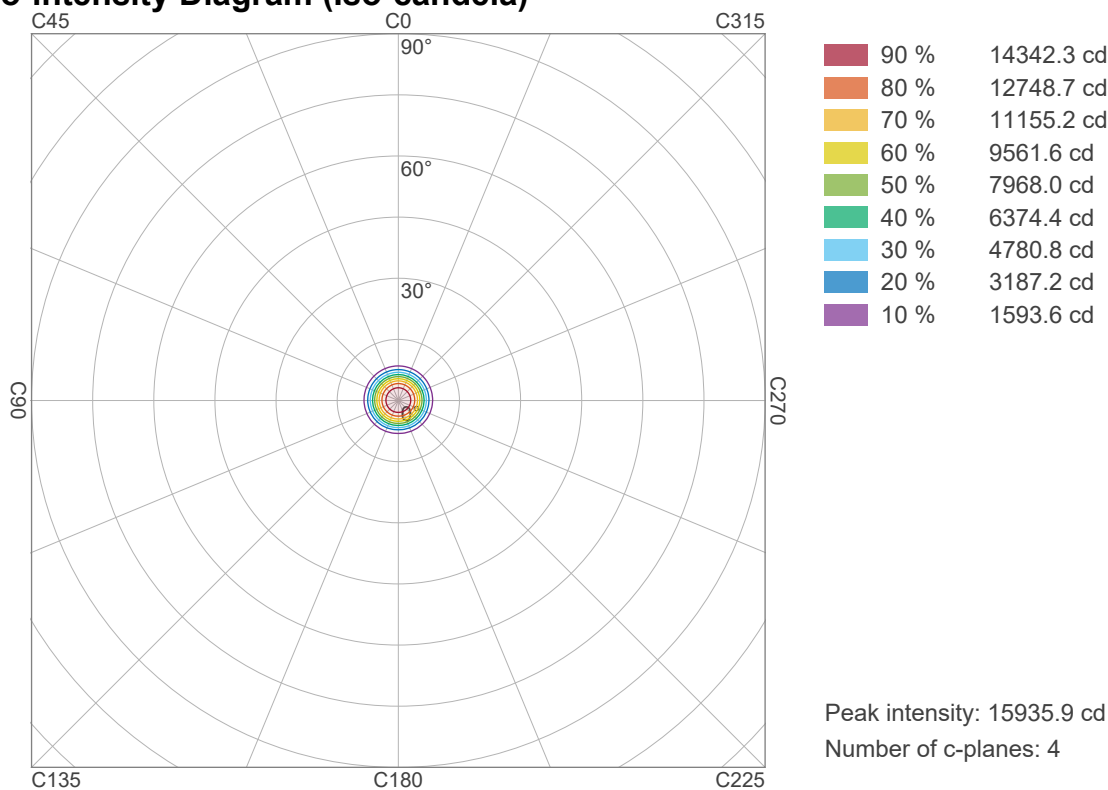
Distance (meter)	1 m	2 m	3 m	4 m	5 m
Distance (feet)	3.3 ft	6.6 ft	9.8 ft	13.1 ft	16.4 ft
lux*	15936 lx	3984 lx	1771 lx	996 lx	637 lx
Footcandles*	1480.5 fcd	370.1 fcd	164.5 fcd	92.5 fcd	59.2 fcd
Beam width (meter)	0.2 m	0.4 m	0.7 m	0.9 m	1.1 m
Beam width (feet)	0.7 ft	1.5 ft	2.2 ft	3 ft	3.7 ft

*measured at center of beam

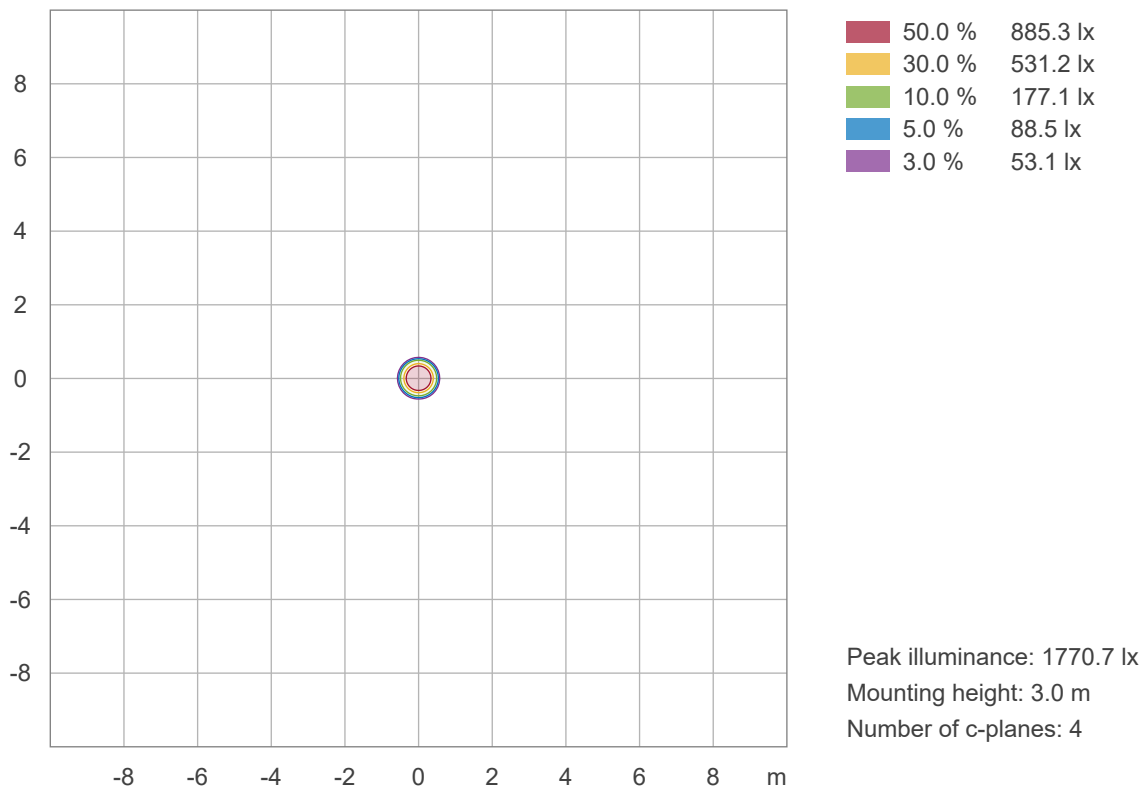
LAMPS (number of lamps)



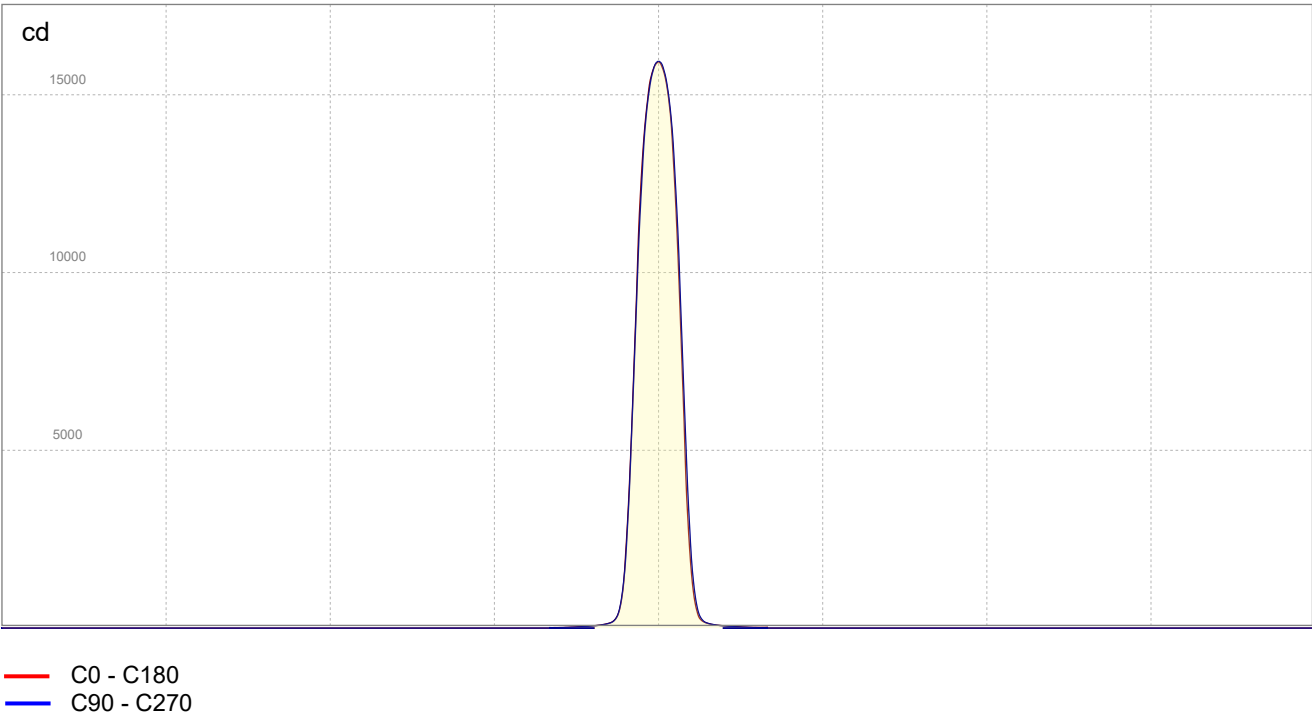
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

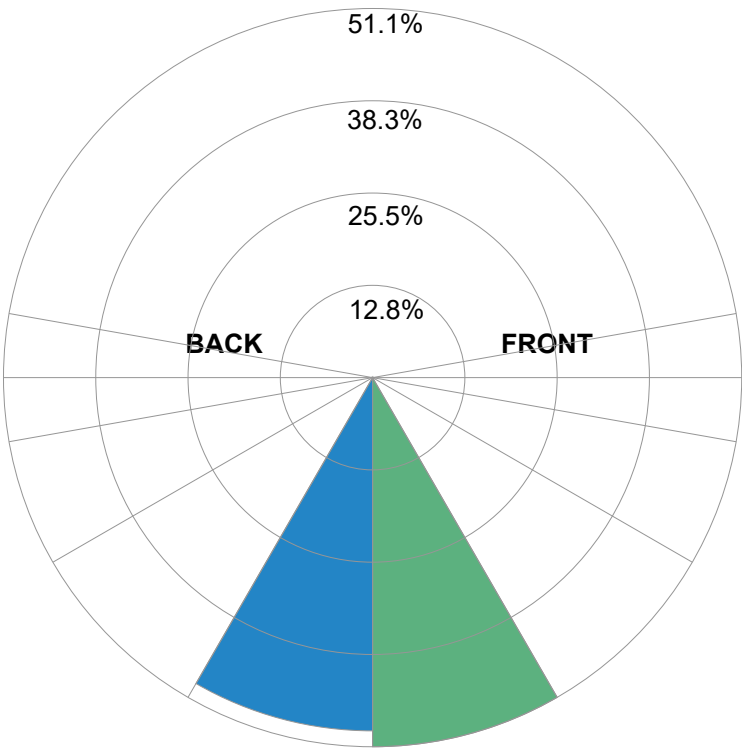


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	373.9	lm	51.1%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	357.8	lm	48.9%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	732	lm	100%
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Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

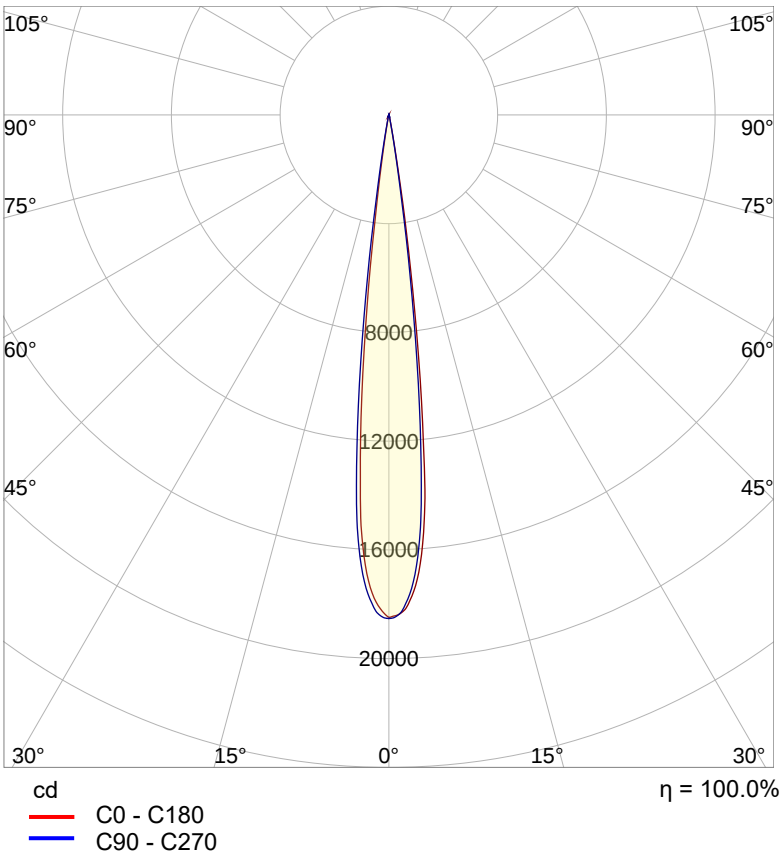
QuikBeam_OutputGain_Enabled_13D_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

852 lm – 0% / 100%
n/a lm/W
18522 cd
3200 K
CRI 0.0

Polar light distribution diagram

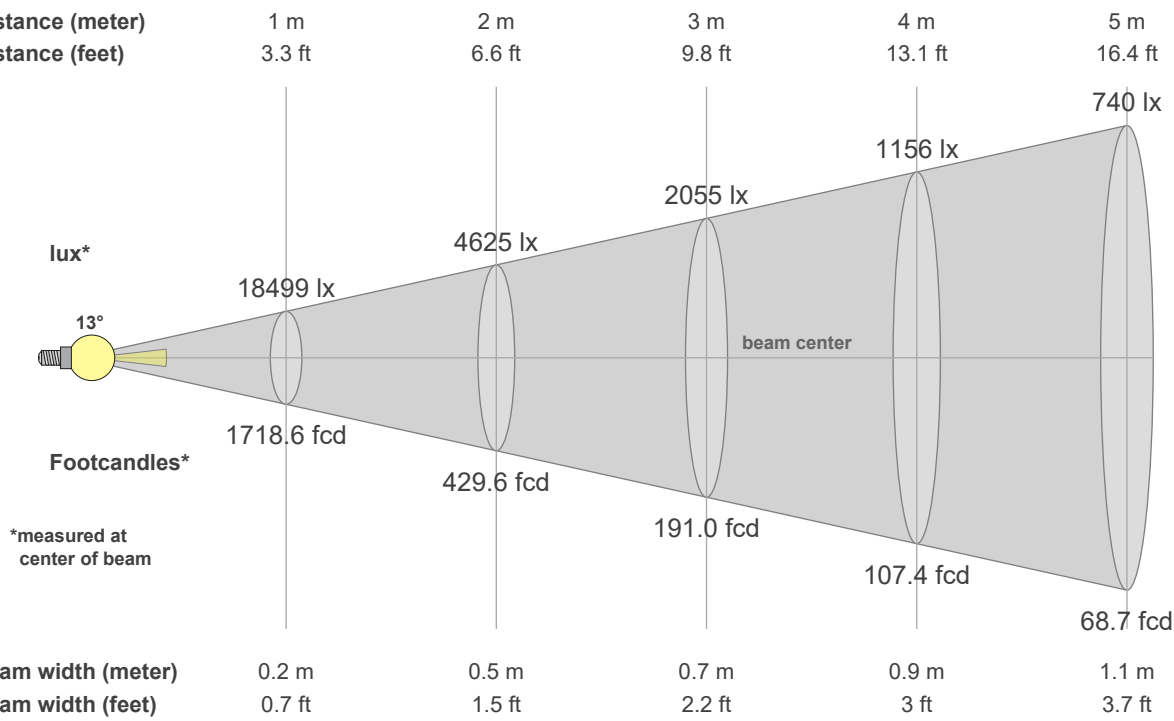


Test report

Light measurement results

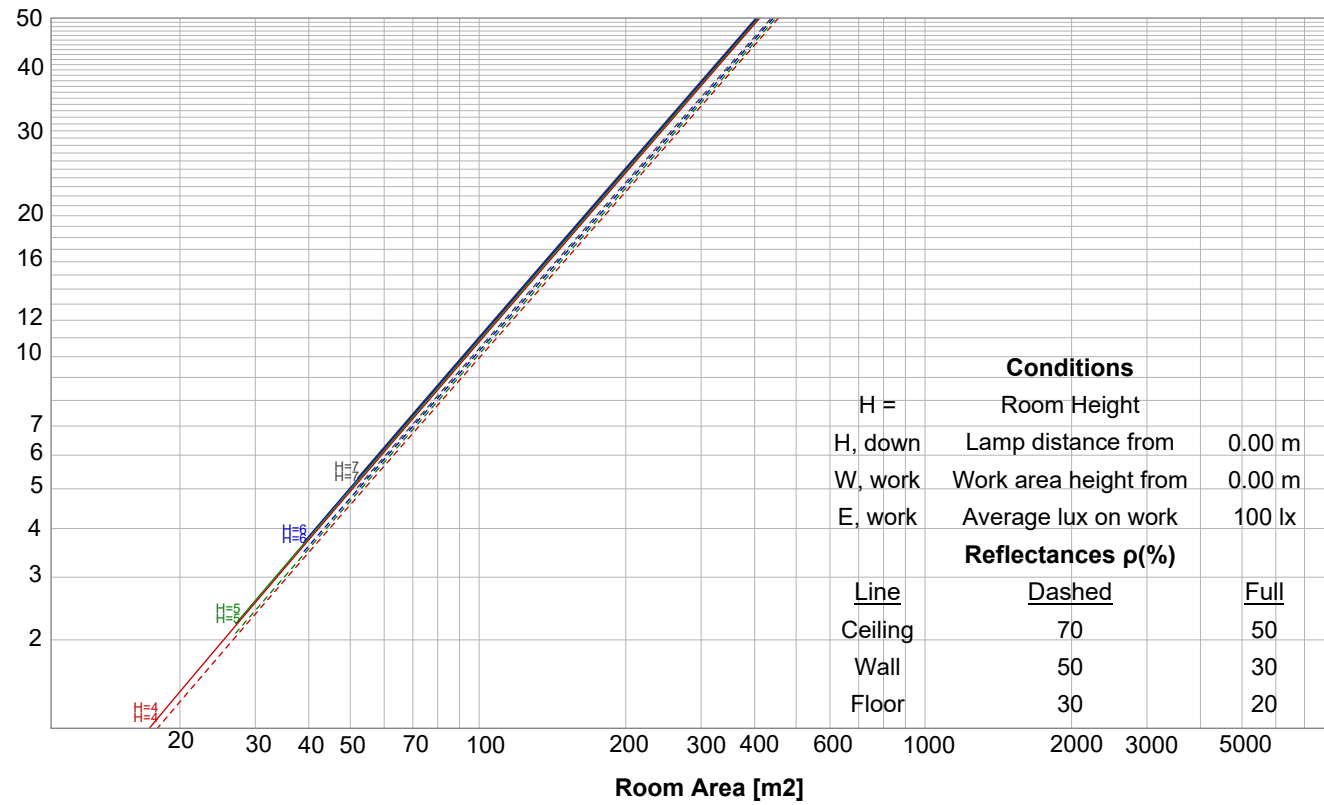
Print date 10/9/2025

Beam details

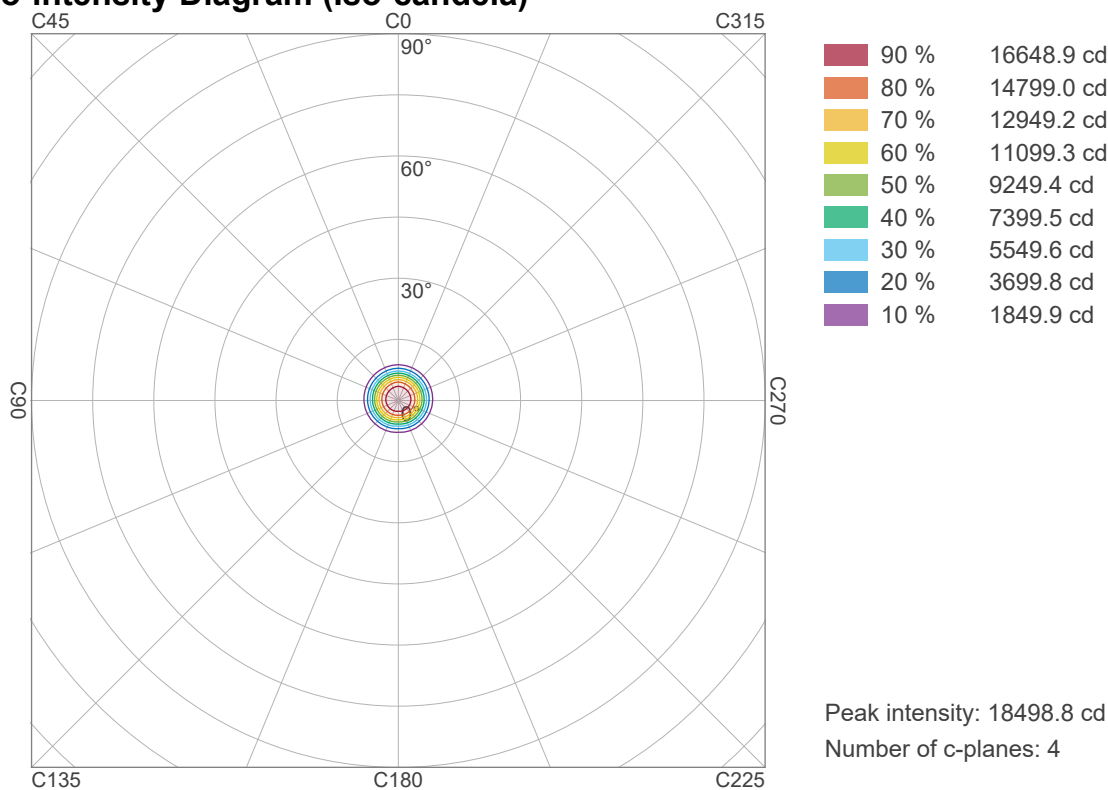


Luminaire budgetary diagram

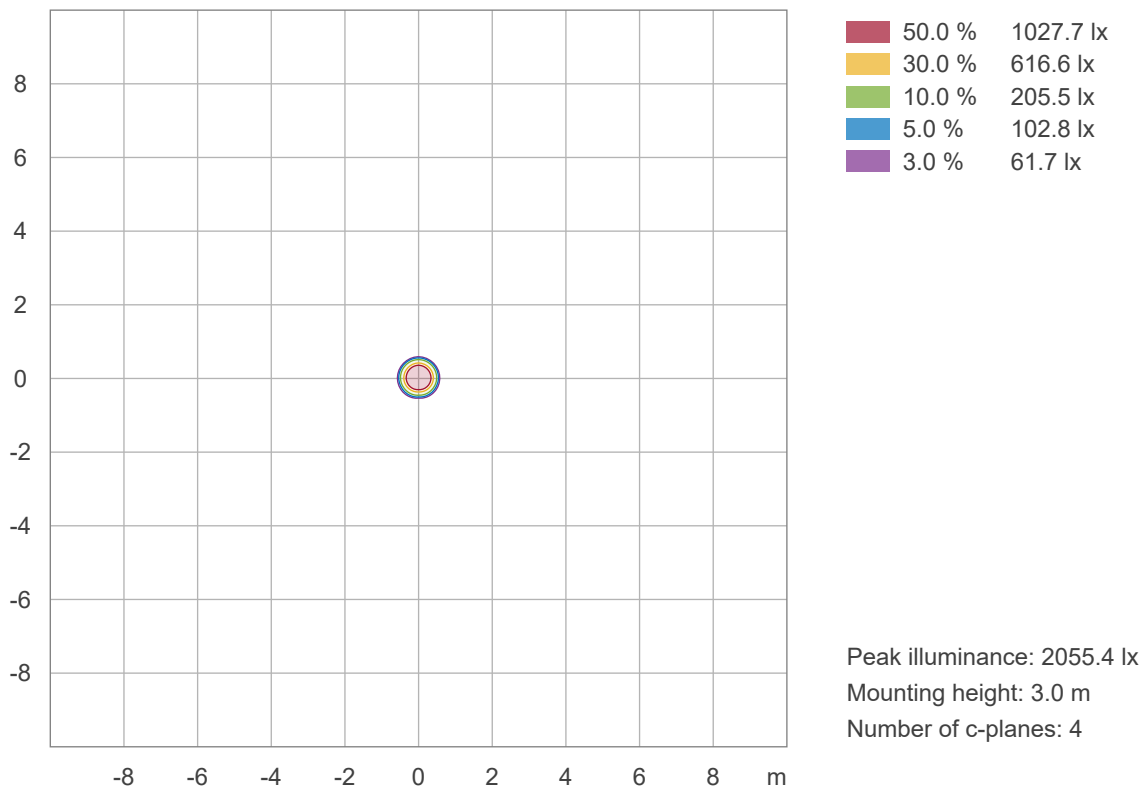
LAMPS (number of lamps)



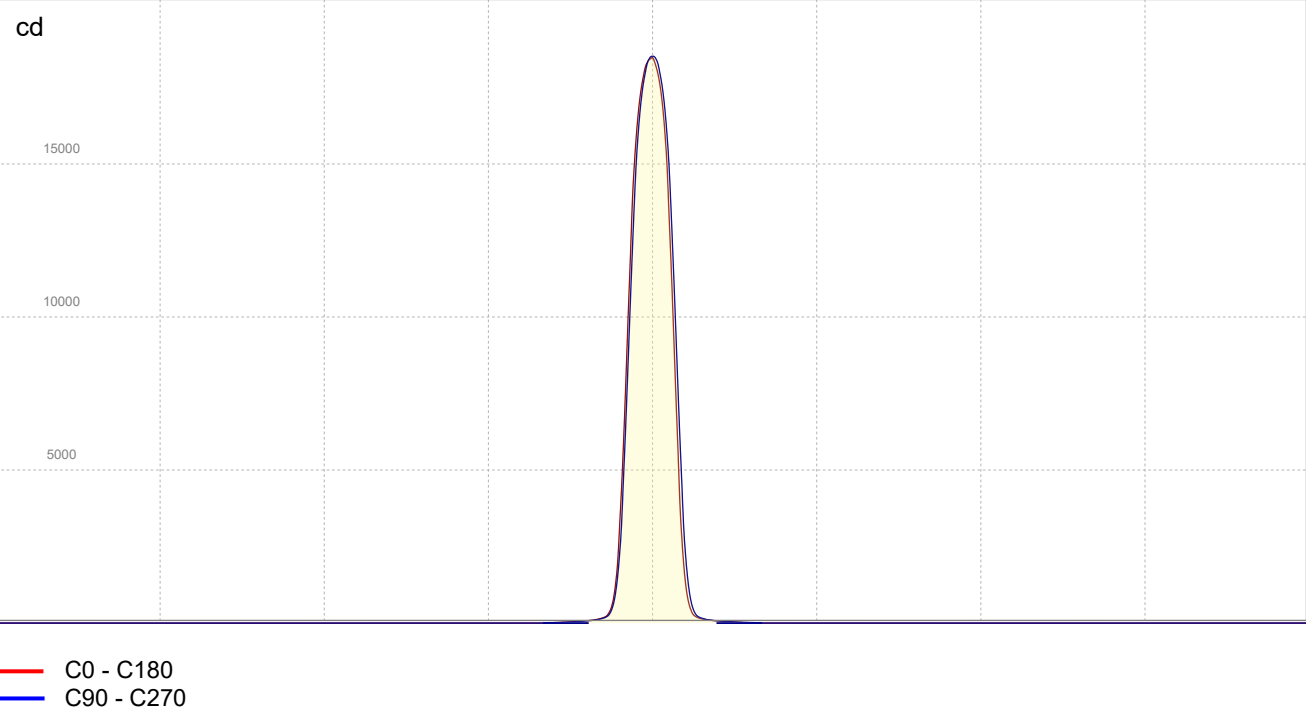
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

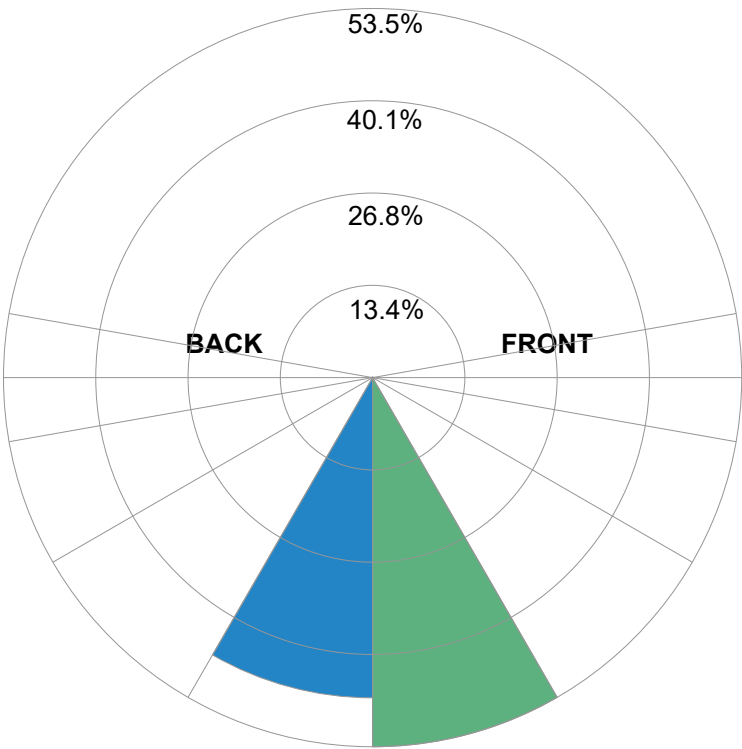


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light			
Low (0-30°)	456.1	lm	53.5%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%
Back Light			
Low (0-30°)	395.6	lm	46.4%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	852	lm	100%

Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

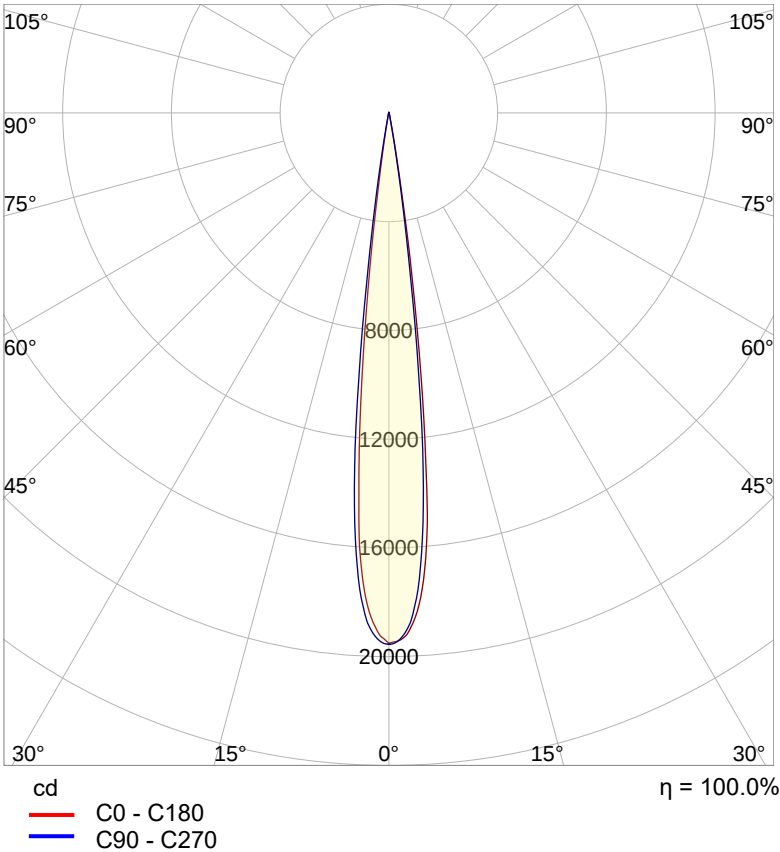
QuikBeam_OutputGain_Enabled_13D_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

902 lm – 0% / 100%
n/a lm/W
19545 cd
4000 K
CRI 0.0

Polar light distribution diagram

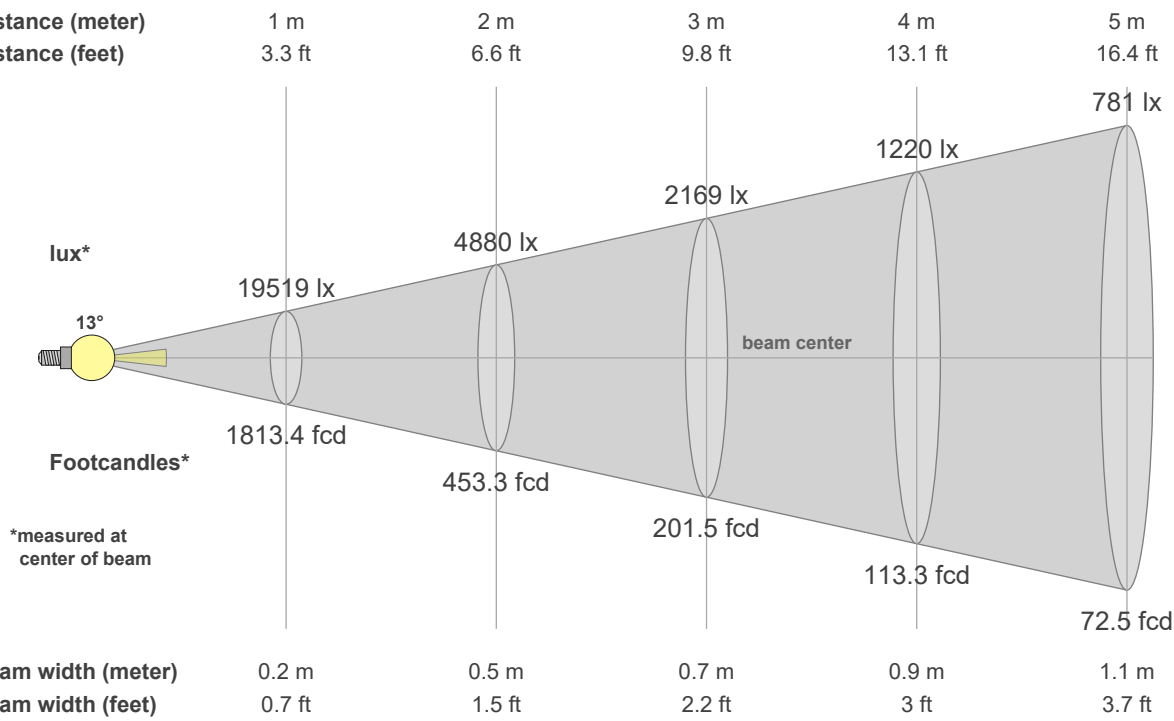


Test report

Light measurement results

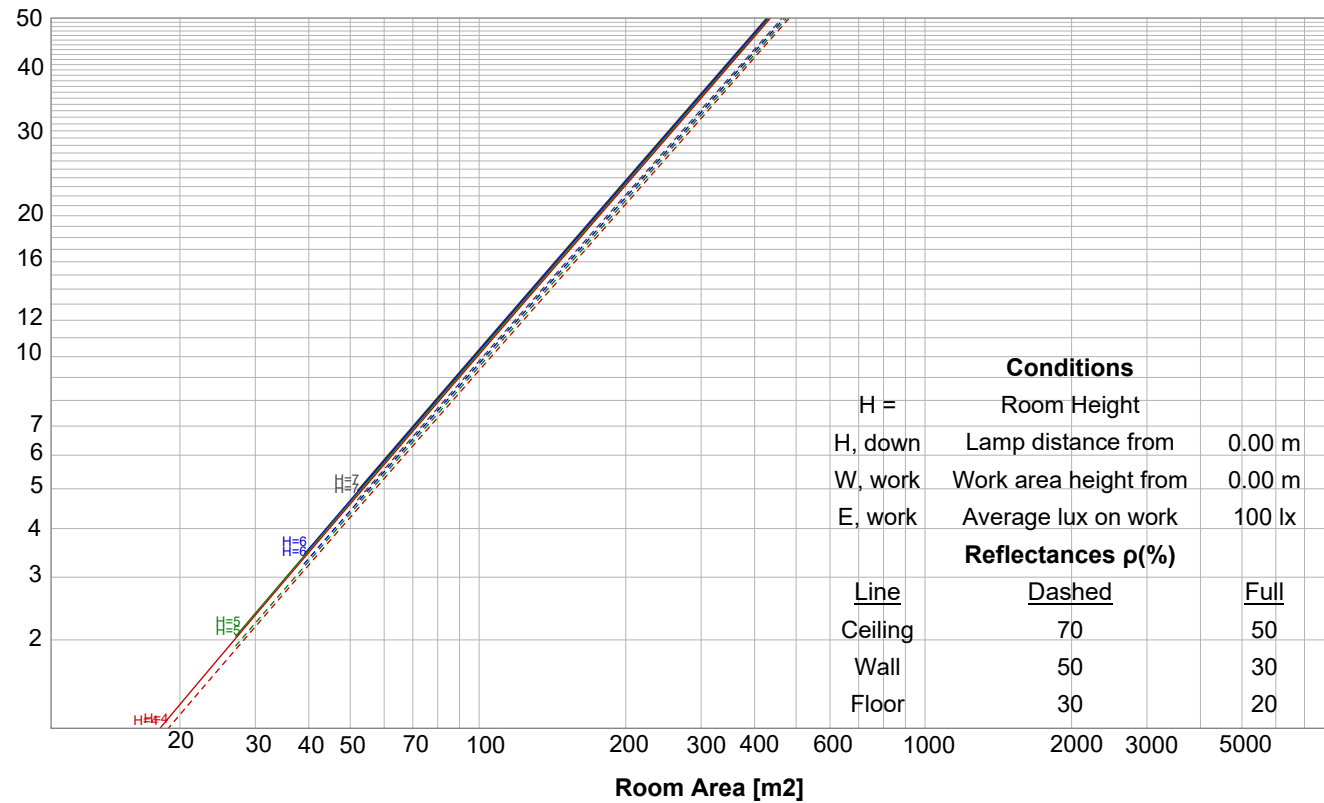
Print date 10/9/2025

Beam details

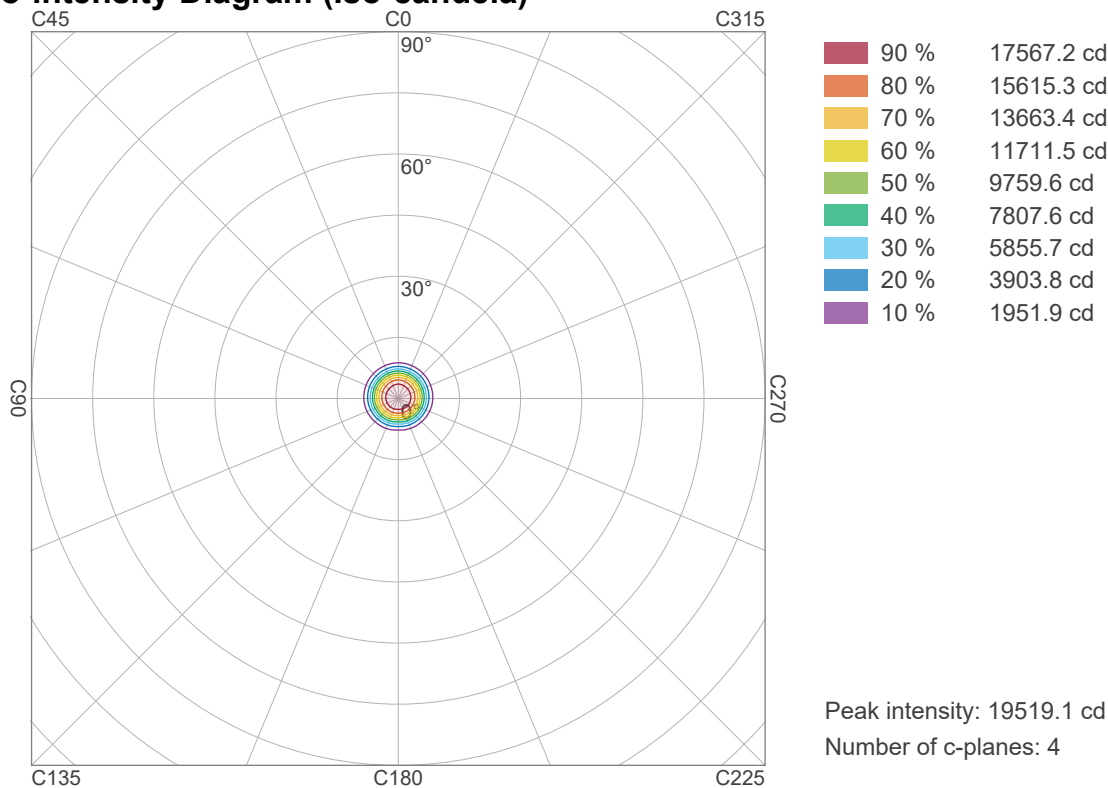


Luminaire budgetary diagram

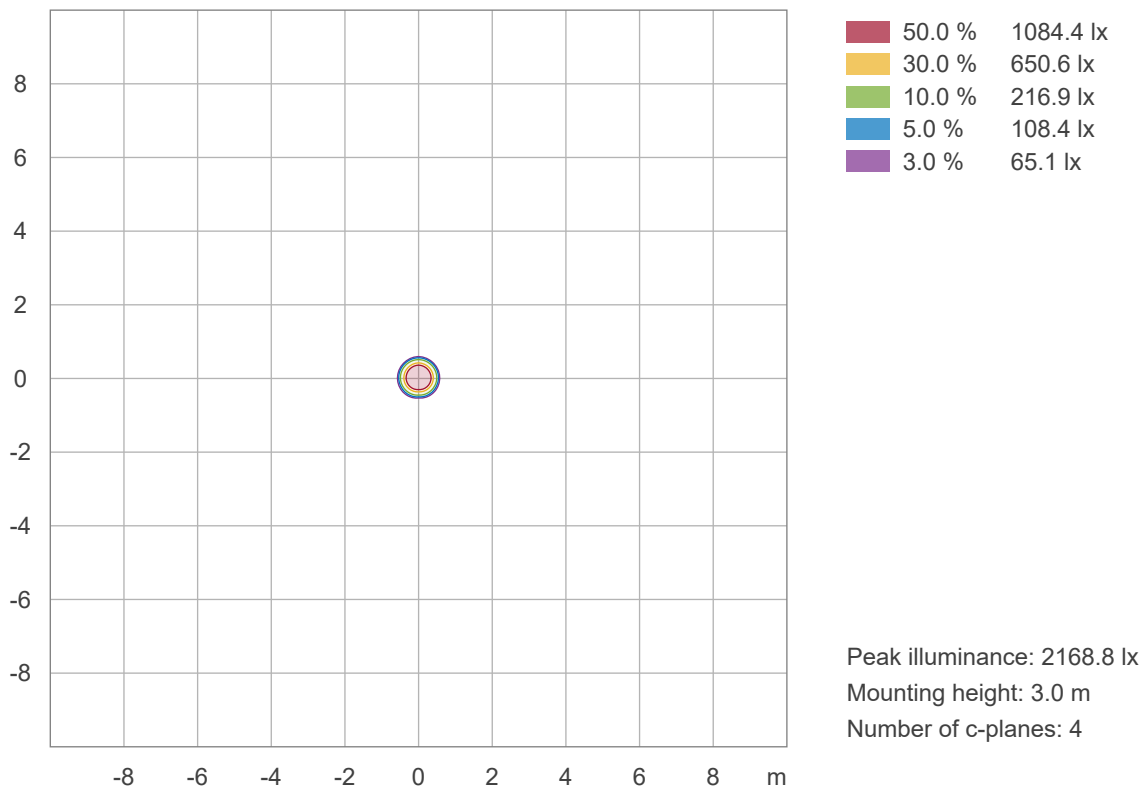
LAMPS (number of lamps)



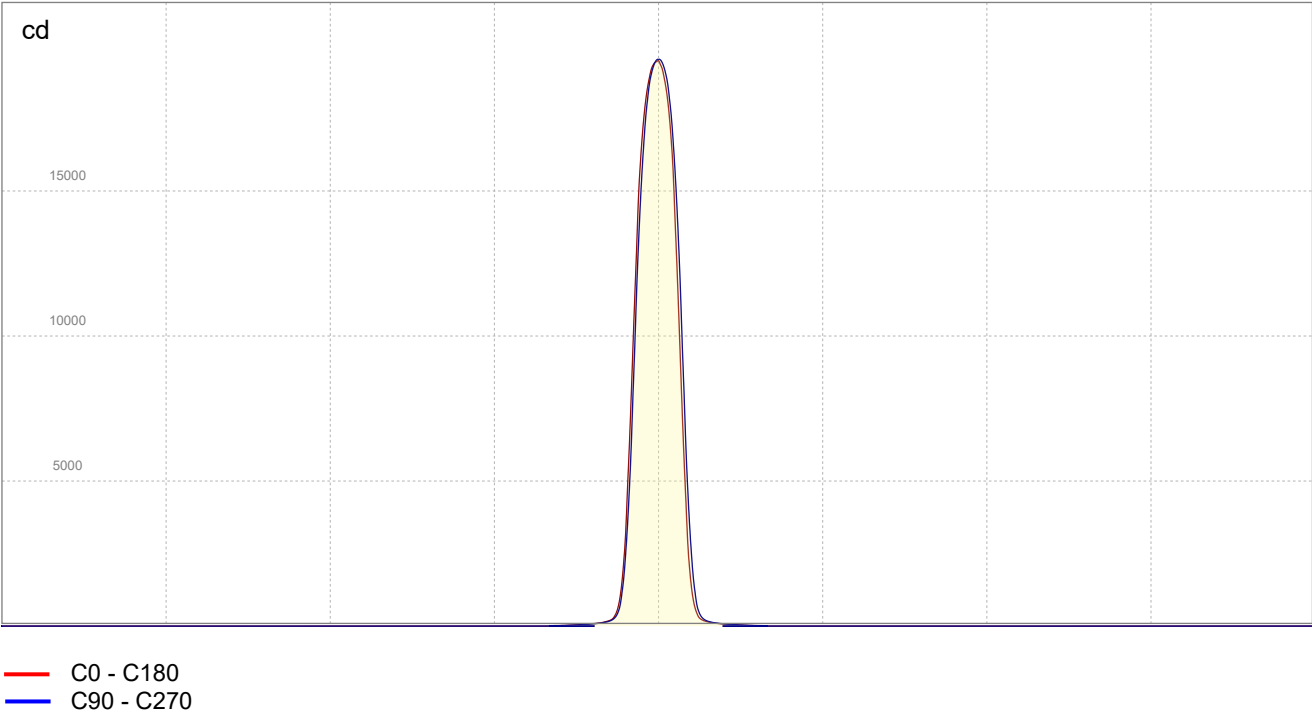
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

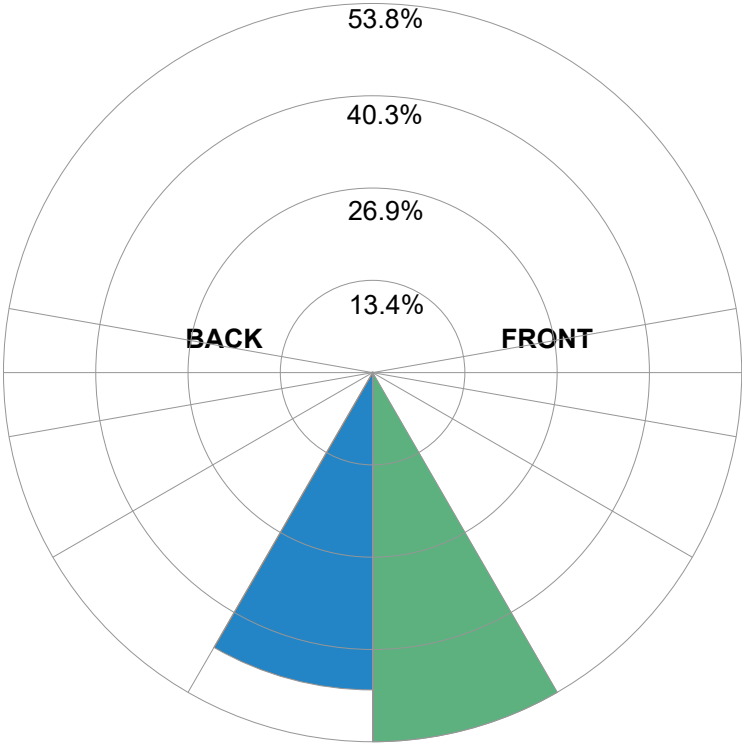


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	484.7	lm	53.8%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	416.6	lm	46.2%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	902	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

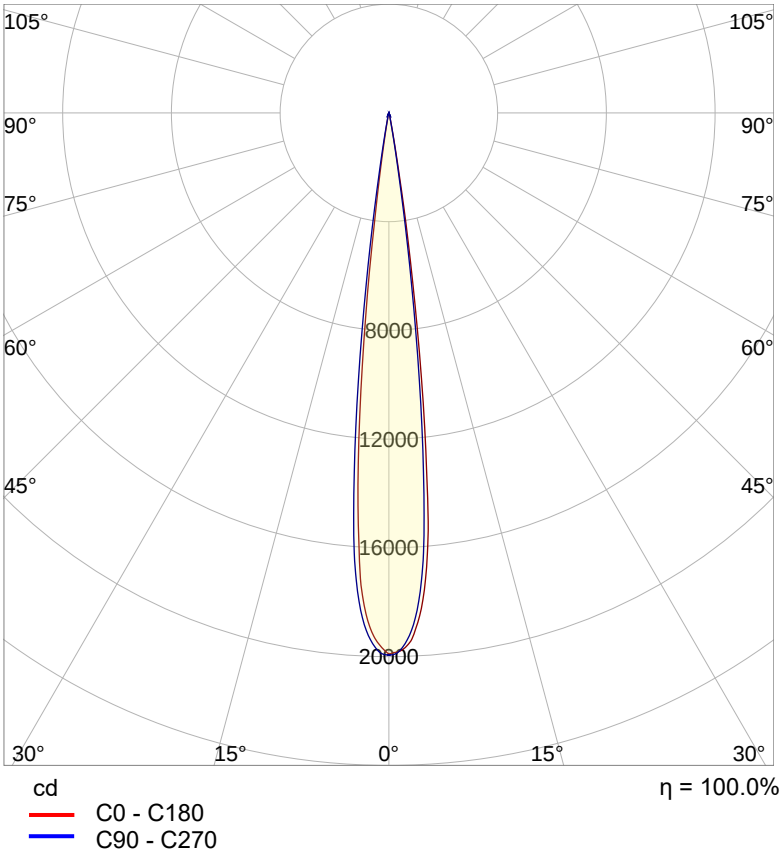
QuikBeam_OutputGain_Enabled_13D_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

923 lm – 0% / 100%
n/a lm/W
19943 cd
5500 K
CRI 0.0

Polar light distribution diagram

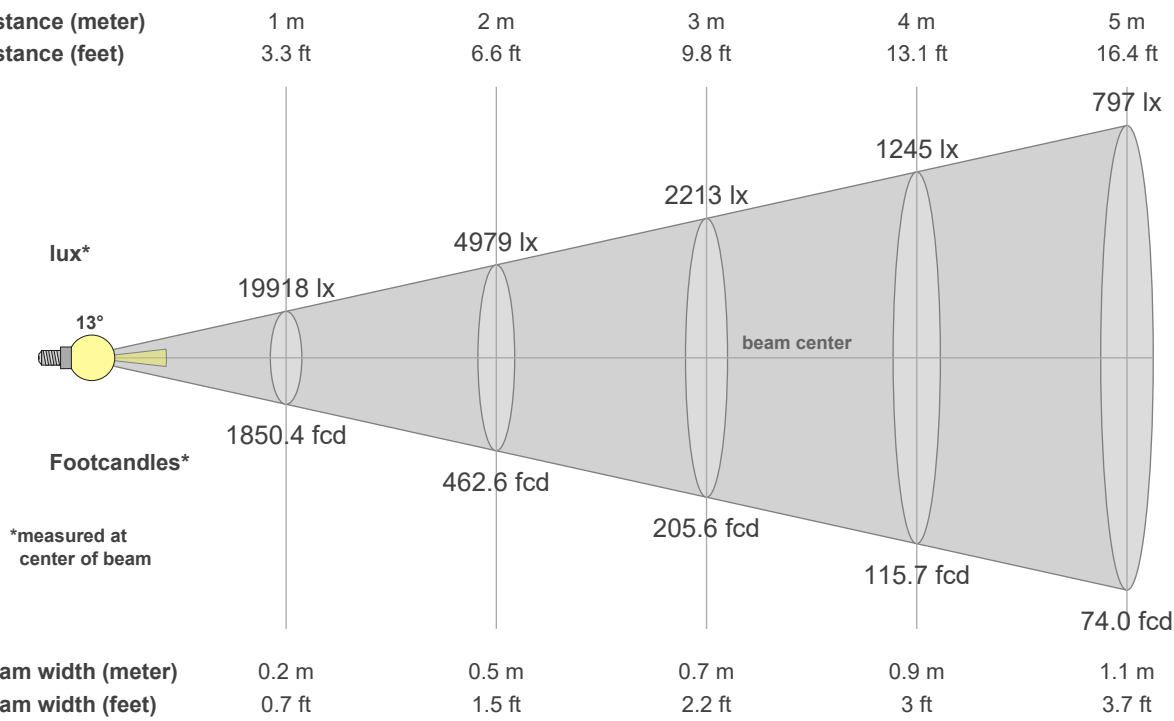


Test report

Light measurement results

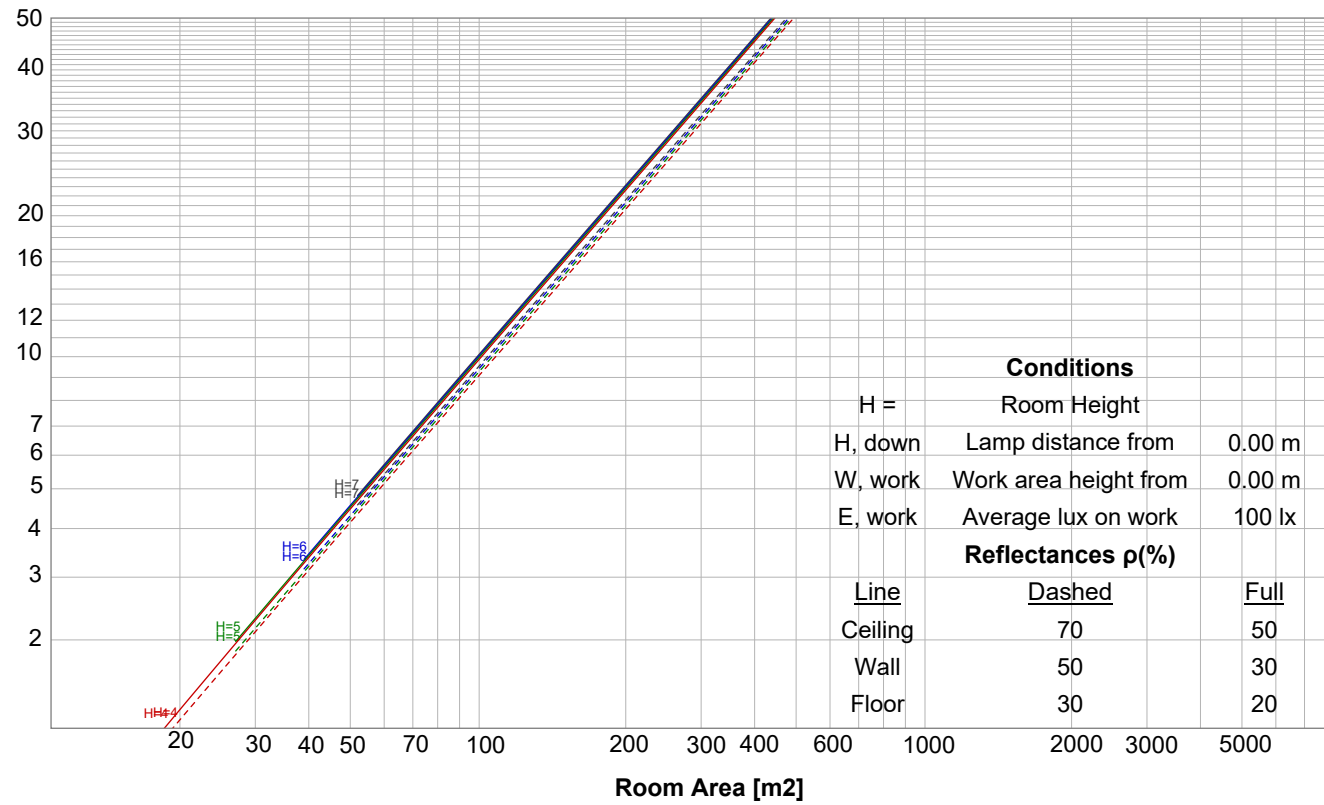
Print date 10/9/2025

Beam details

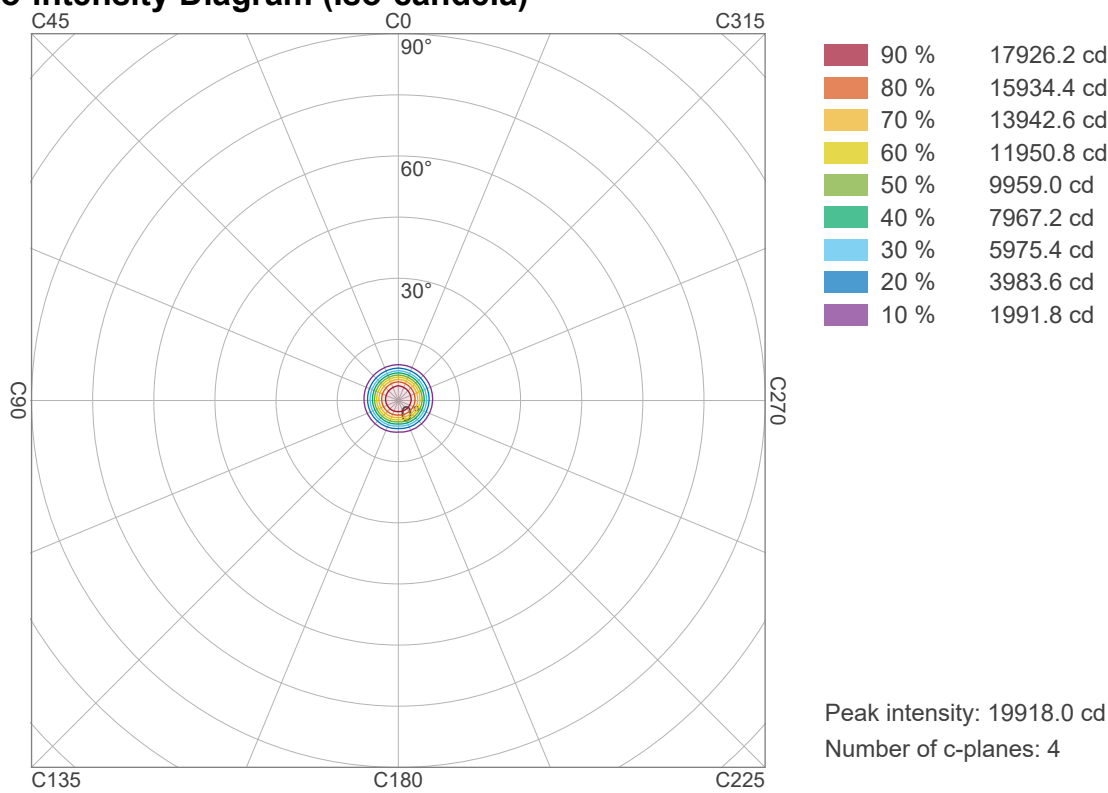


Luminaire budgetary diagram

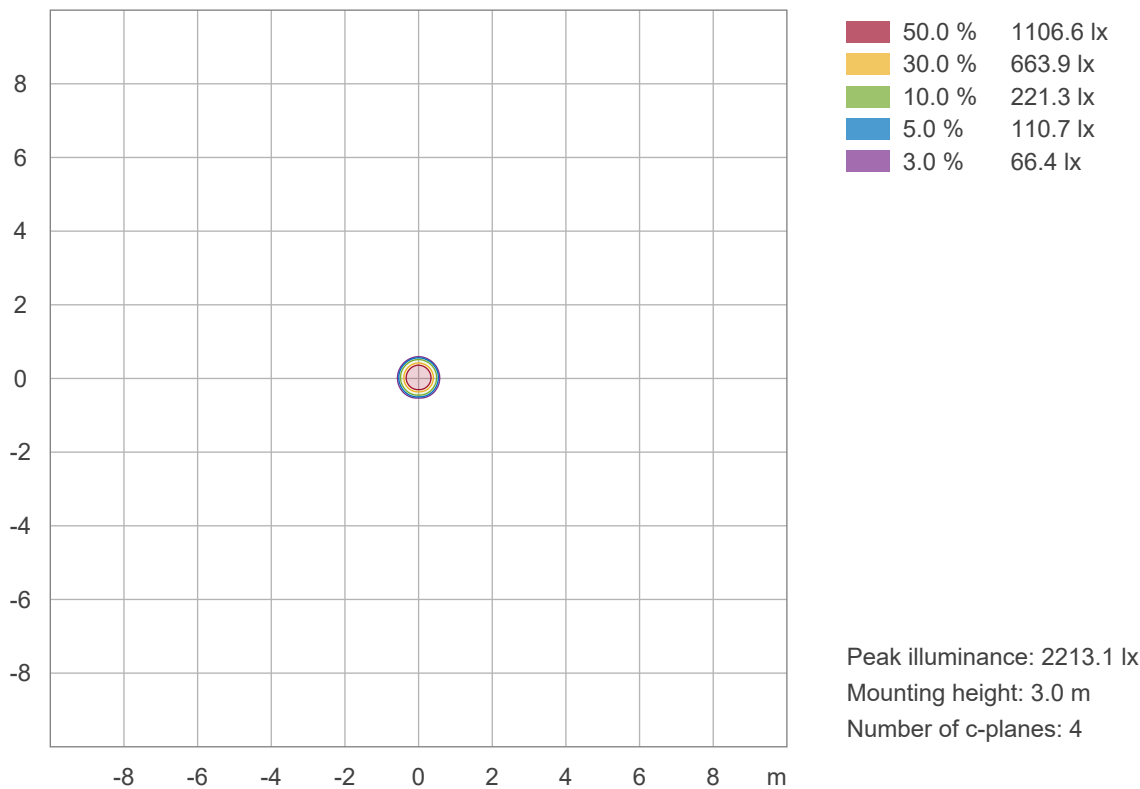
LAMPS (number of lamps)



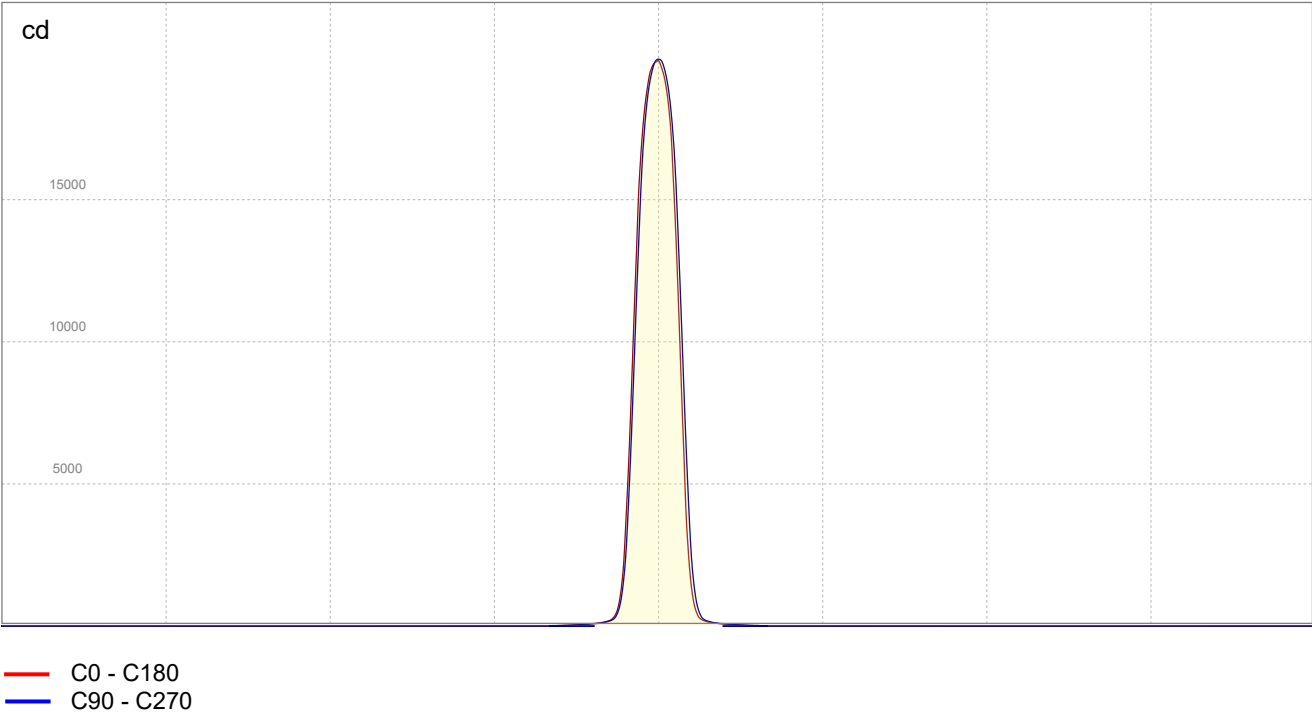
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

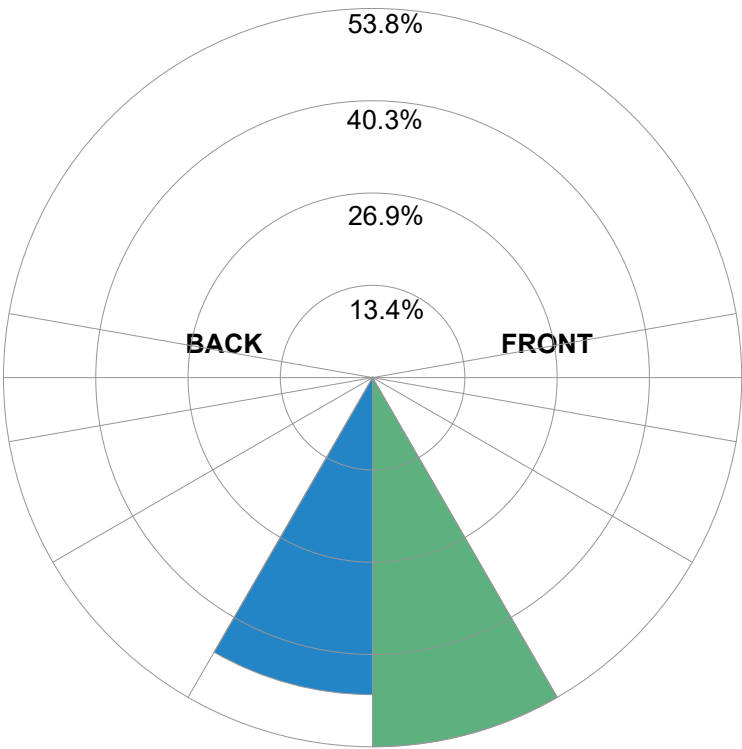


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	496.1	lm	53.8%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	426.1	lm	46.2%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	923	lm	100%
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Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

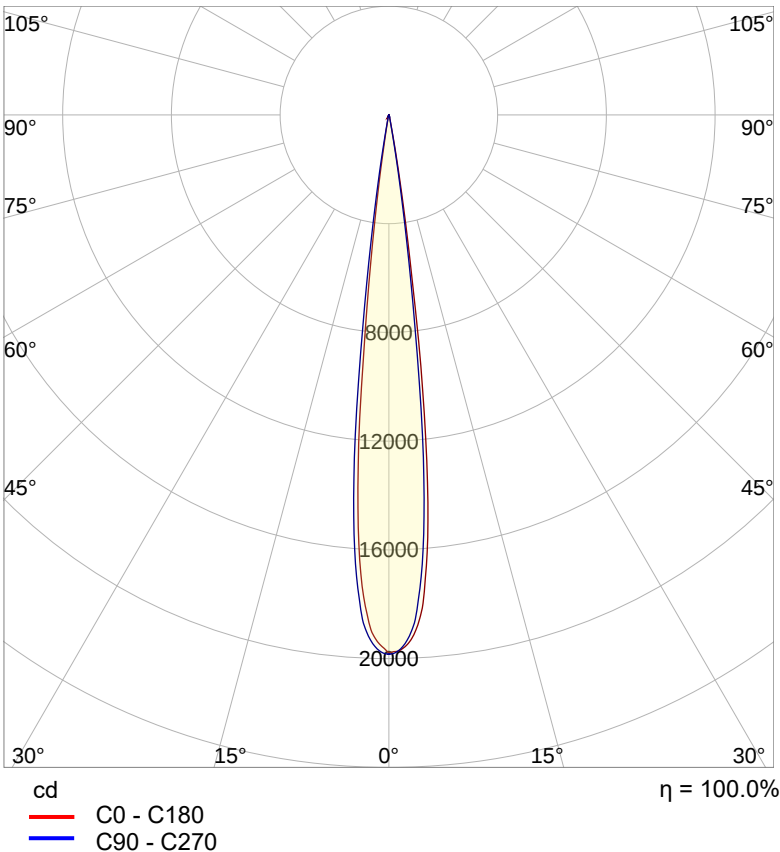
QuikBeam_OutputGain_Enabled_13D_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

919 lm – 0% / 100%
n/a lm/W
19836 cd
6500 K
CRI 0.0

Polar light distribution diagram

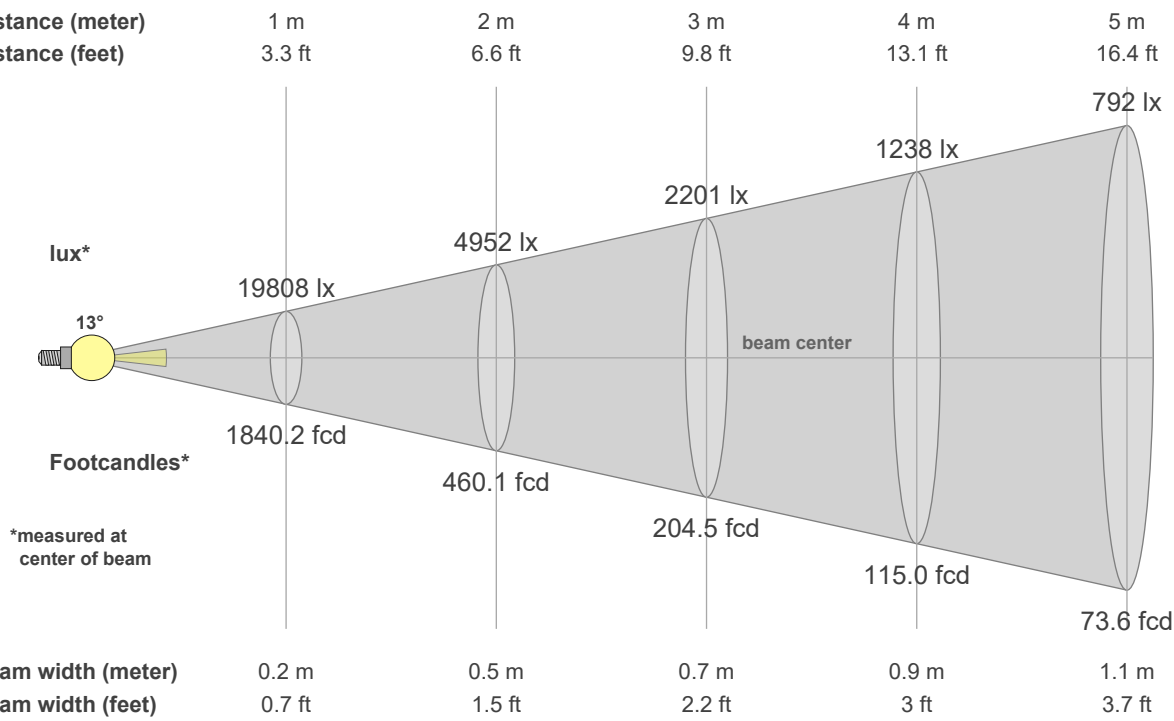


Test report

Light measurement results

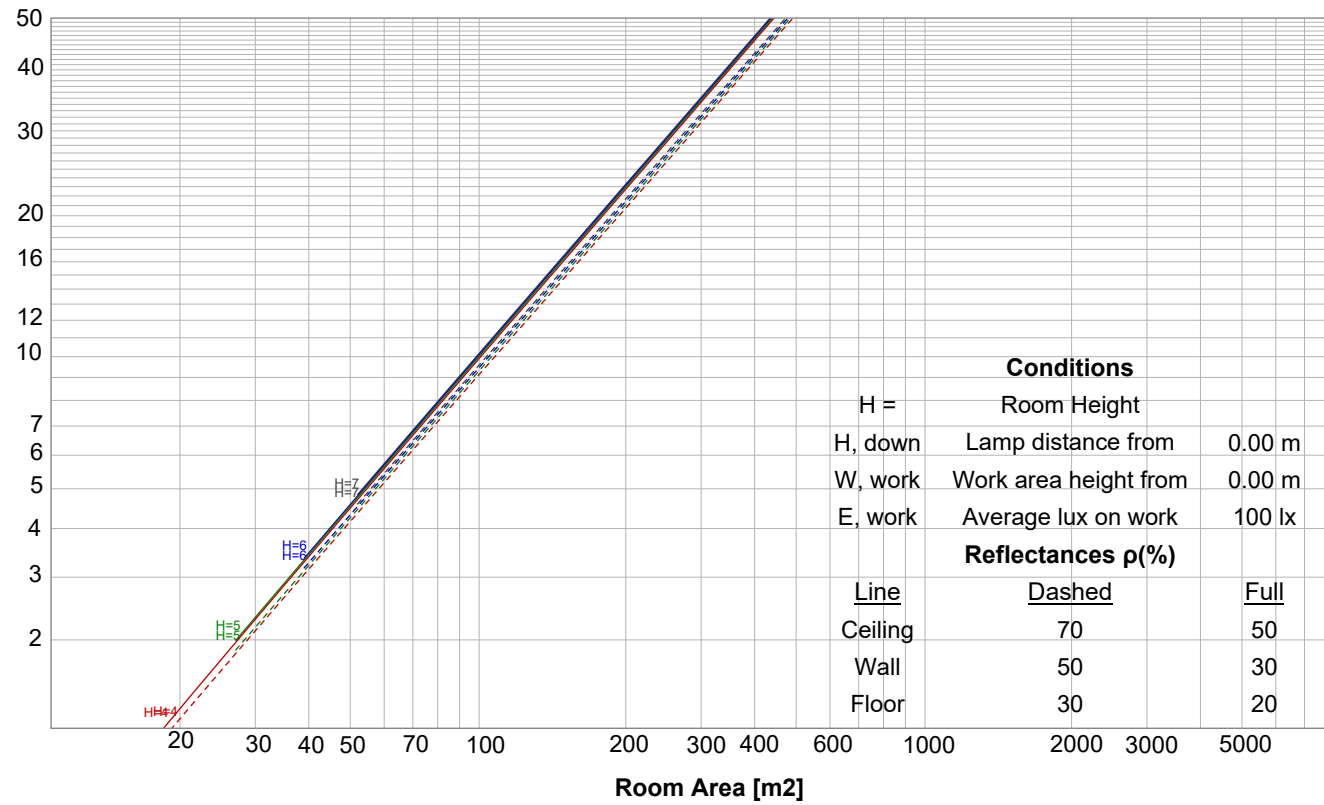
Print date 10/9/2025

Beam details

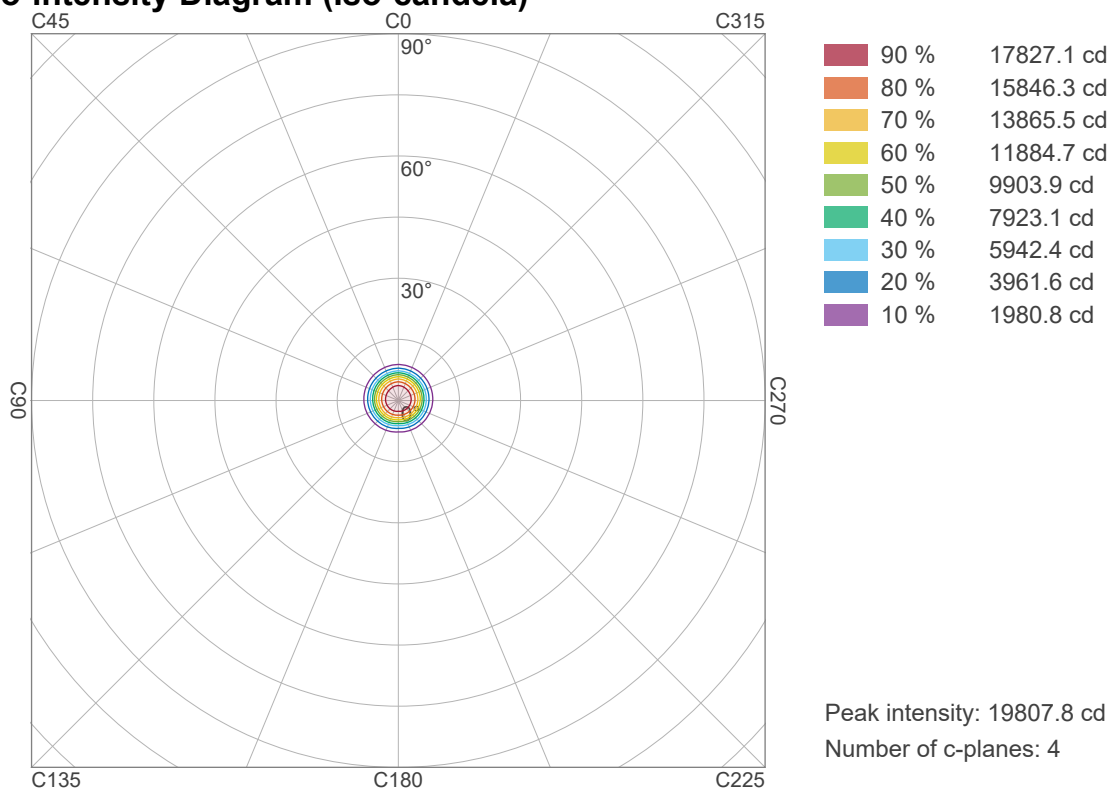


Luminaire budgetary diagram

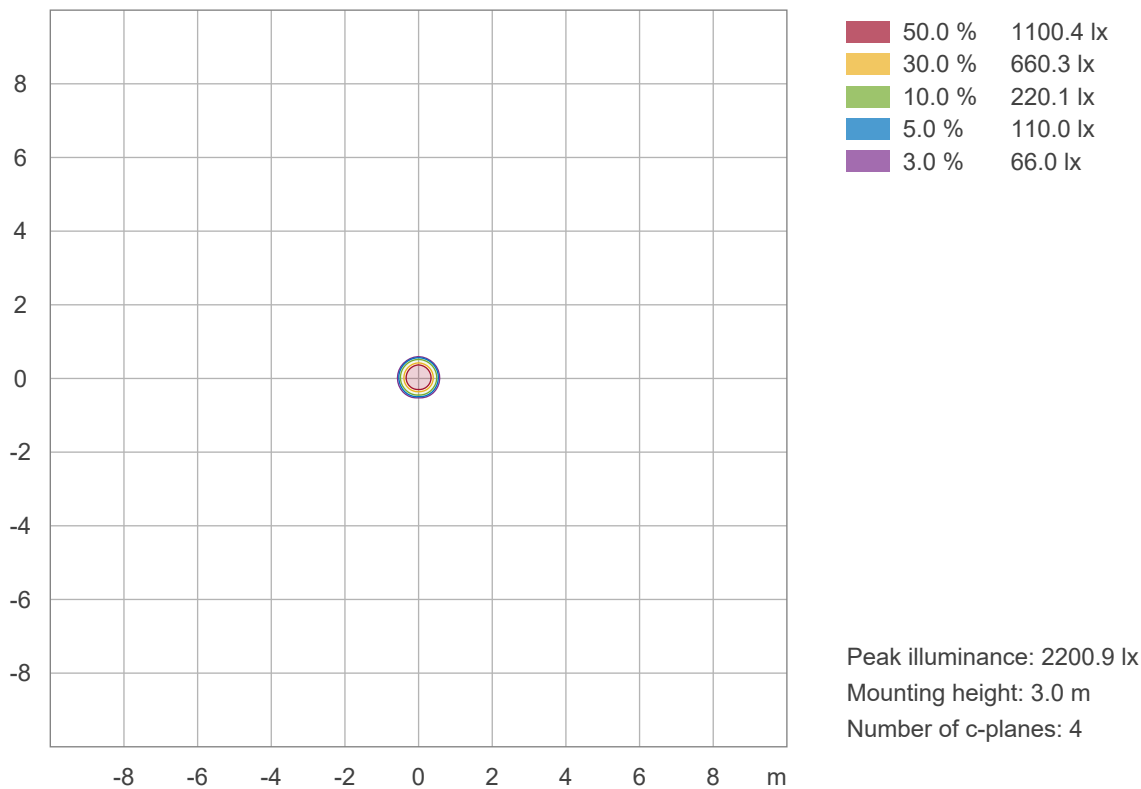
LAMPS (number of lamps)



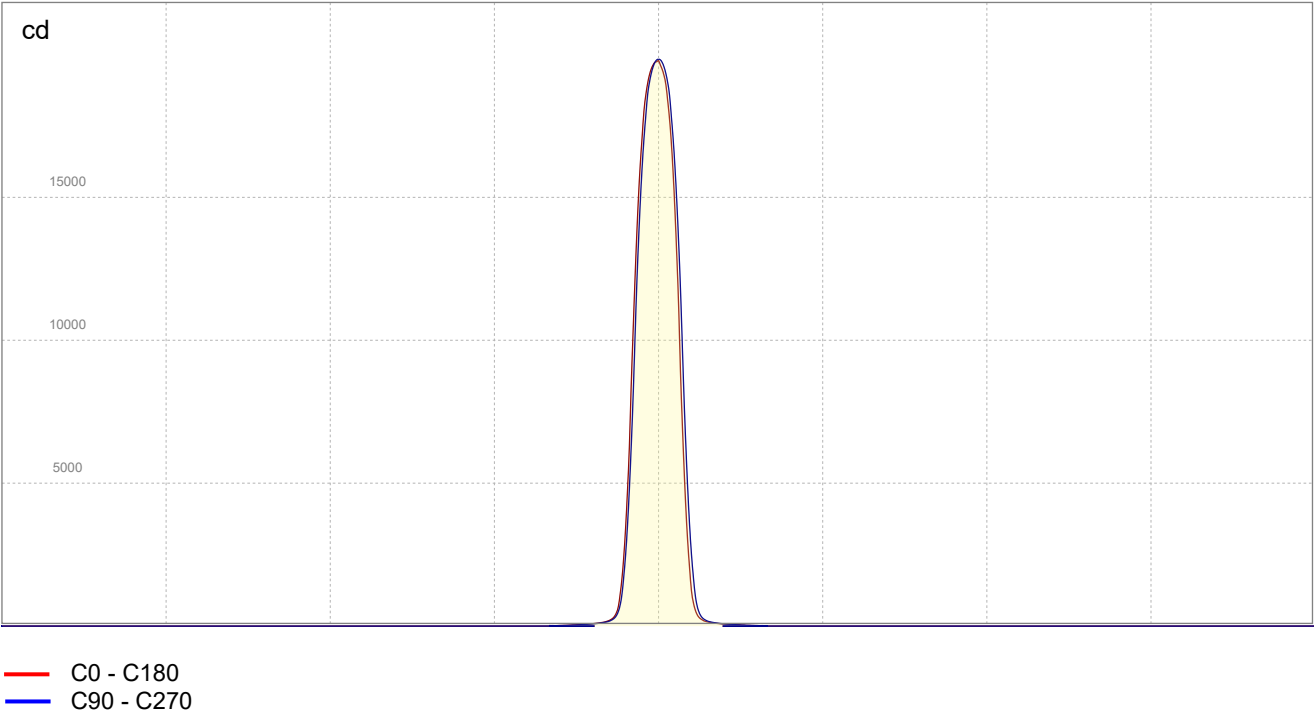
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

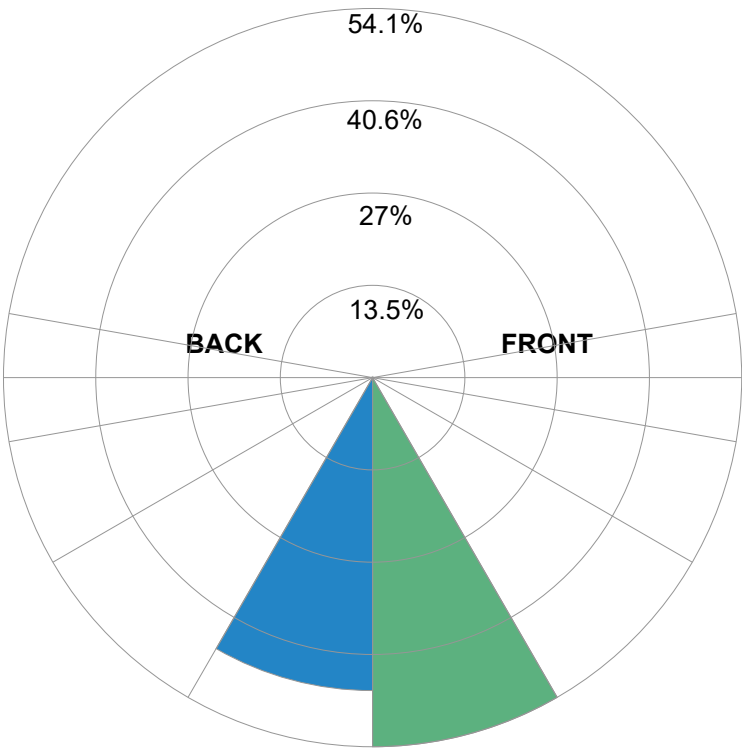


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	497	Im	54.1%
Medium (30-60°)	0.2	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%

Back Light

Low (0-30°)	421.3	Im	45.9%
Medium (30-60°)	0.2	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%

Uplight

Low (90-100°)	0	Im	0%
High (100-180°)	0	Im	0%

Total

Sum	919	Im	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

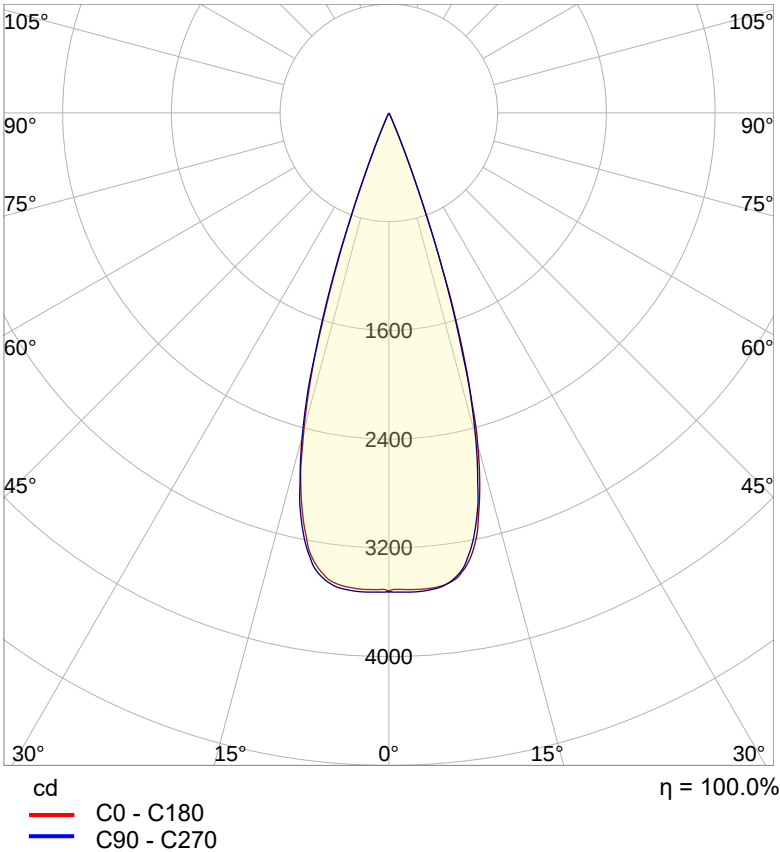
QuikBeam_OutputGain_Enabled_30D_2700K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1017 lm – 0% / 100%
n/a lm/W
3529 cd
2700 K
CRI 0.0

Polar light distribution diagram

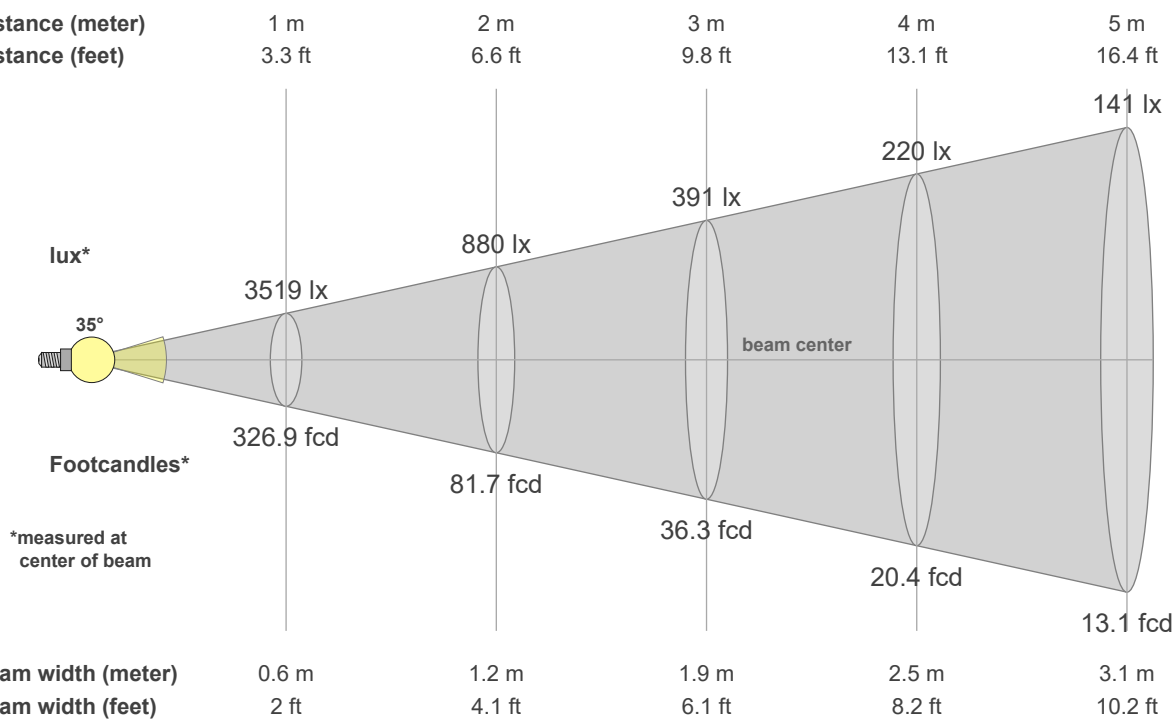


Test report

Light measurement results

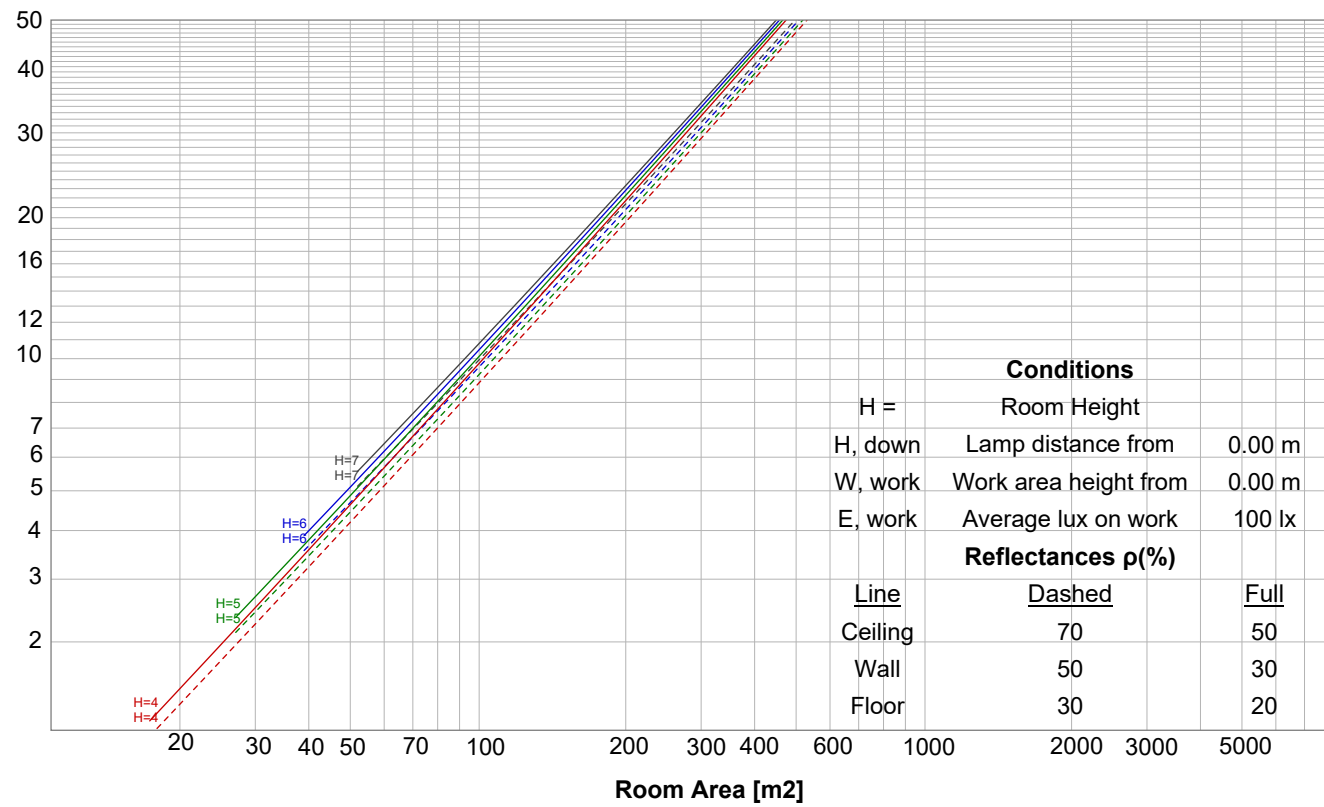
Print date 10/9/2025

Beam details

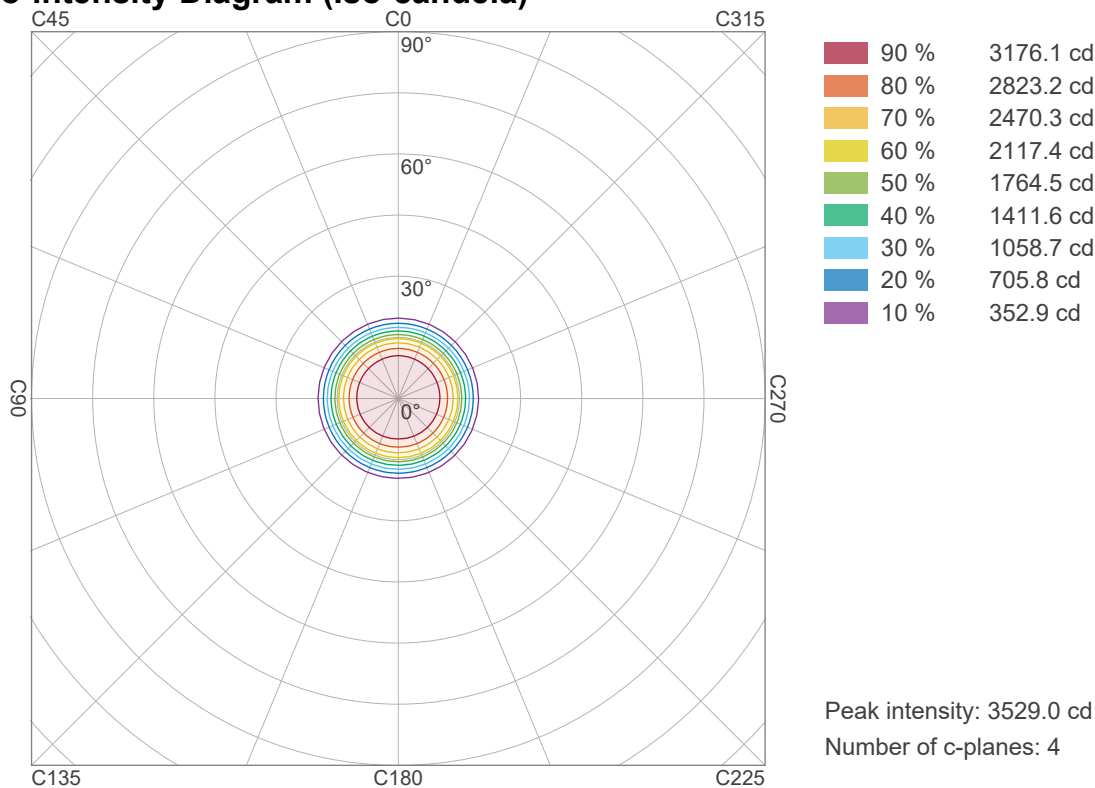


Luminaire budgetary diagram

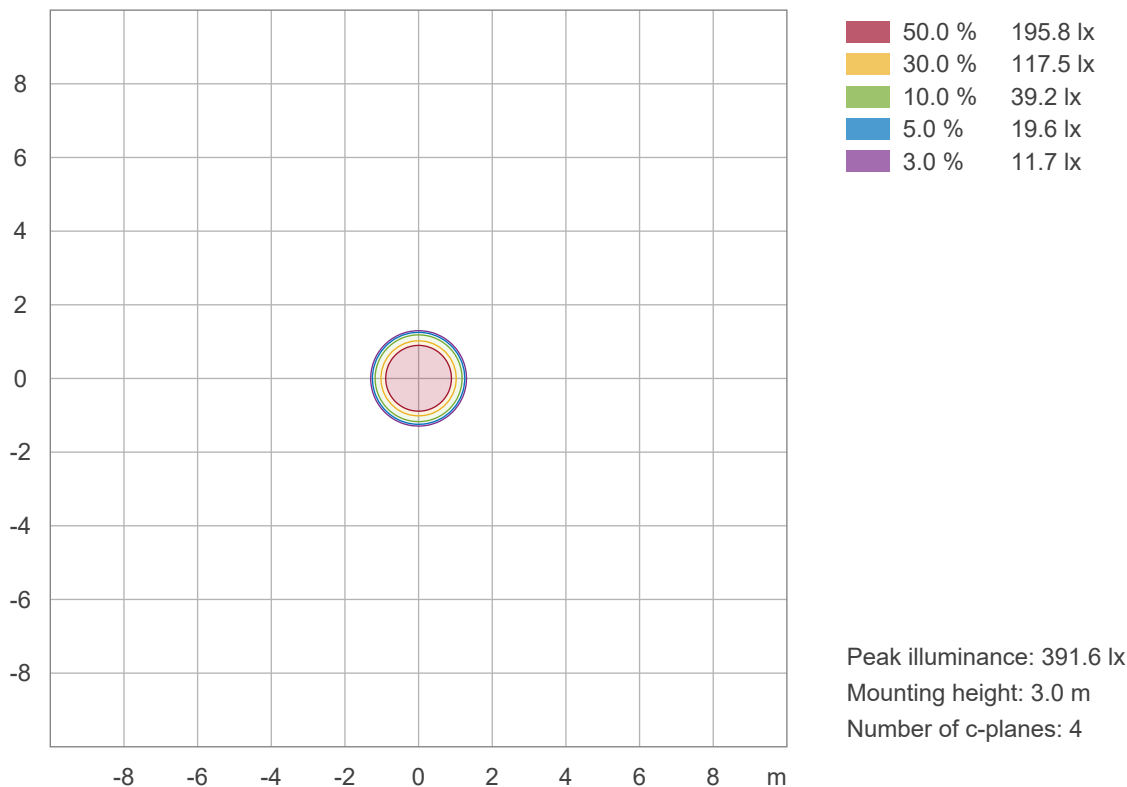
LAMPS (number of lamps)



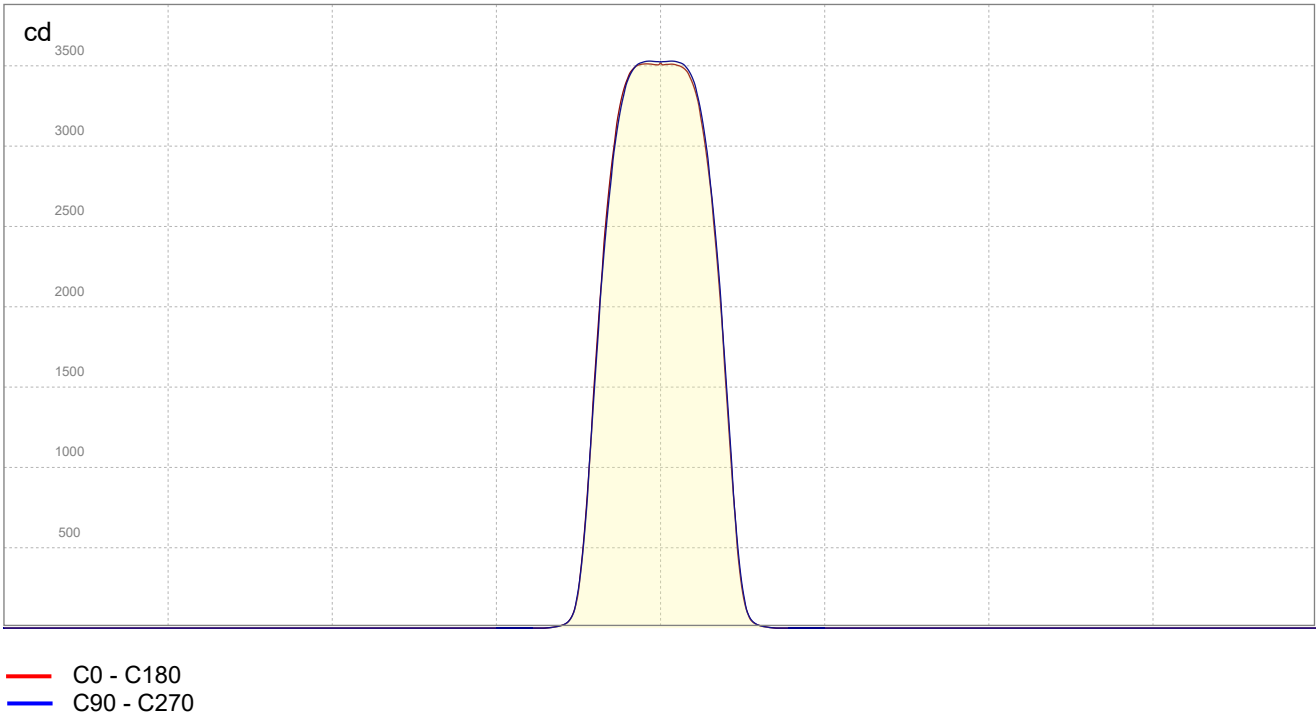
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

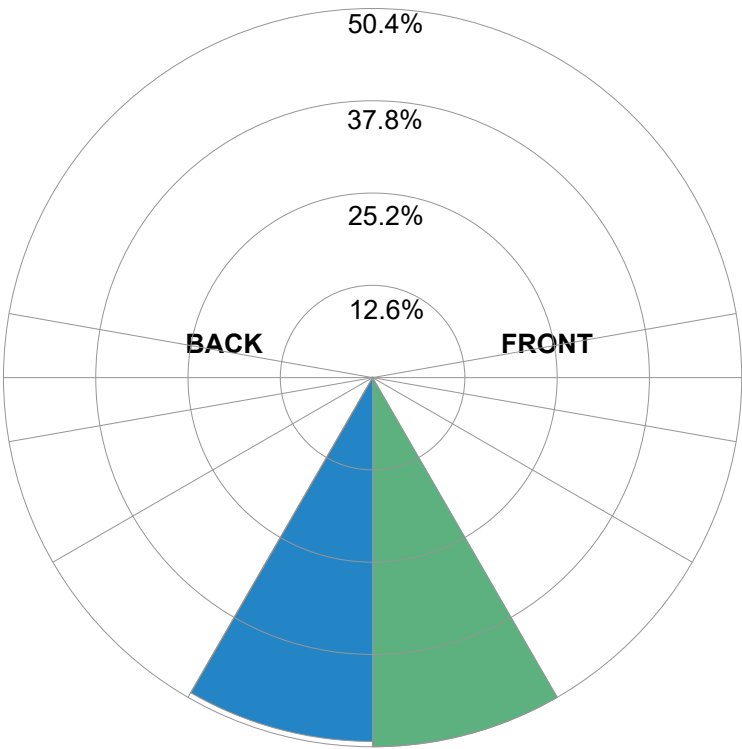


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B2 U0 G0



Forward Light

Low (0-30°)	512.2	lm	50.4%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	504.8	lm	49.6%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1017	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

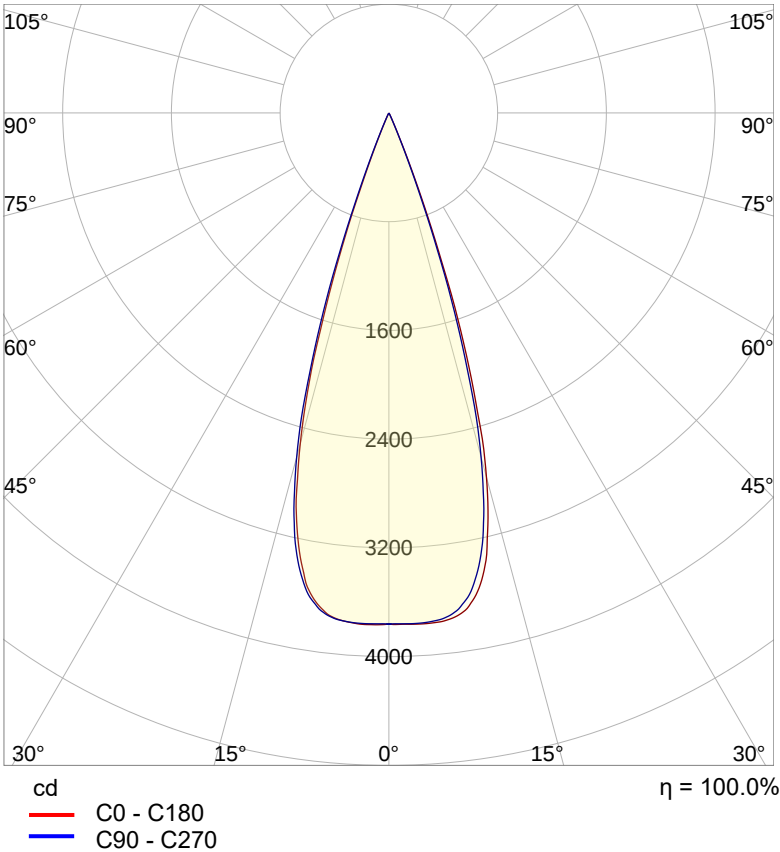
QuikBeam_OutputGain_Enabled_30D_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1086 lm – 0% / 100%
n/a lm/W
3768 cd
3200 K
CRI 0.0

Polar light distribution diagram

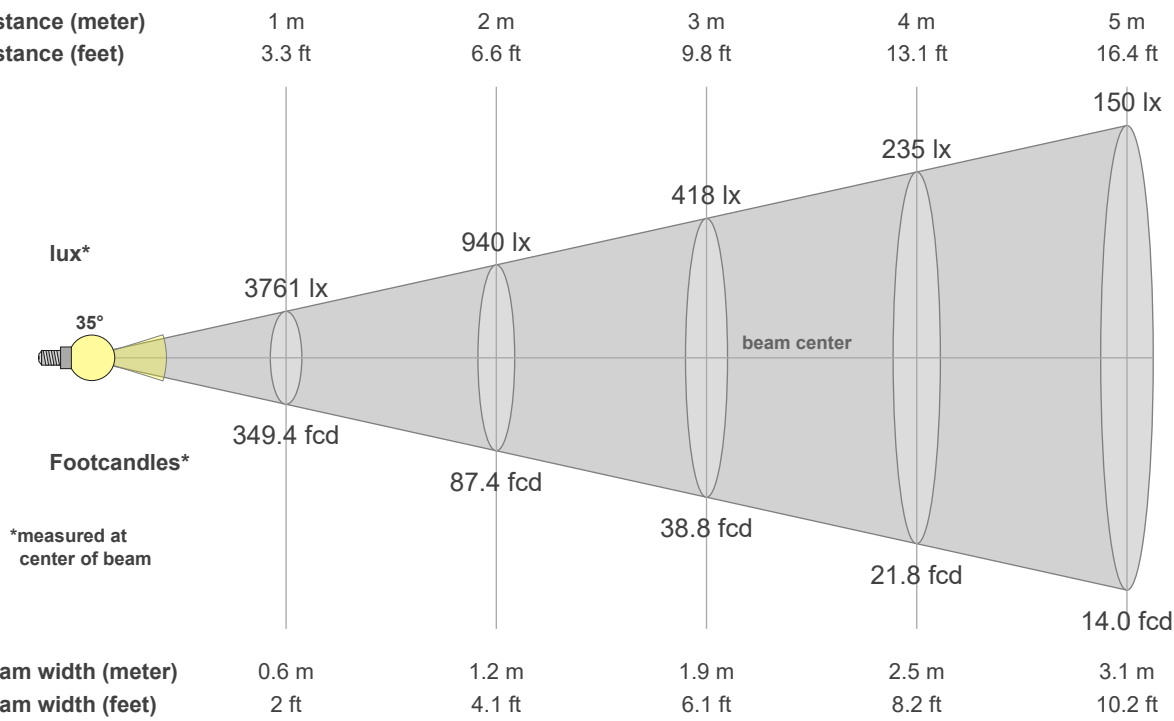


Test report

Light measurement results

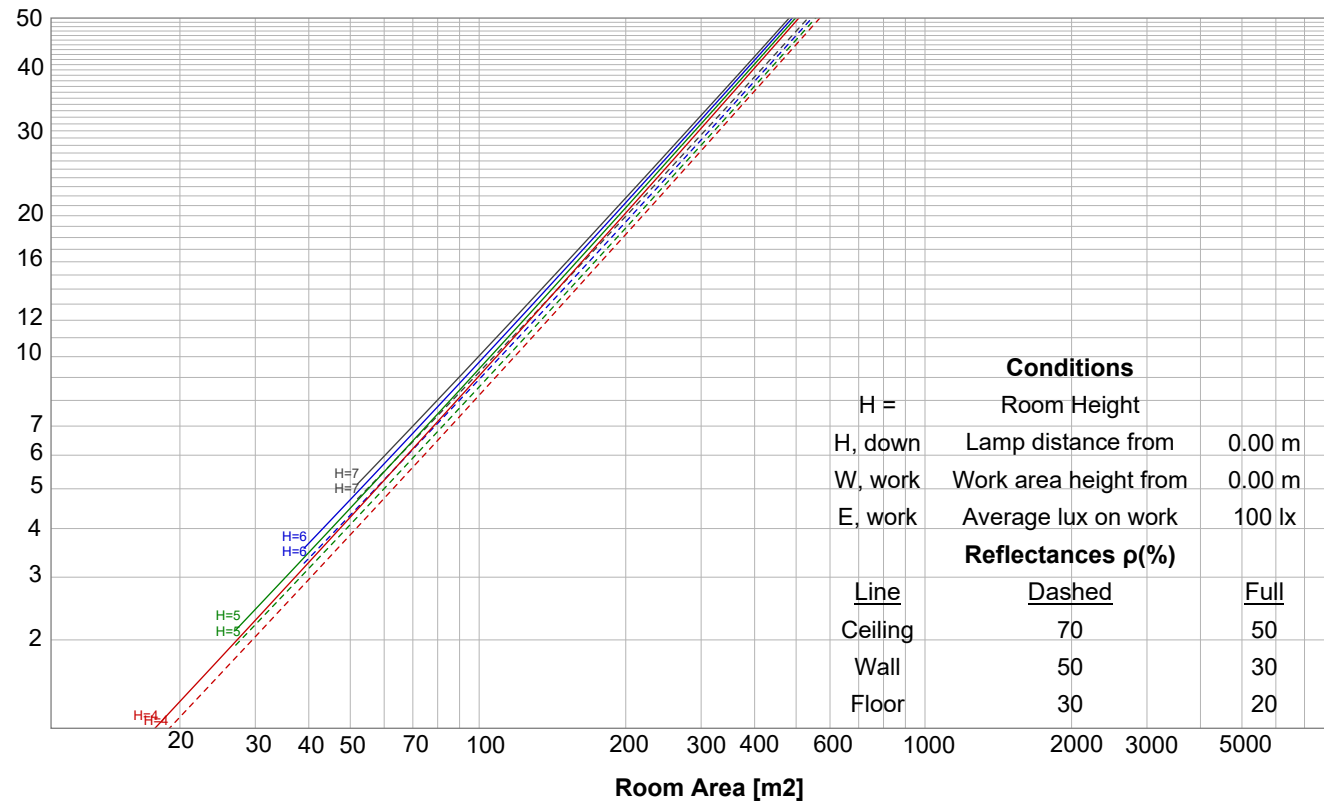
Print date 10/9/2025

Beam details

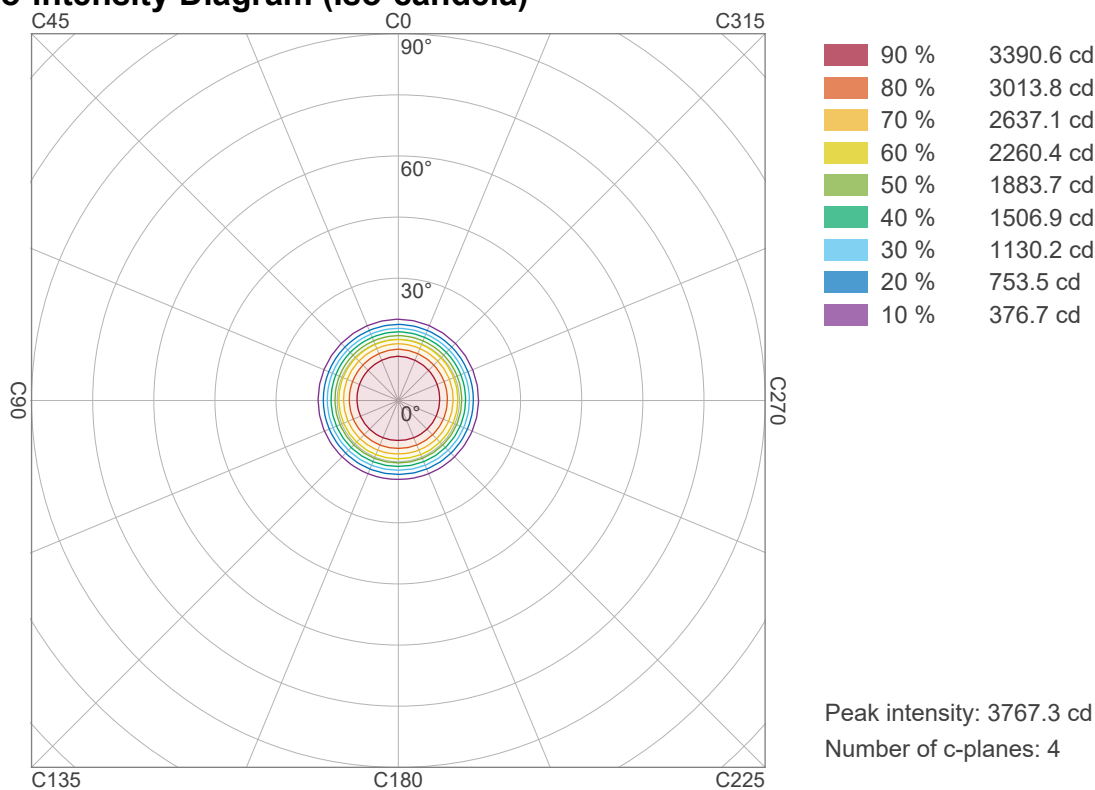


Luminaire budgetary diagram

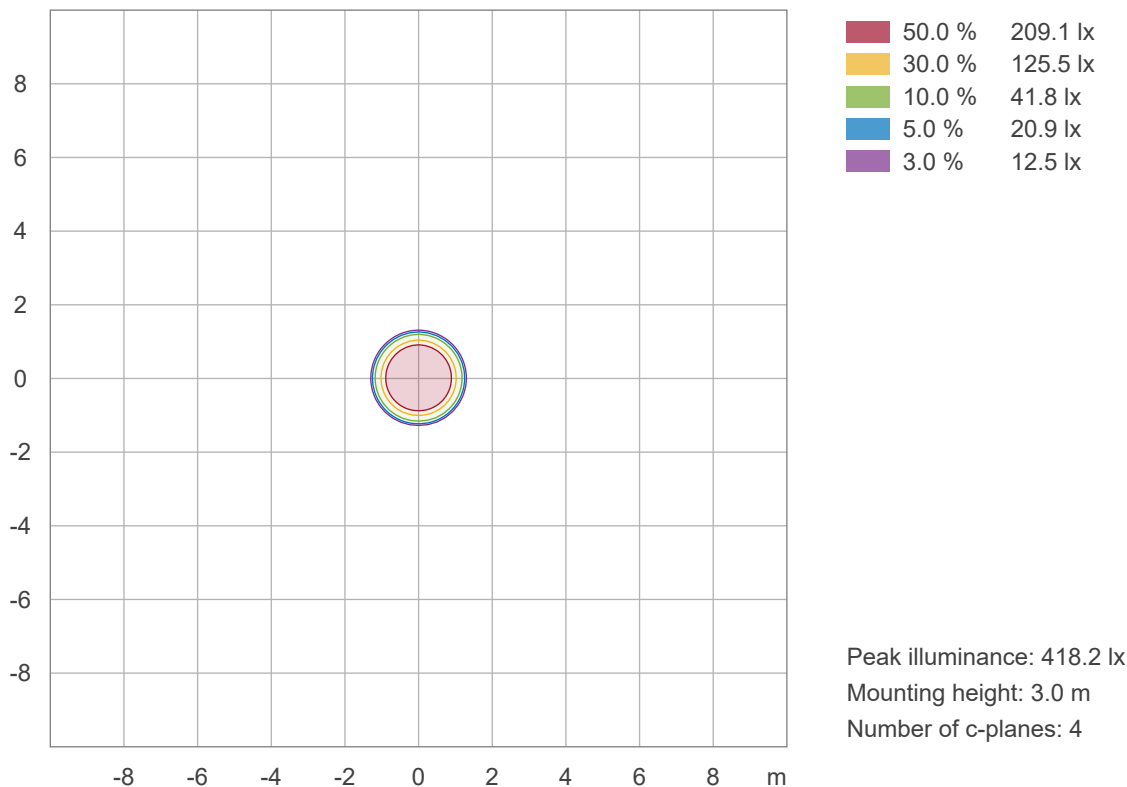
LAMPS (number of lamps)



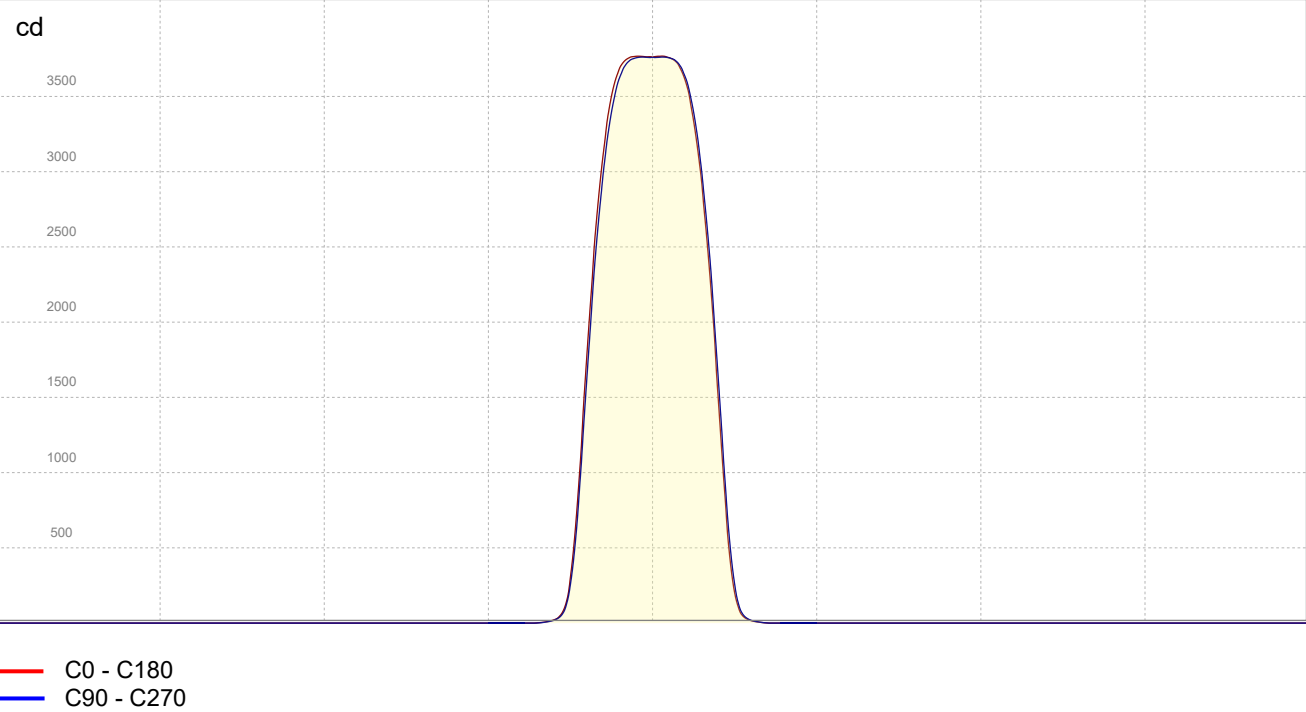
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

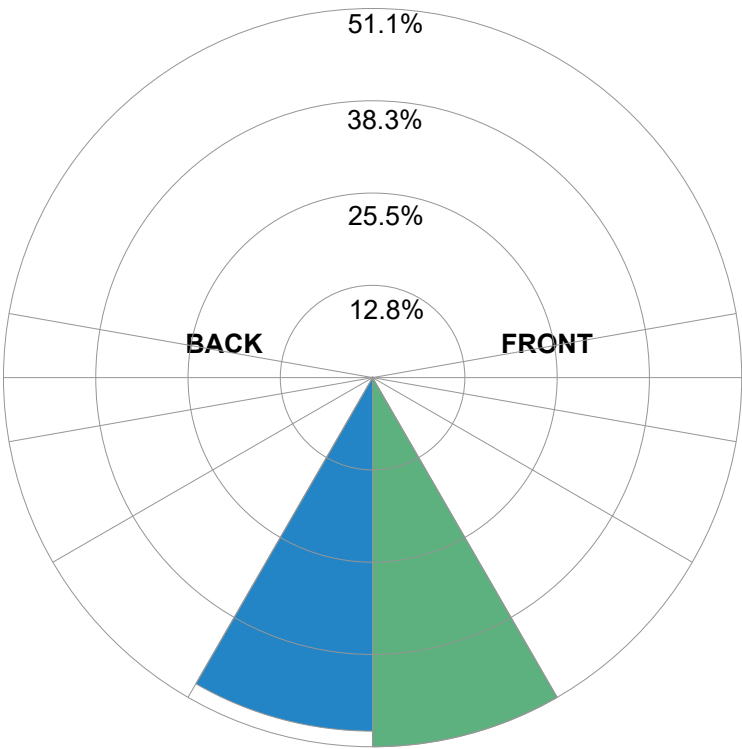


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B2 U0 G0



Forward Light			
Low (0-30°)	554.8	lm	51.1%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%
Back Light			
Low (0-30°)	531.3	lm	48.9%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	1086	lm	100%

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

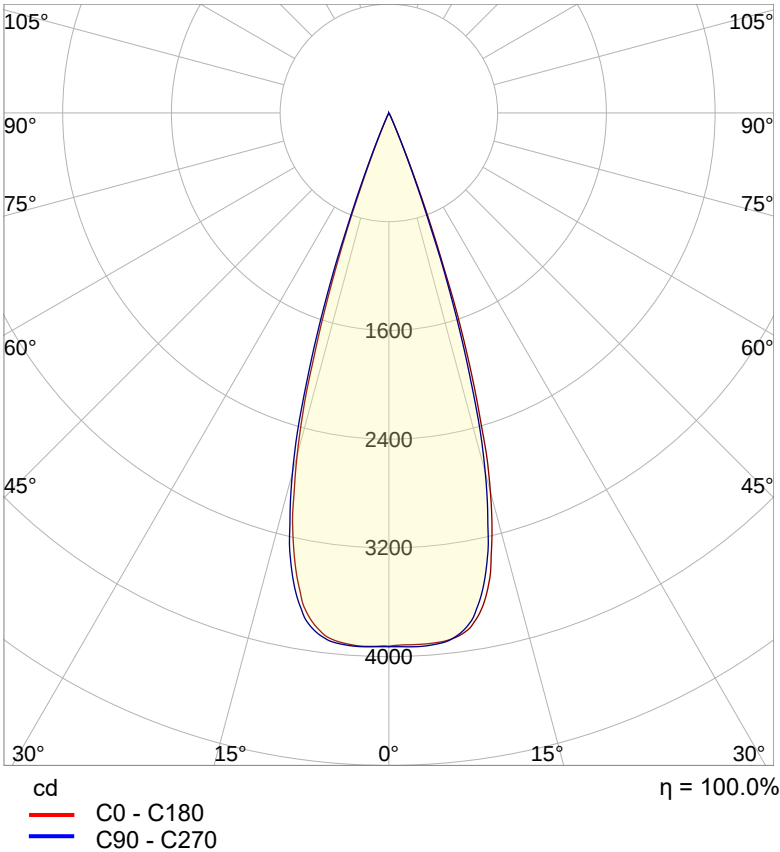
QuikBeam_OutputGain_Enabled_30D_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1131 lm – 0% / 100%
n/a lm/W
3932 cd
4000 K
CRI 0.0

Polar light distribution diagram

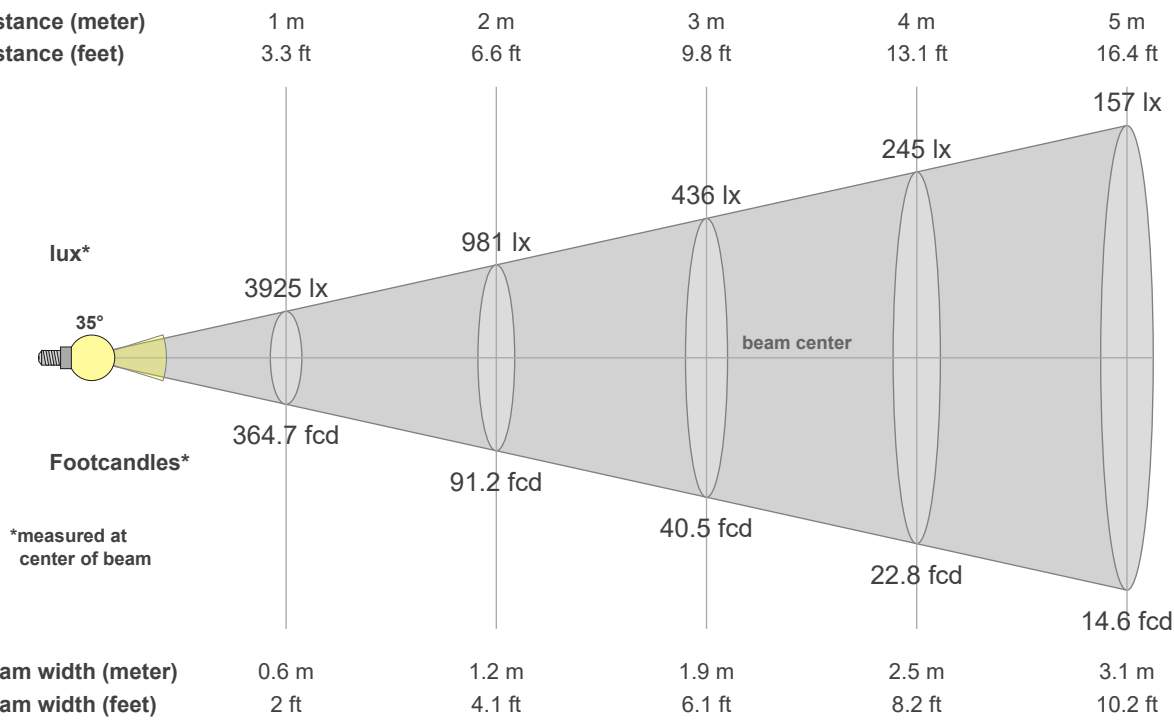


Test report

Light measurement results

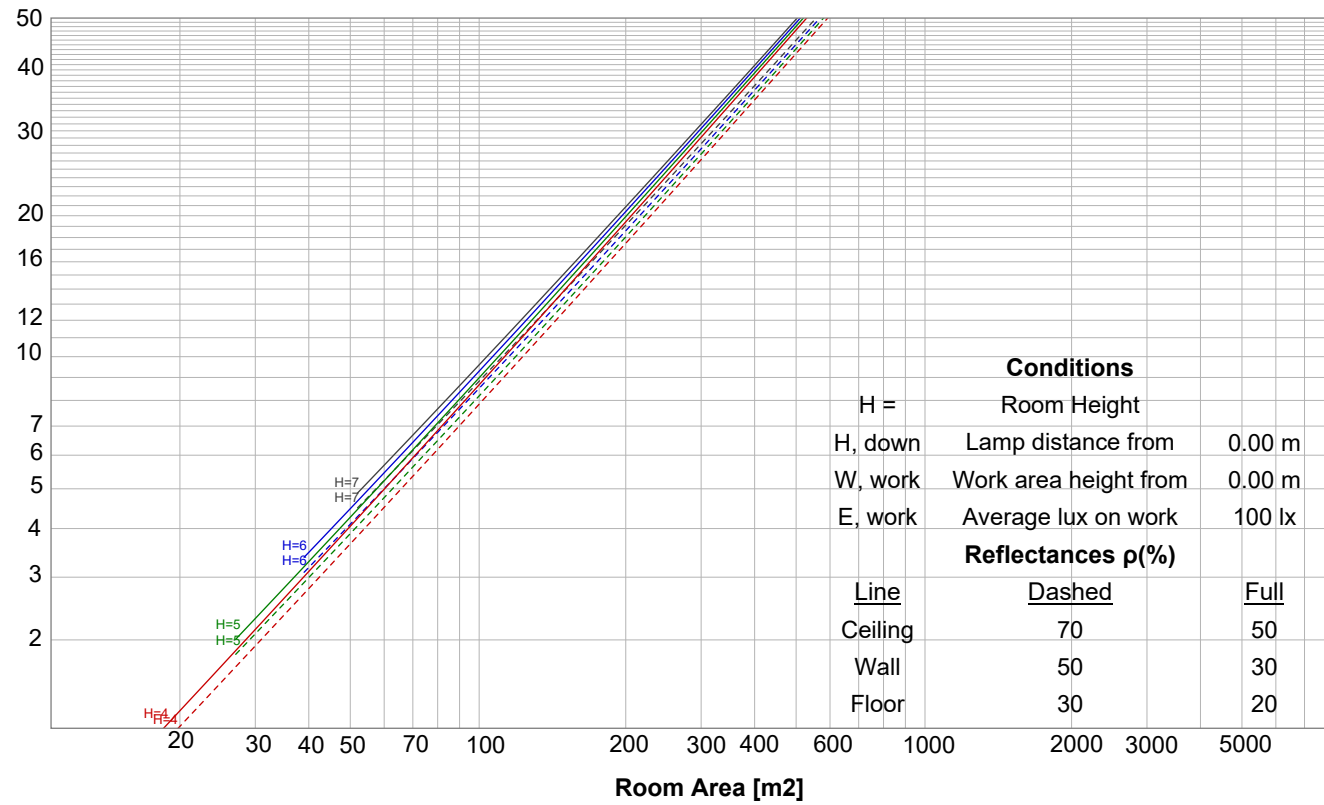
Print date 10/9/2025

Beam details

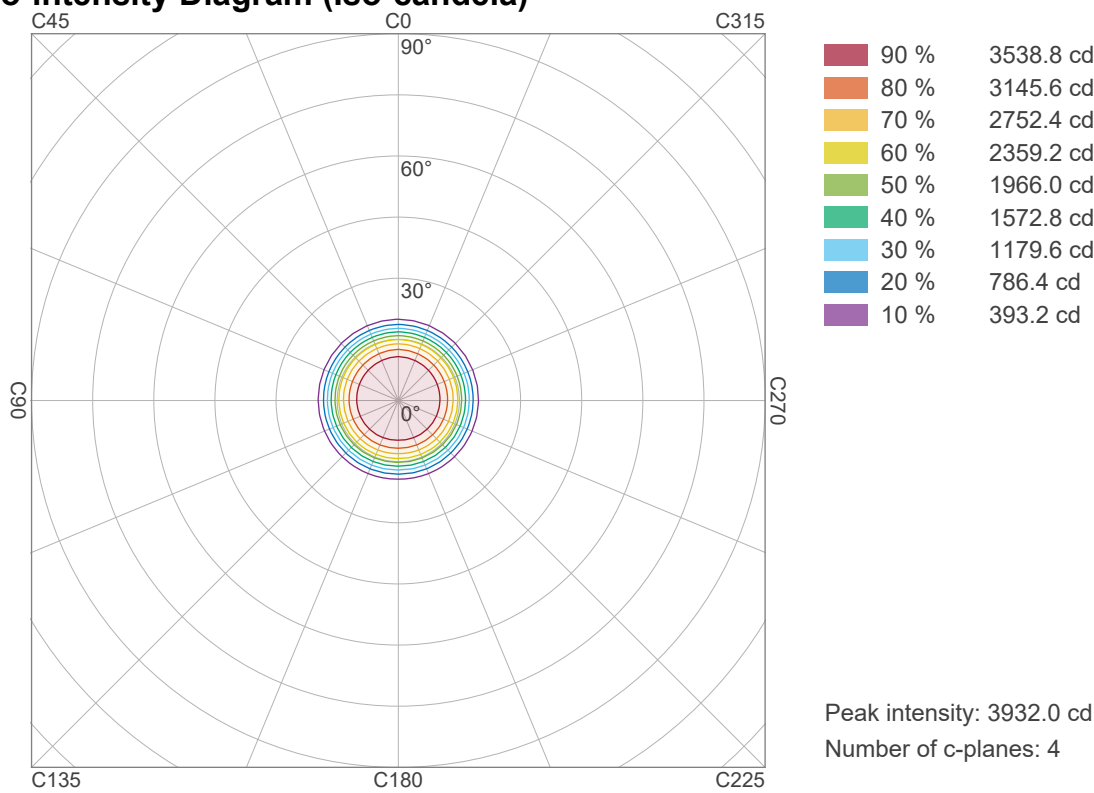


Luminaire budgetary diagram

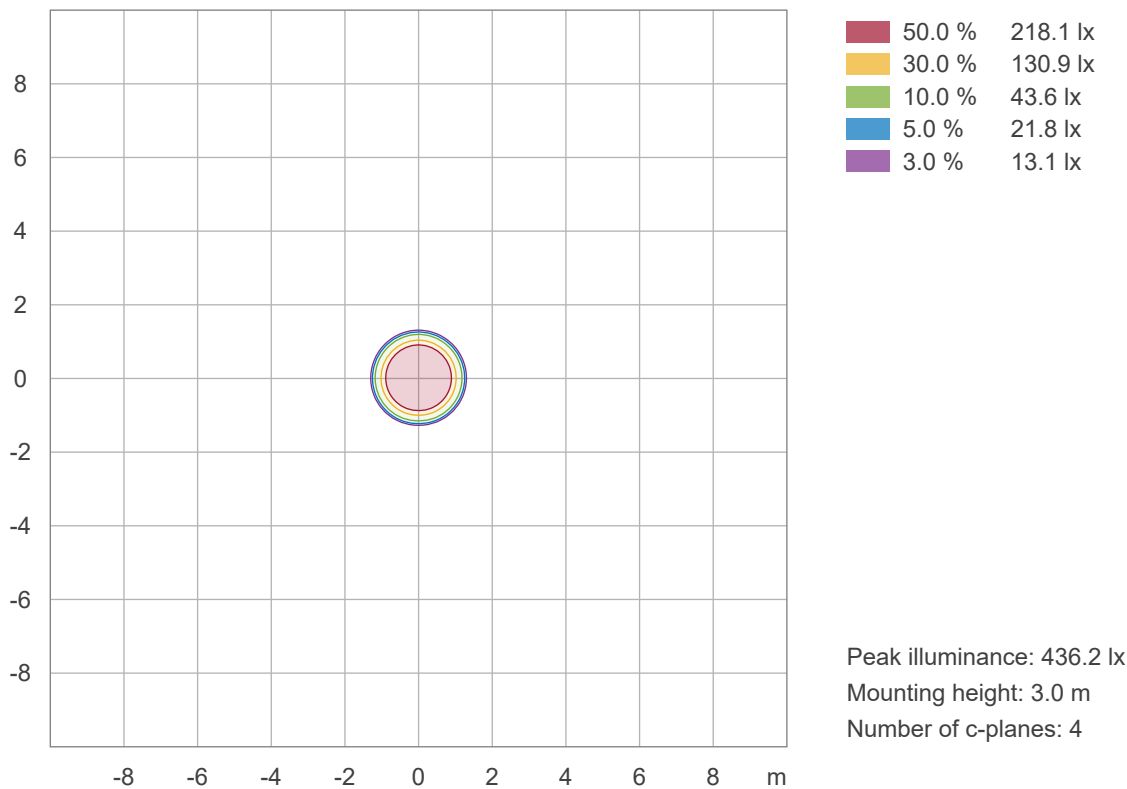
LAMPS (number of lamps)



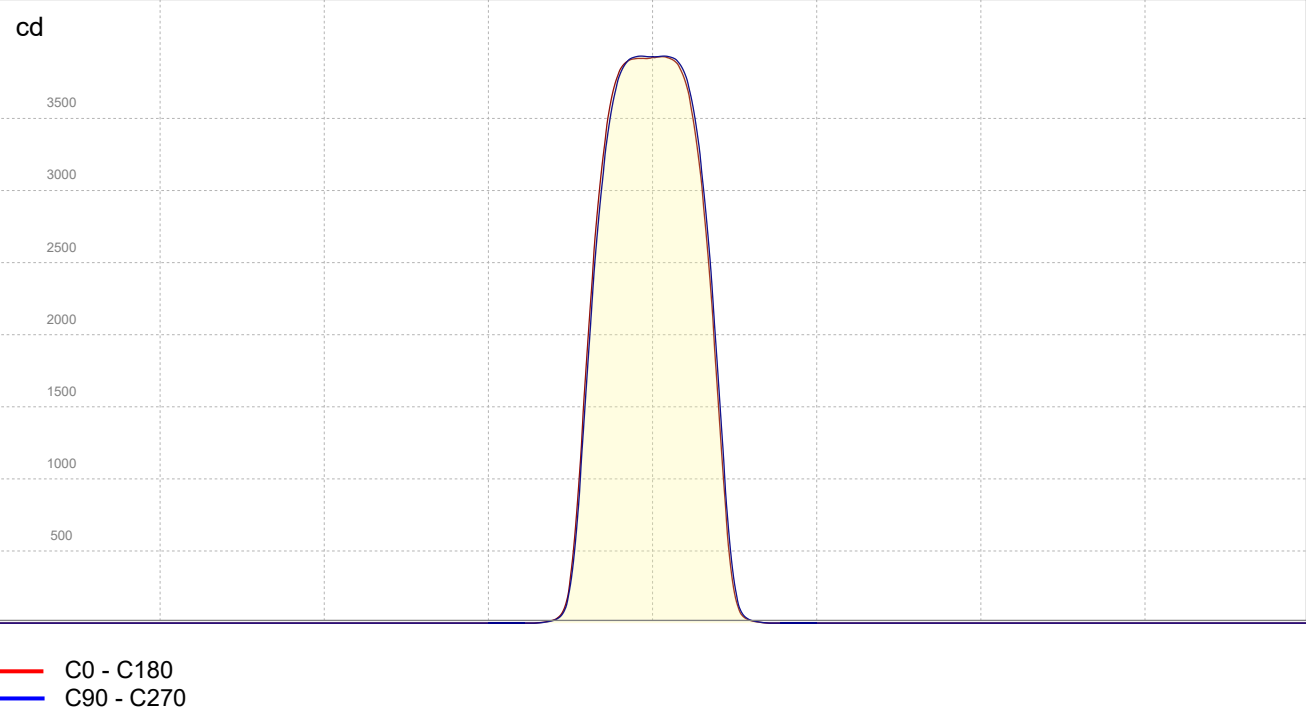
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

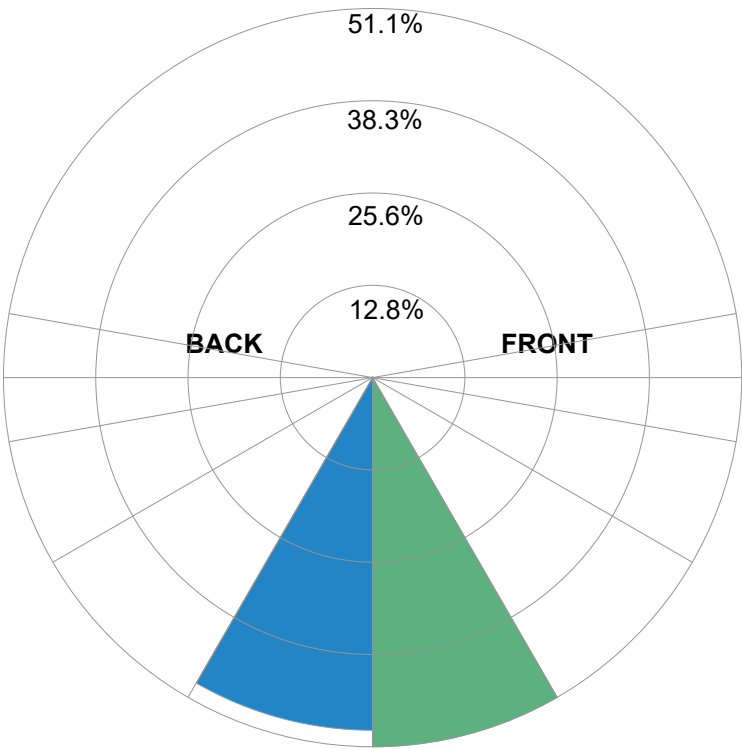


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B2 U0 G0



Forward Light

Low (0-30°)	578.5	lm	51.1%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	552.6	lm	48.8%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1131	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

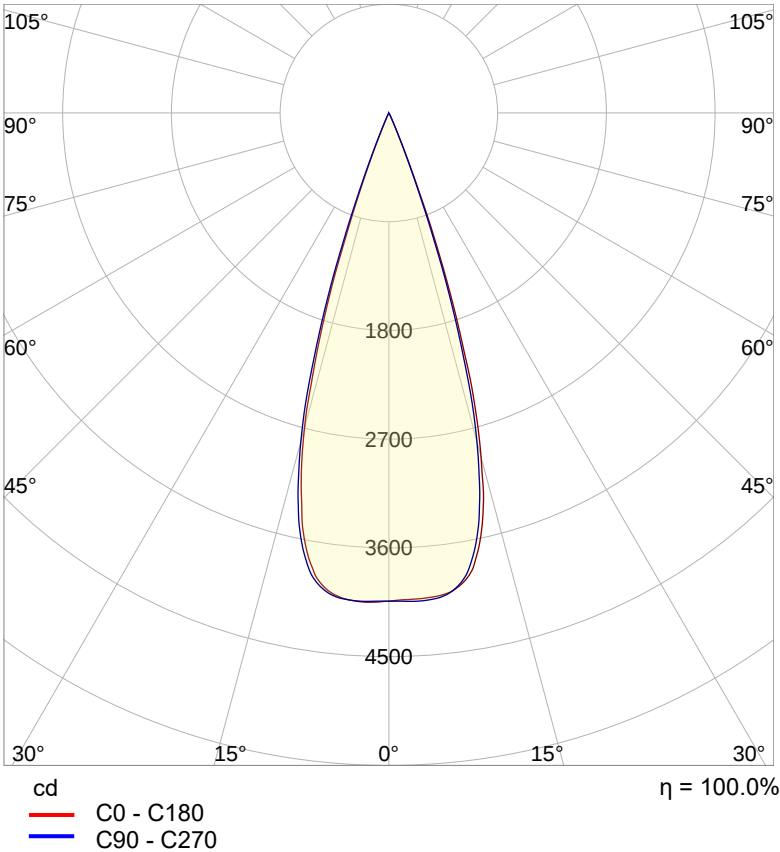
QuikBeam_OutputGain_Enabled_30D_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1162 lm – 0% / 100%
n/a lm/W
4054 cd
5500 K
CRI 0.0

Polar light distribution diagram

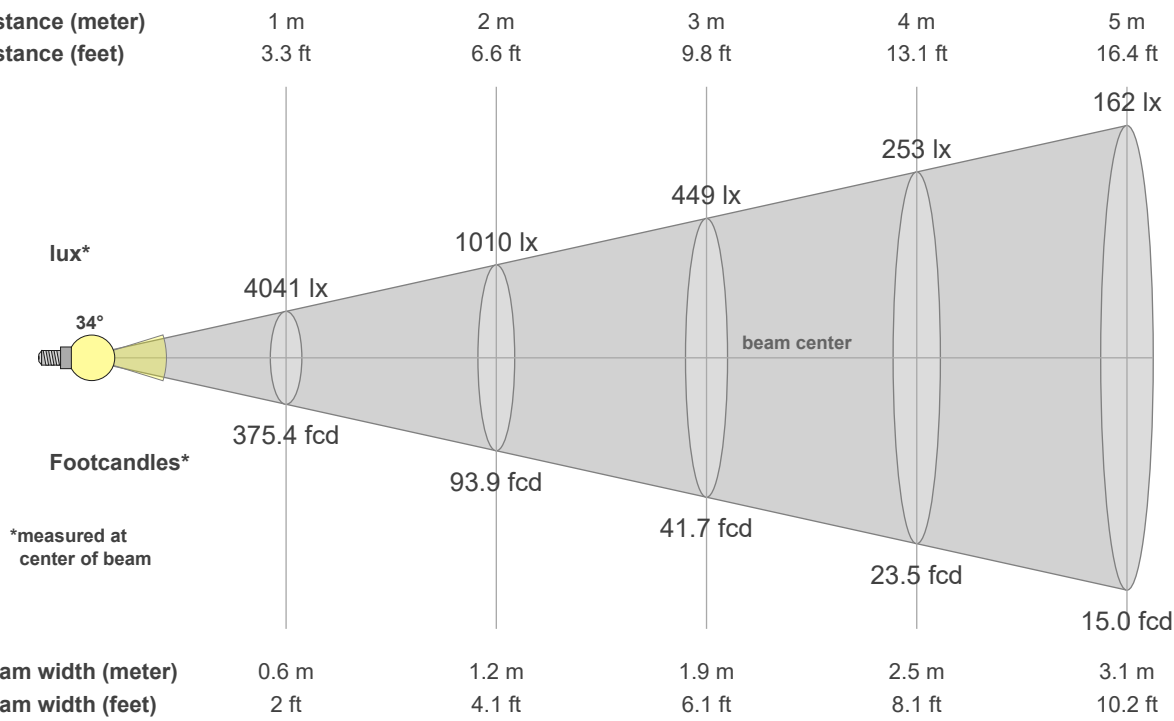


Test report

Light measurement results

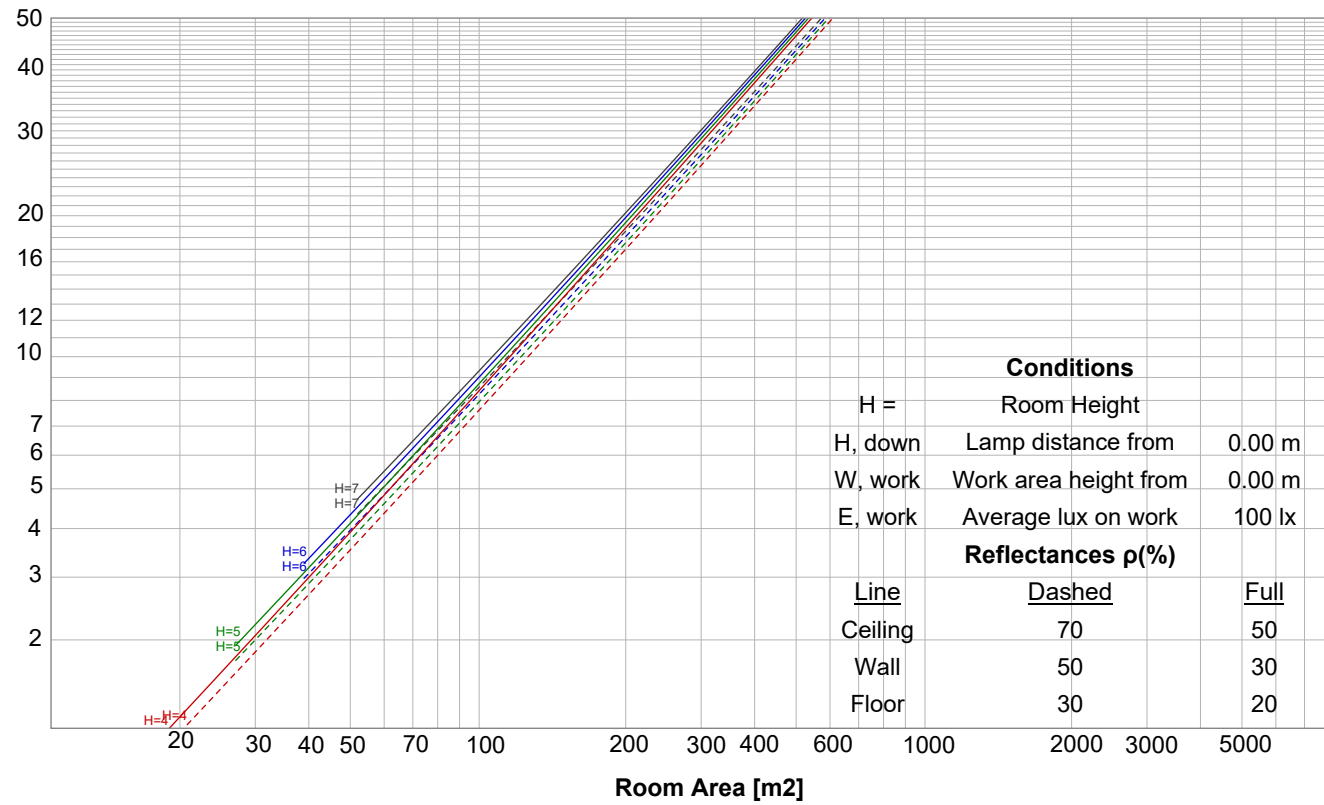
Print date 10/9/2025

Beam details

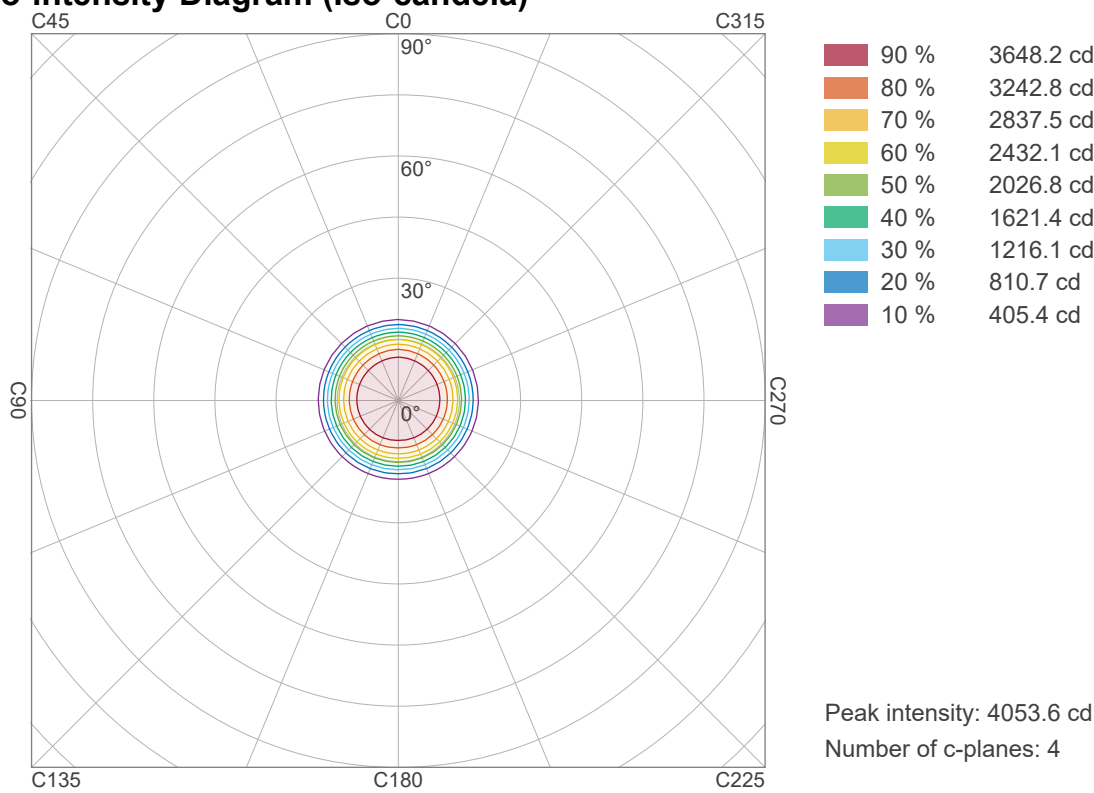


Luminaire budgetary diagram

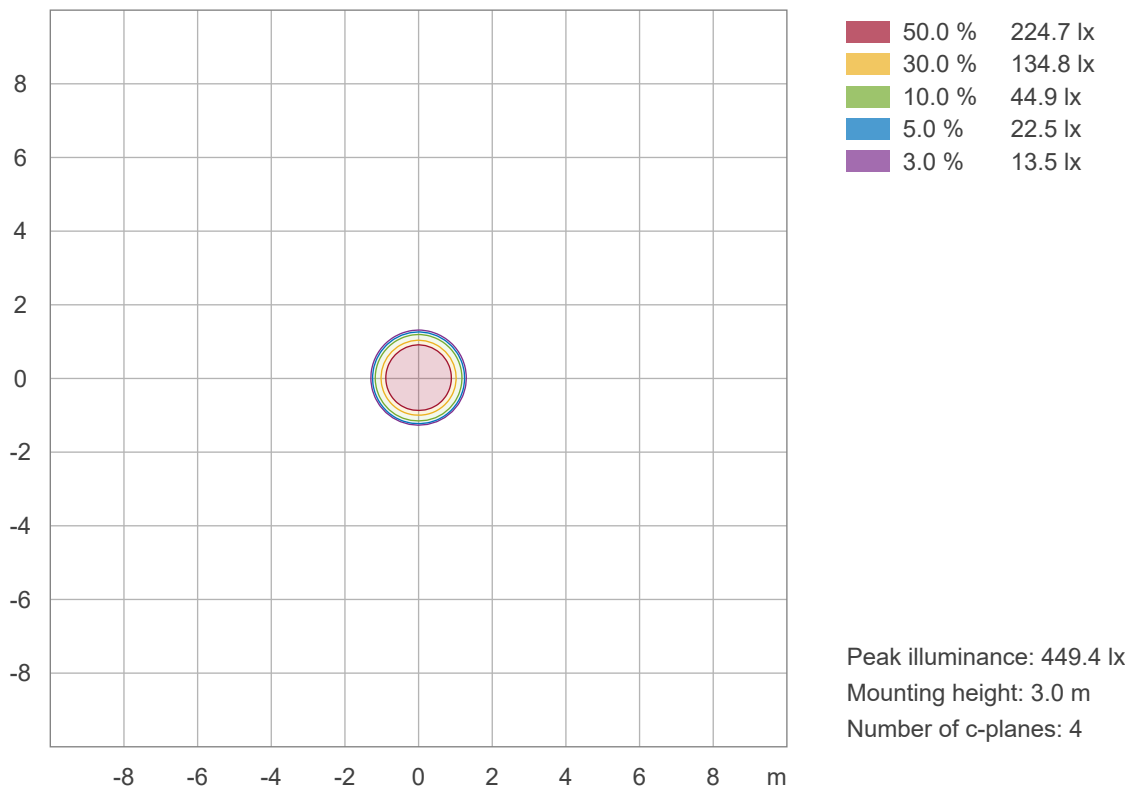
LAMPS (number of lamps)



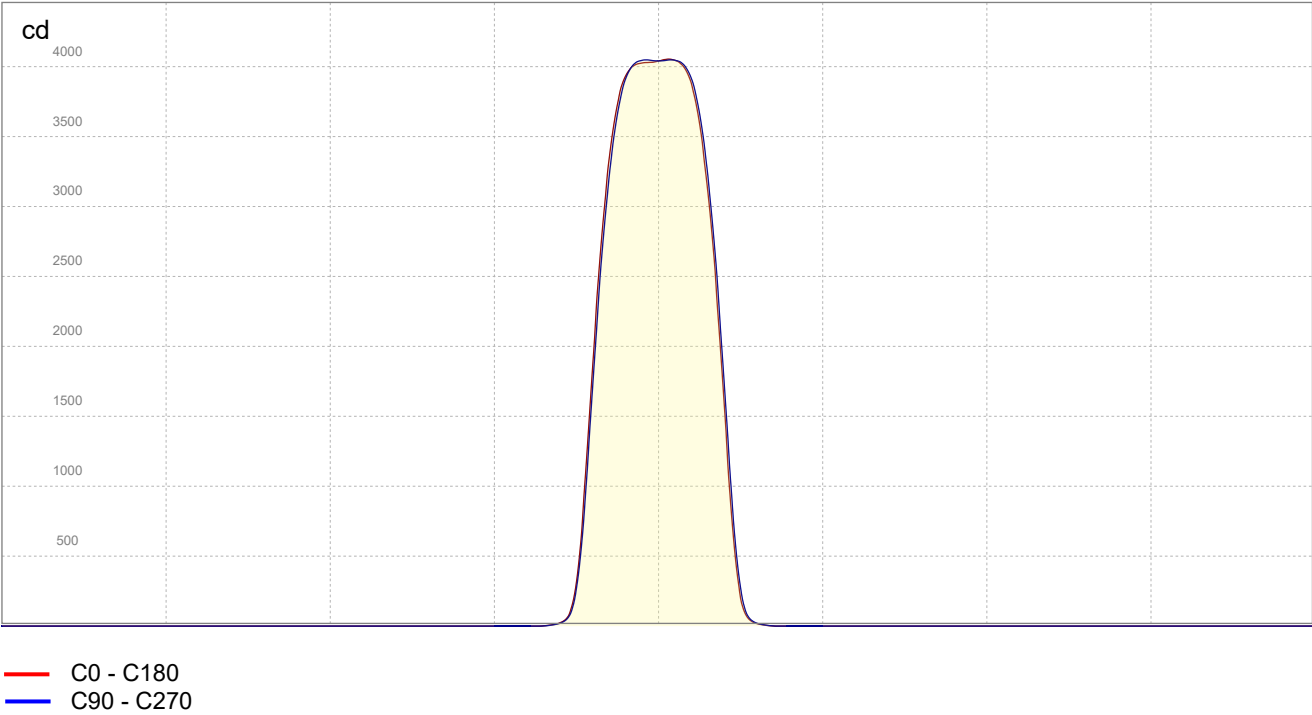
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

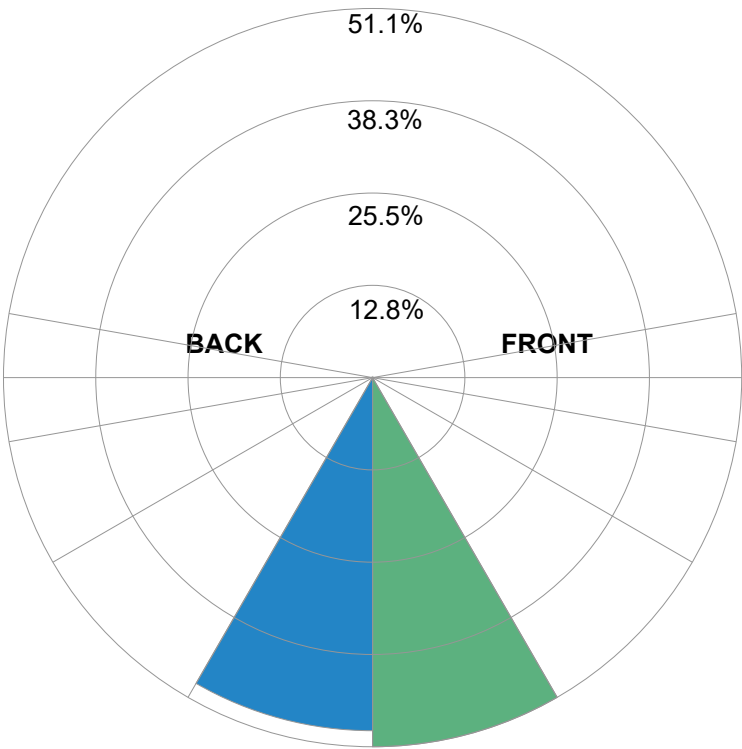


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B2 U0 G0



Forward Light

Low (0-30°)	593.7	lm	51.1%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	567.9	lm	48.9%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1162	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

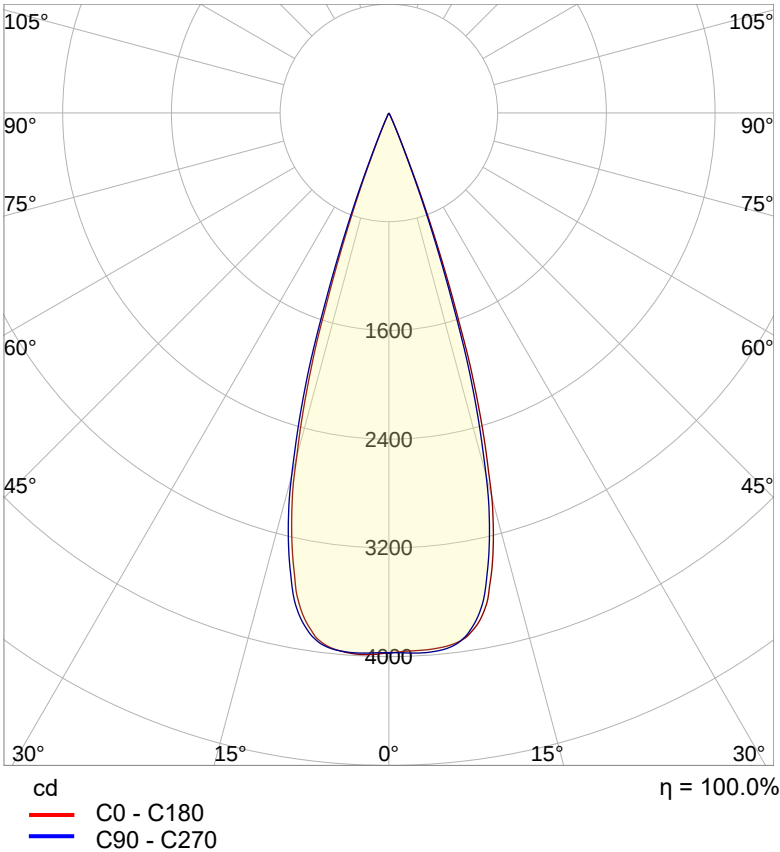
QuikBeam_OutputGain_Enabled_30D_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1142 lm – 0% / 100%
n/a lm/W
3990 cd
6500 K
CRI 85.0

Polar light distribution diagram

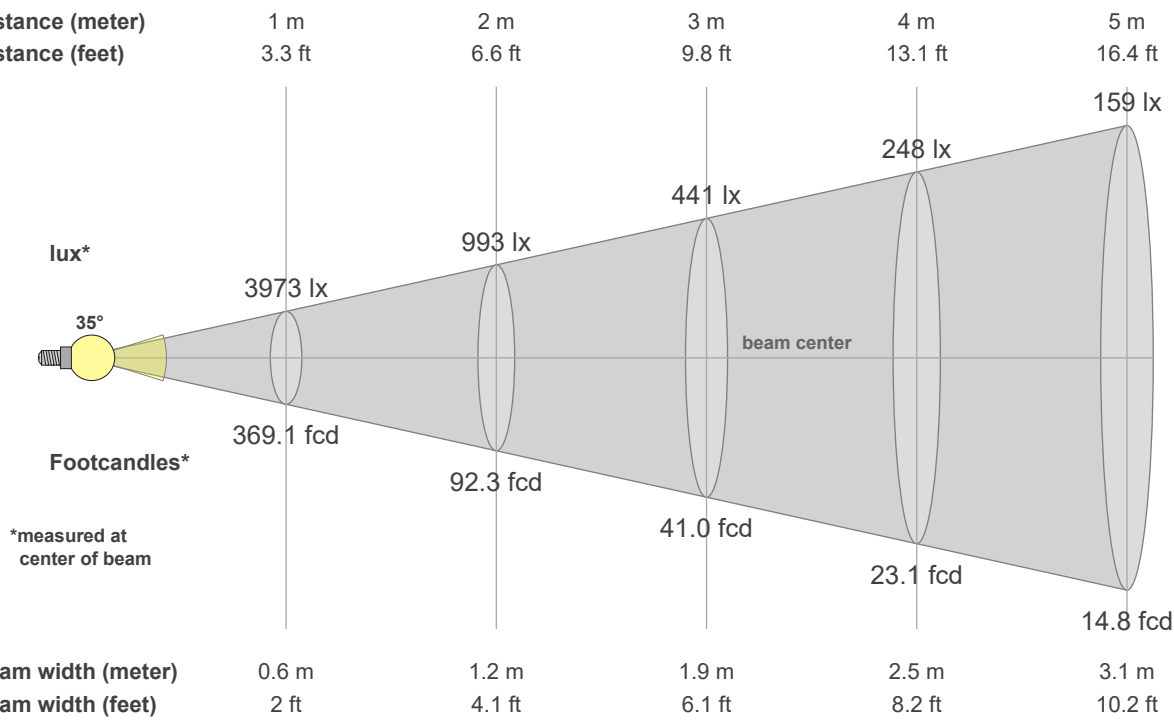


Test report

Light measurement results

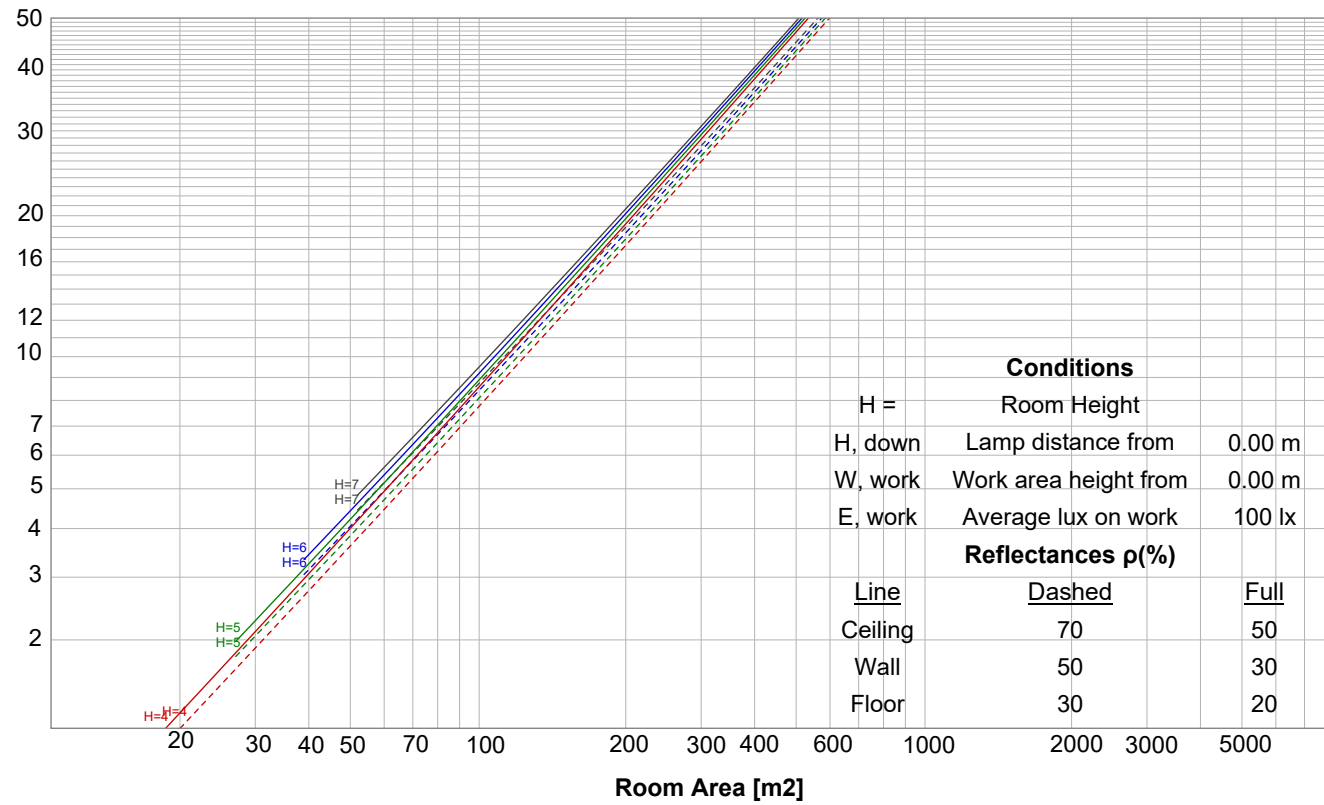
Print date 10/9/2025

Beam details

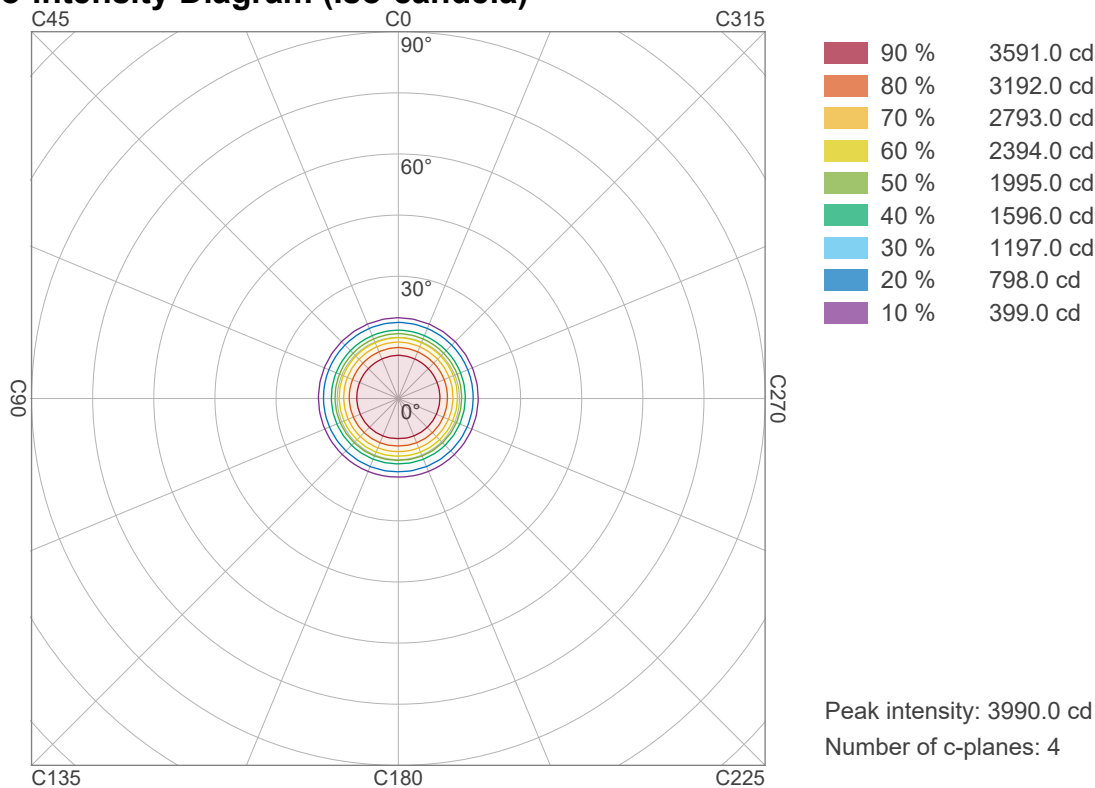


Luminaire budgetary diagram

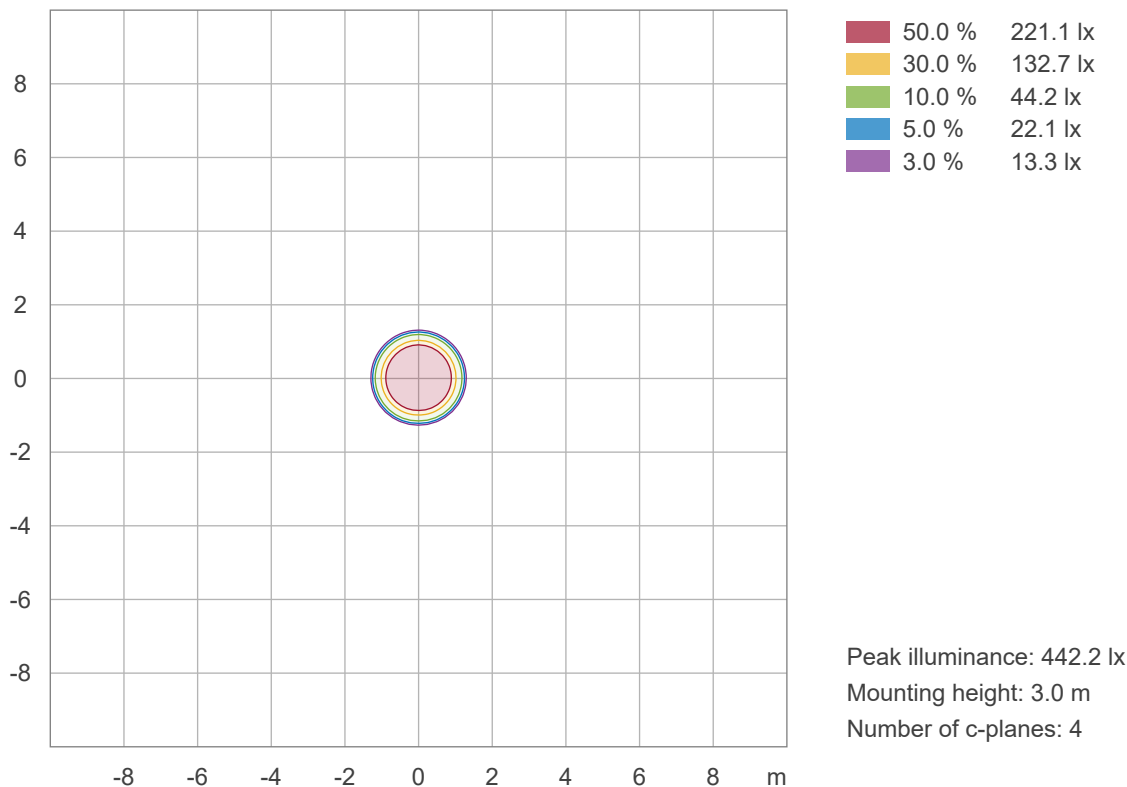
LAMPS (number of lamps)



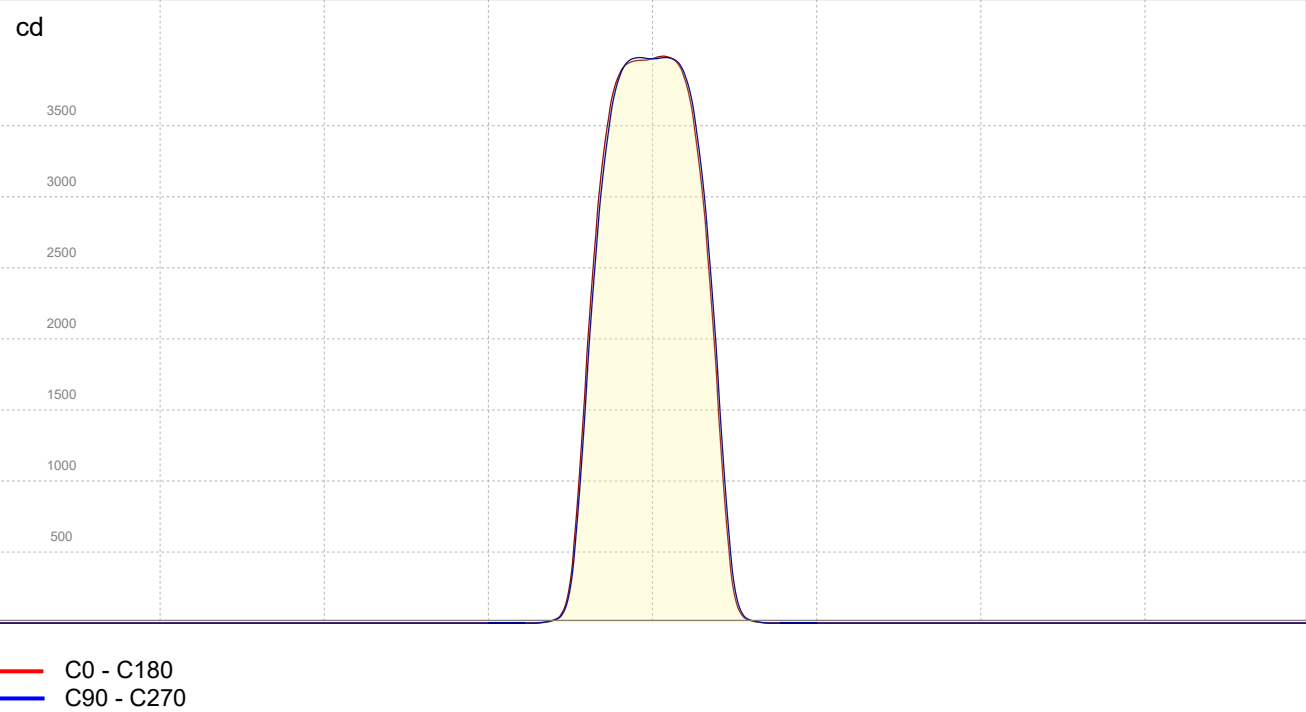
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

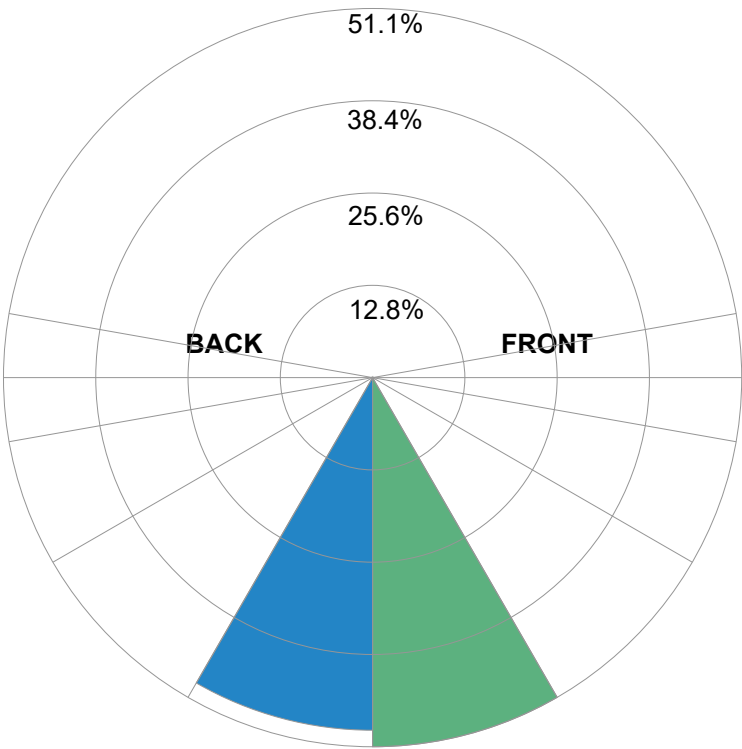


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B2 U0 G0



Forward Light

Low (0-30°)	583.8	lm	51.1%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	557.6	lm	48.8%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1142	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

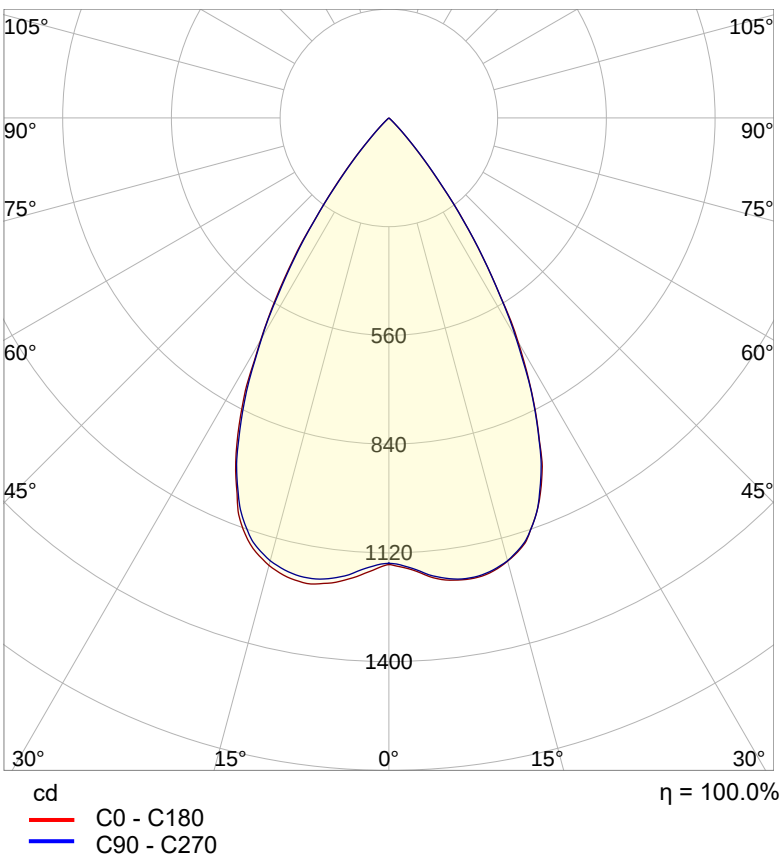
QuikBeam_OutputGain_Enabled_60D_2700K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1124 lm – 0% / 100%
n/a lm/W
1217 cd
2700 K
CRI 0.0

Polar light distribution diagram

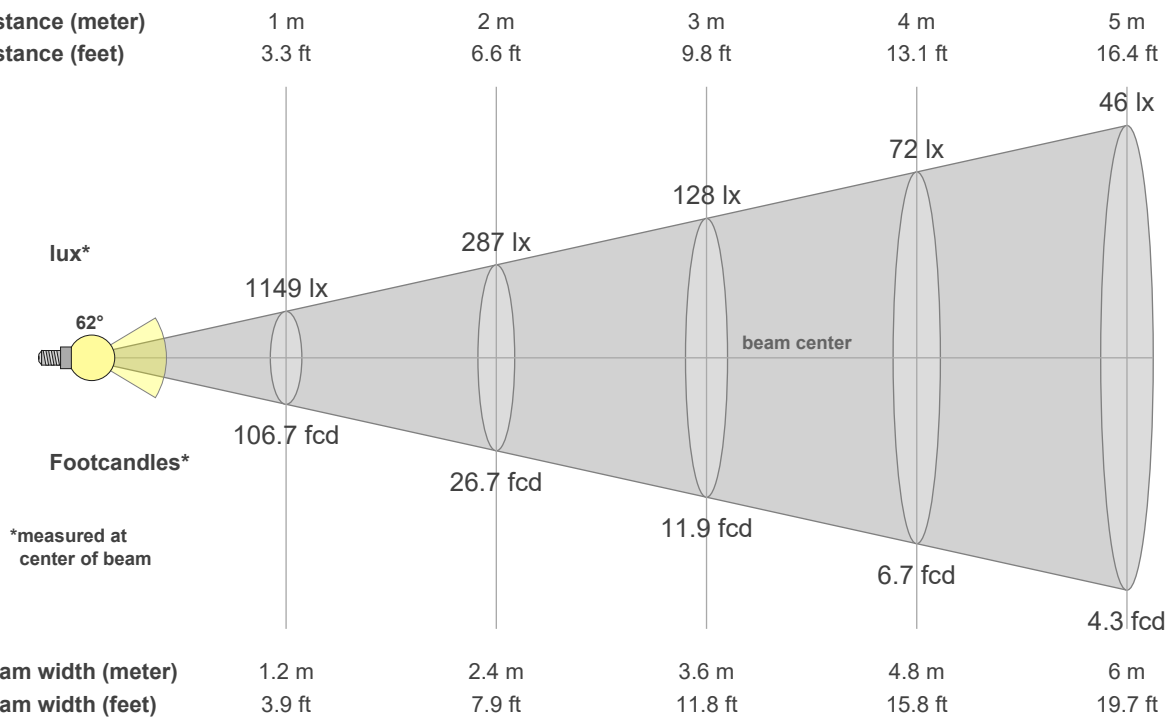


Test report

Light measurement results

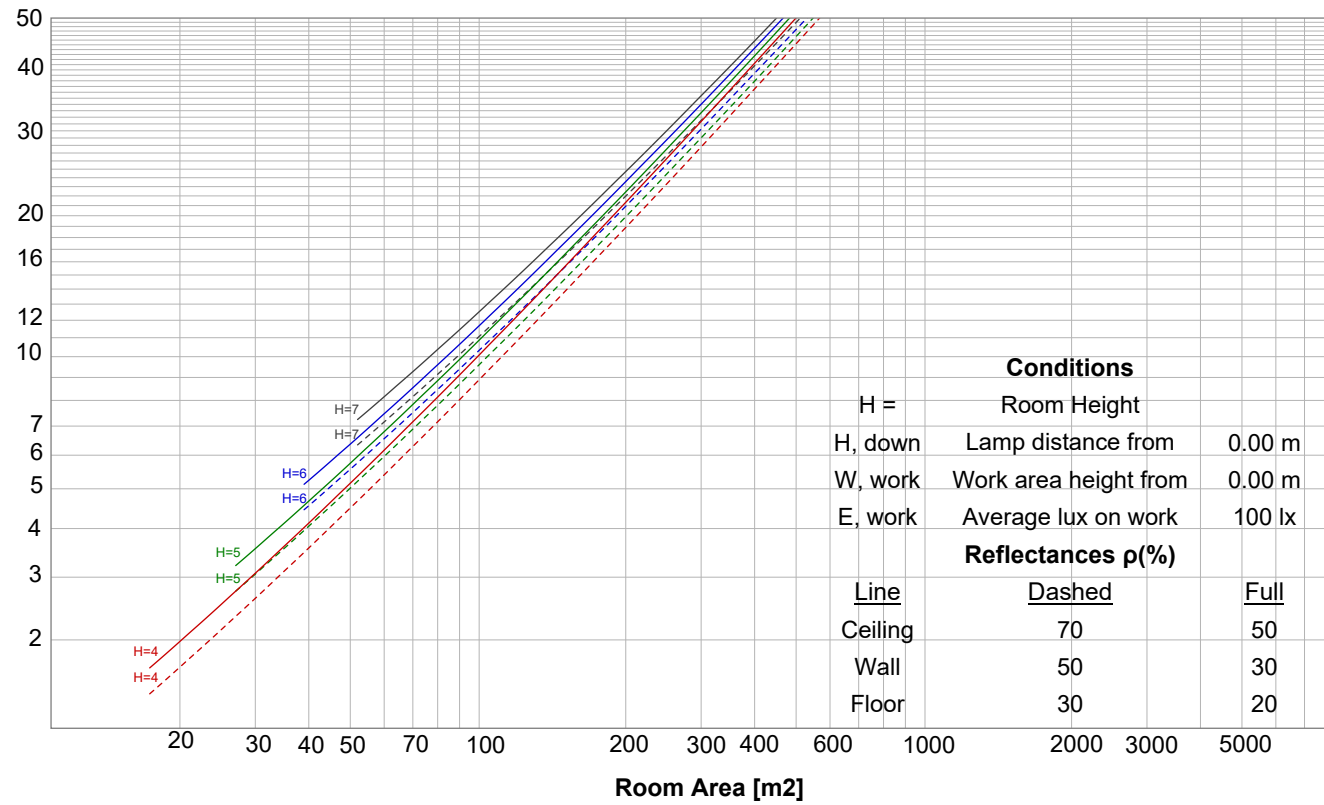
Print date 10/9/2025

Beam details

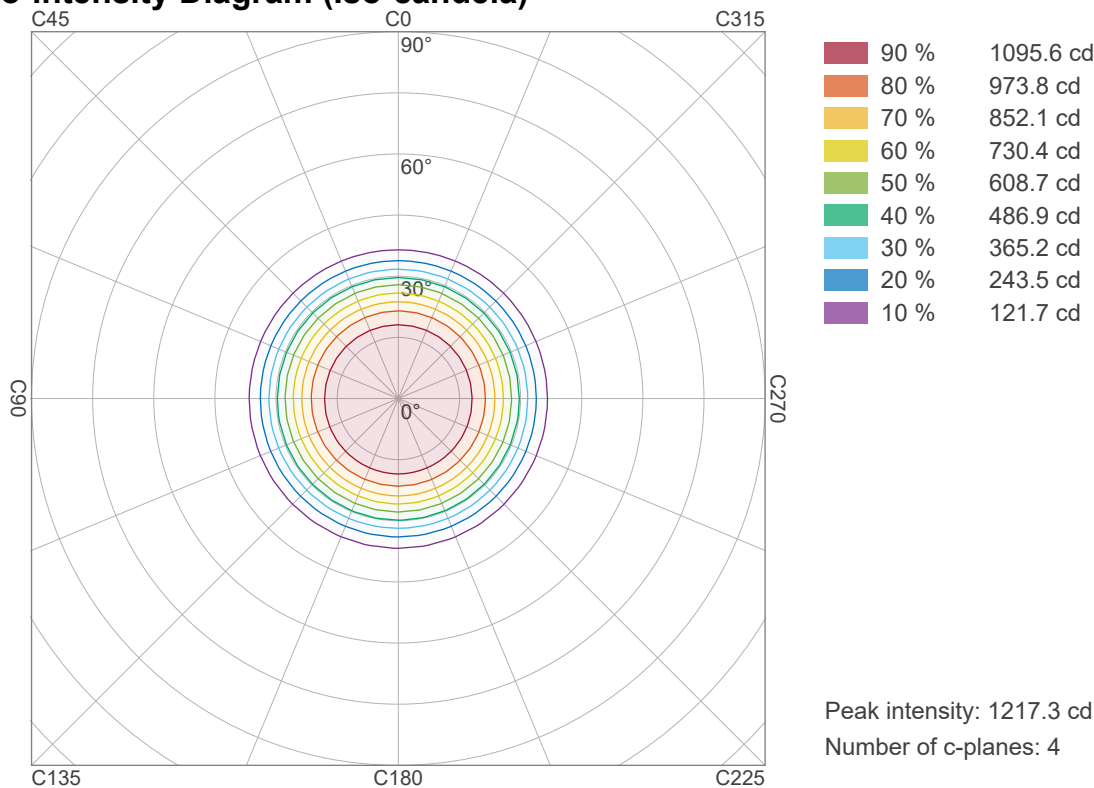


Luminaire budgetary diagram

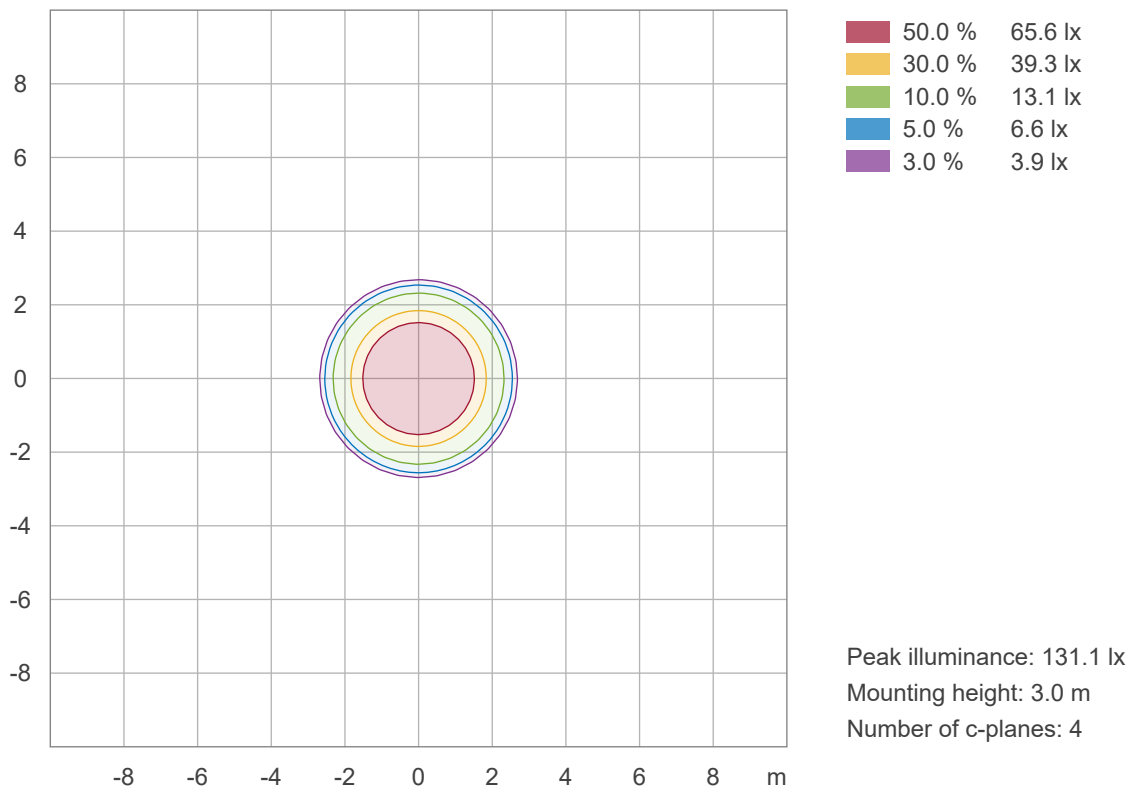
LAMPS (number of lamps)



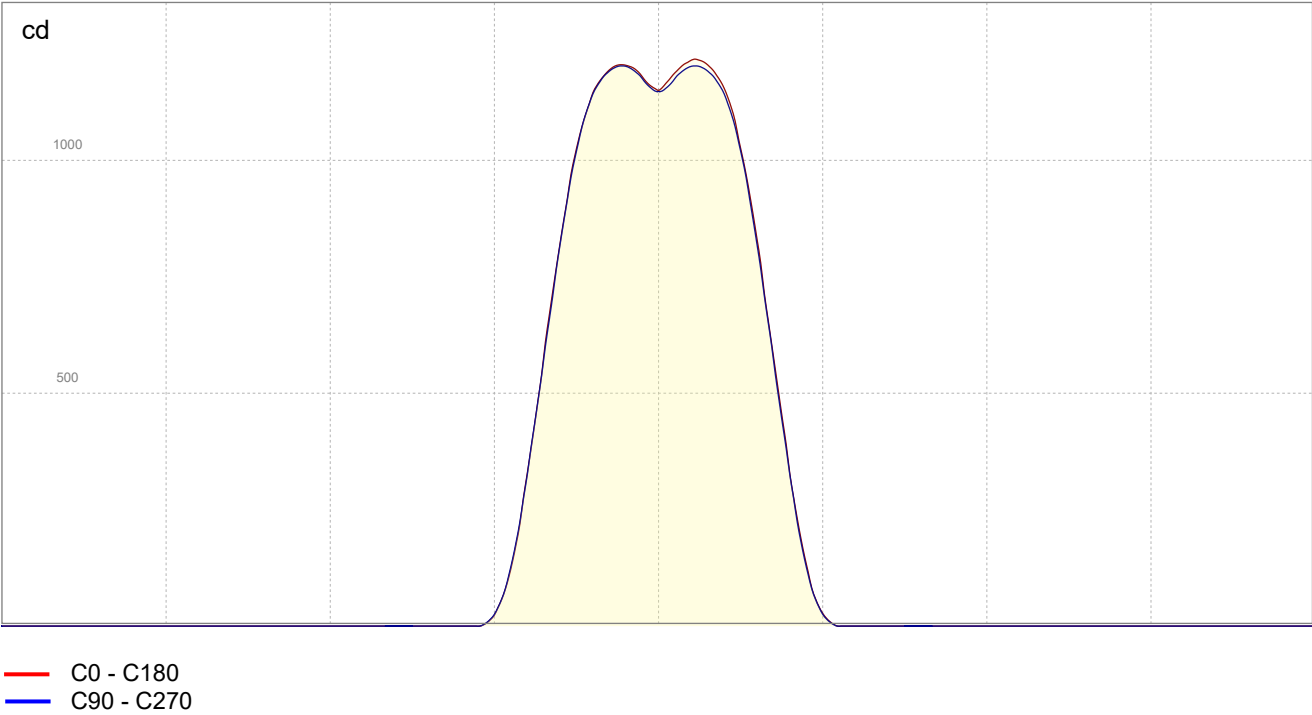
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

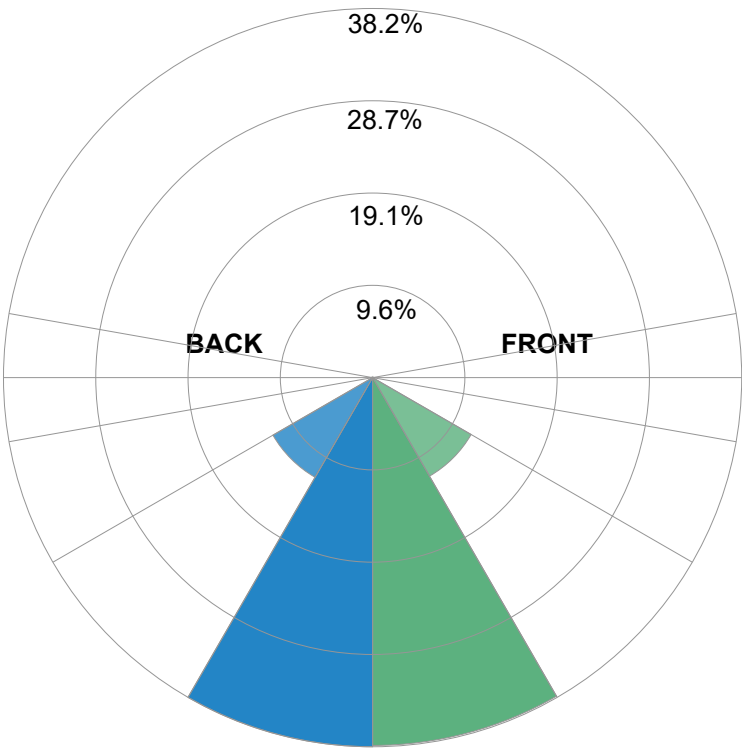


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	428.3	lm	38.1%
Medium (30-60°)	132.5	lm	11.8%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	429.8	lm	38.2%
Medium (30-60°)	134	lm	11.9%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1124	lm	100%
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Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

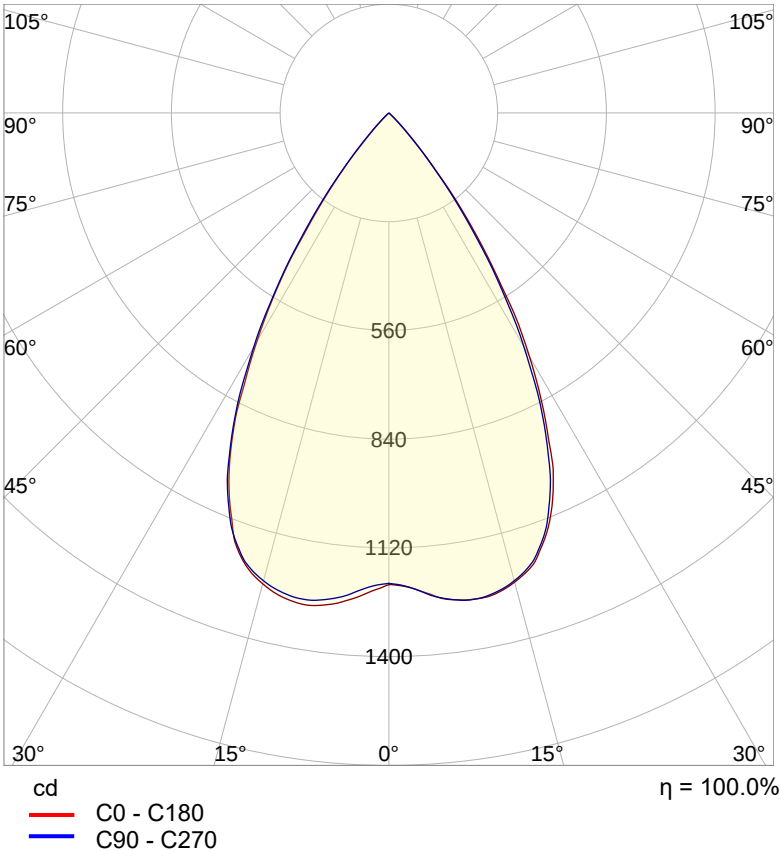
QuikBeam_OutputGain_Enabled_60D_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1190 lm – 0% / 100%
n/a lm/W
1285 cd
3200 K
CRI 0.0

Polar light distribution diagram

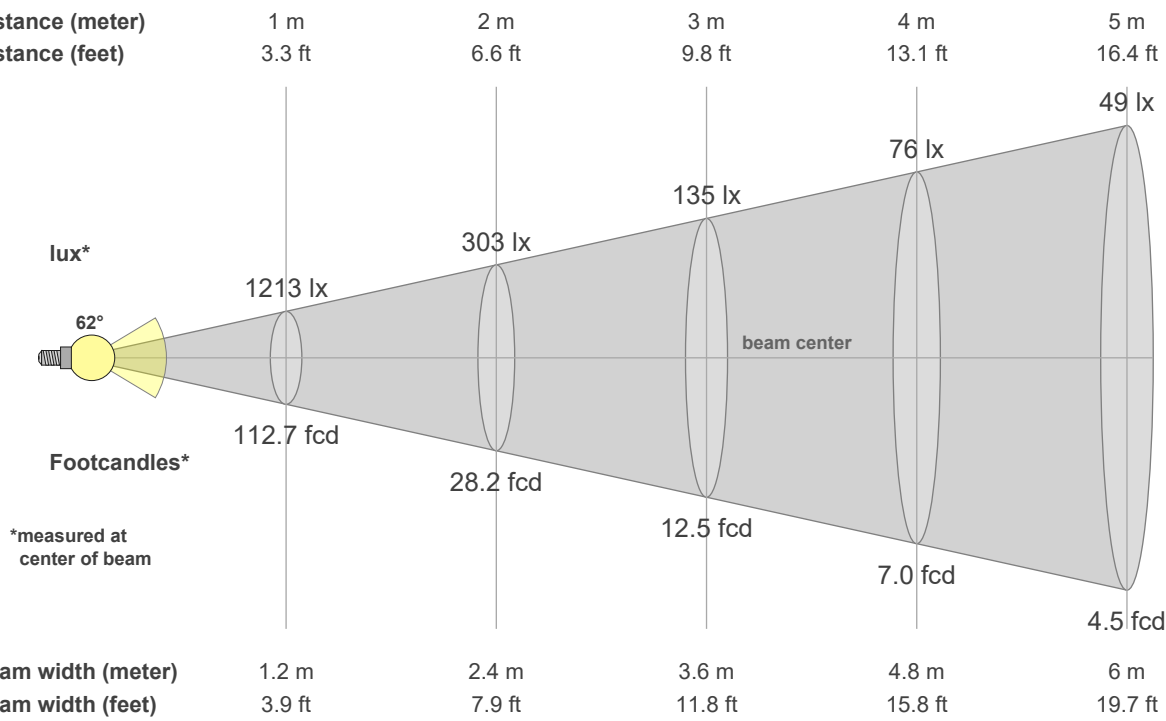


Test report

Light measurement results

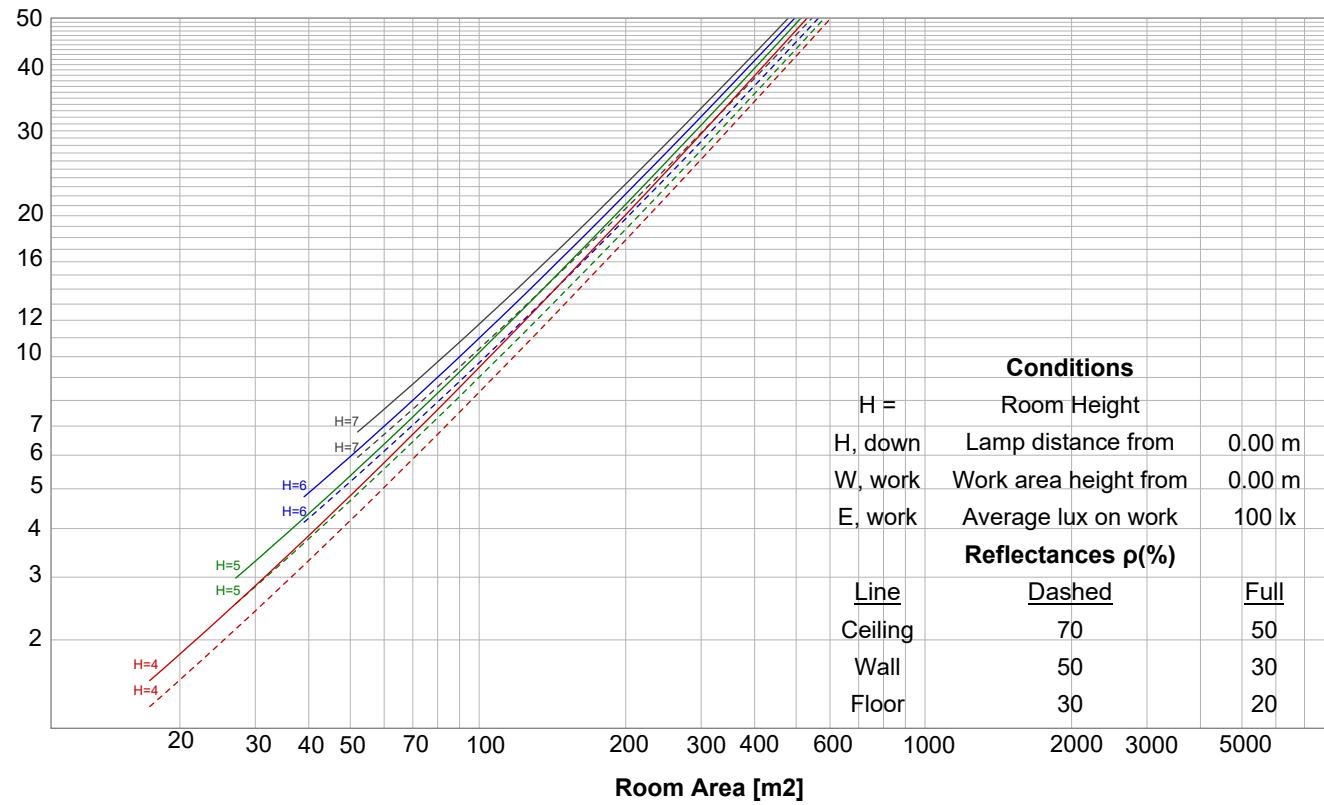
Print date 10/9/2025

Beam details

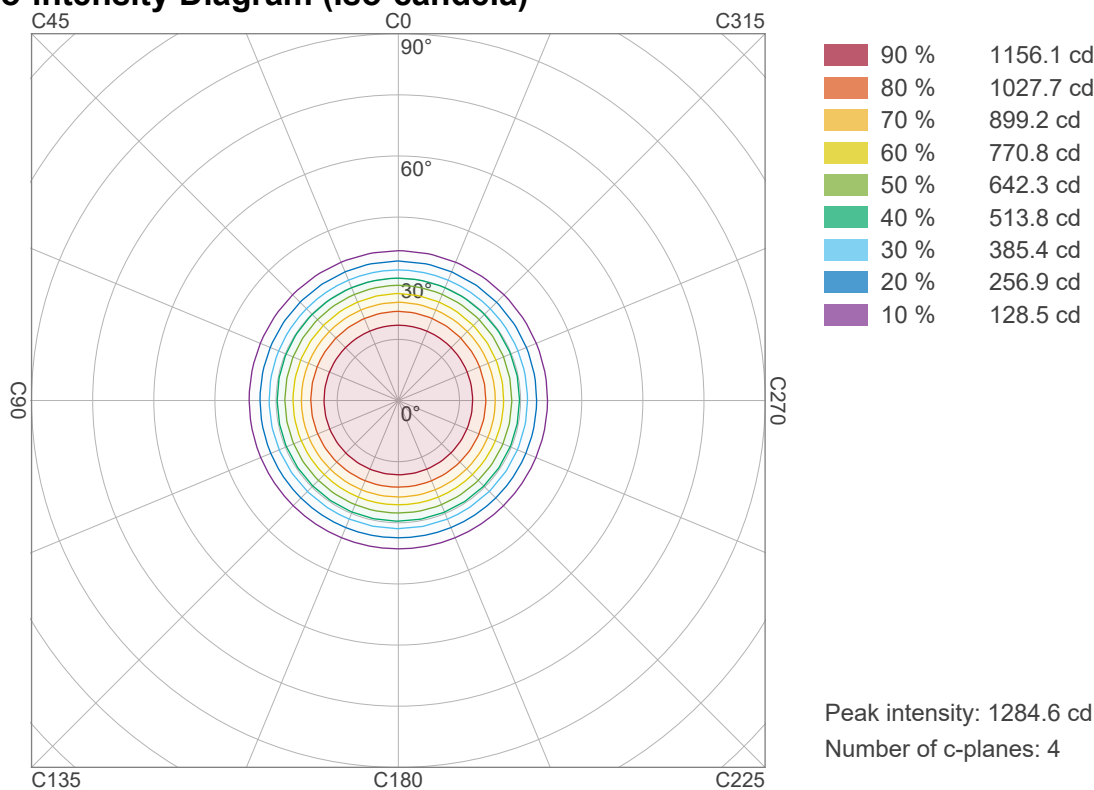


Luminaire budgetary diagram

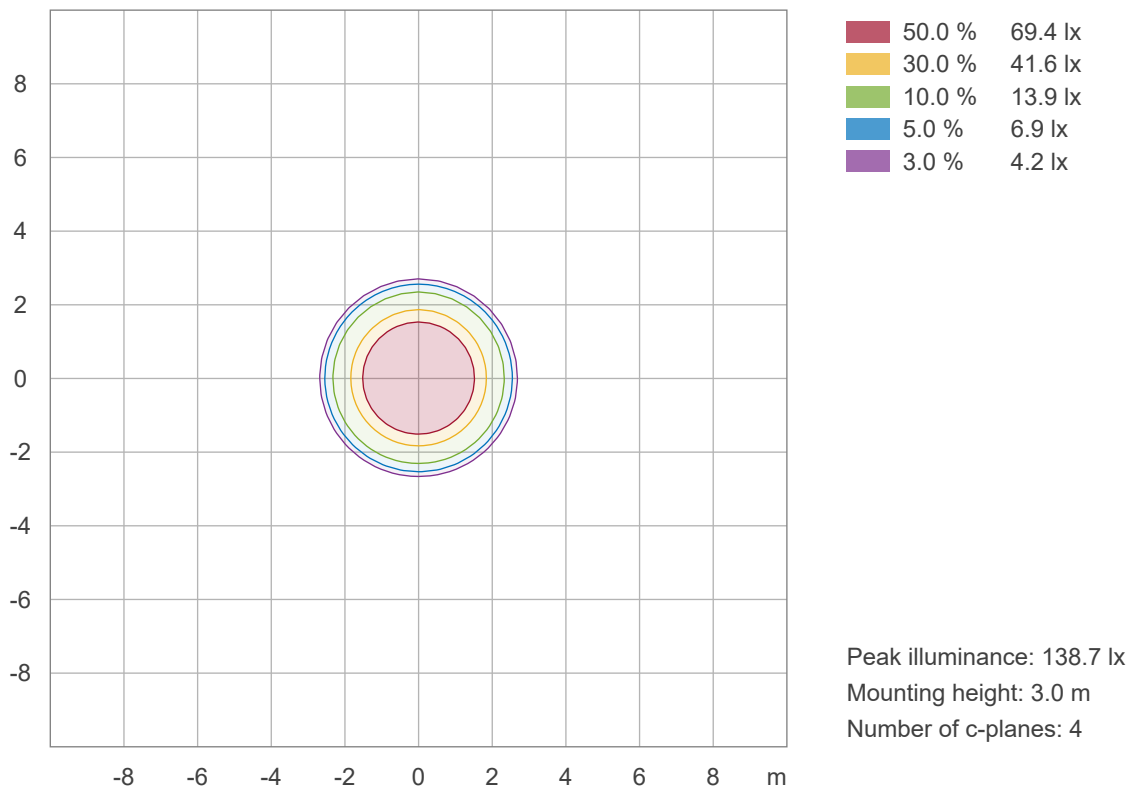
LAMPS (number of lamps)



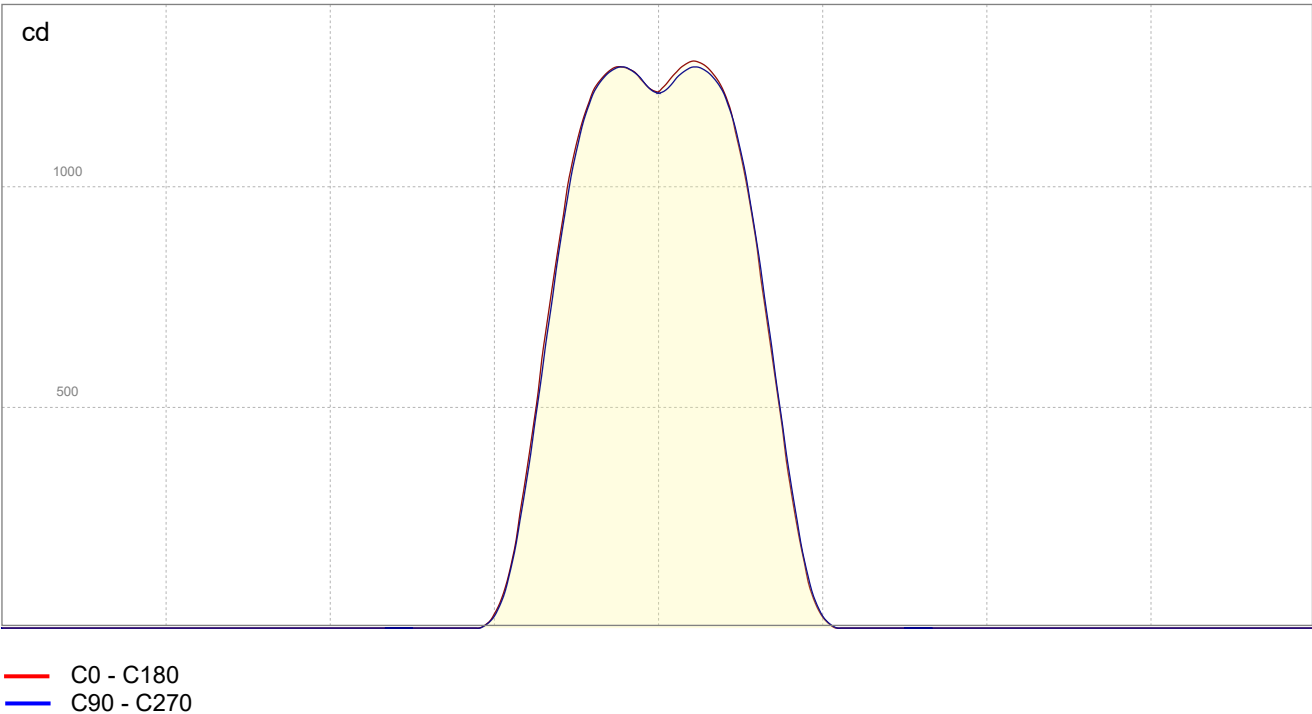
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

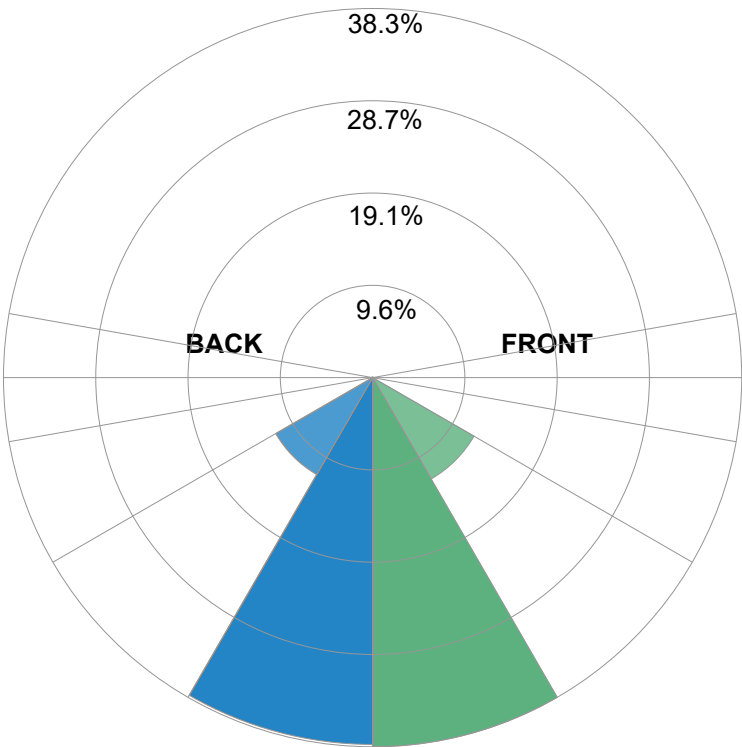


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	455.3	lm	38.3%
Medium (30-60°)	144.4	lm	12.1%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	452.5	lm	38%
Medium (30-60°)	138	lm	11.6%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1190	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

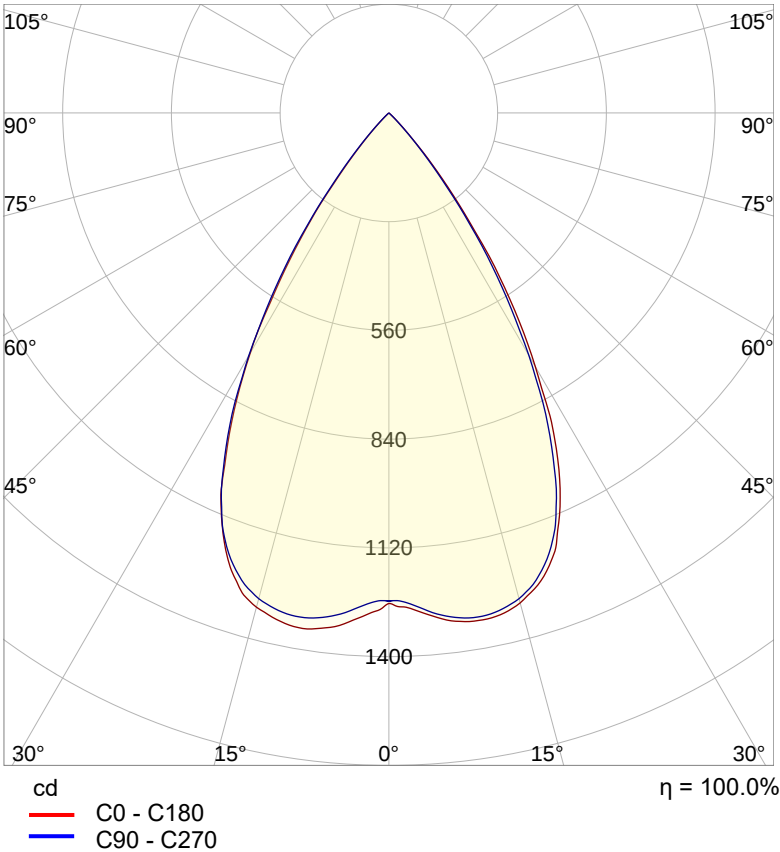
QuikBeam_OutputGain_Enabled_60D_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1239 lm – 0% / 100%
n/a lm/W
1346 cd
4000 K
CRI 0.0

Polar light distribution diagram

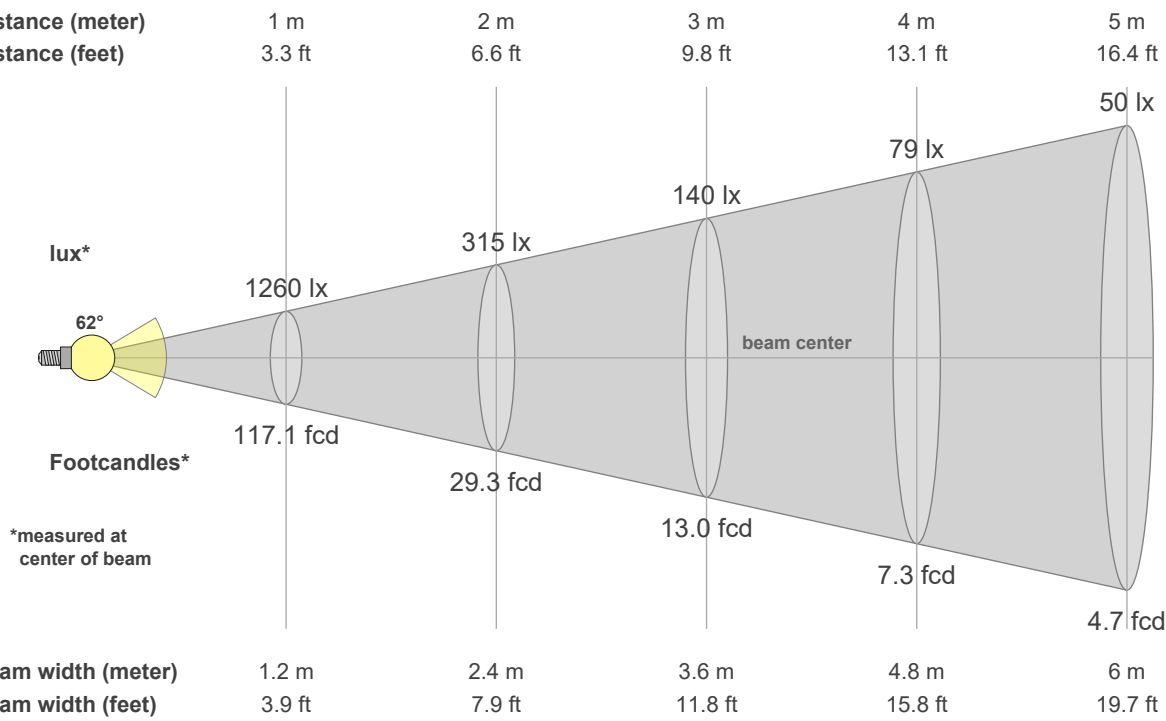


Test report

Light measurement results

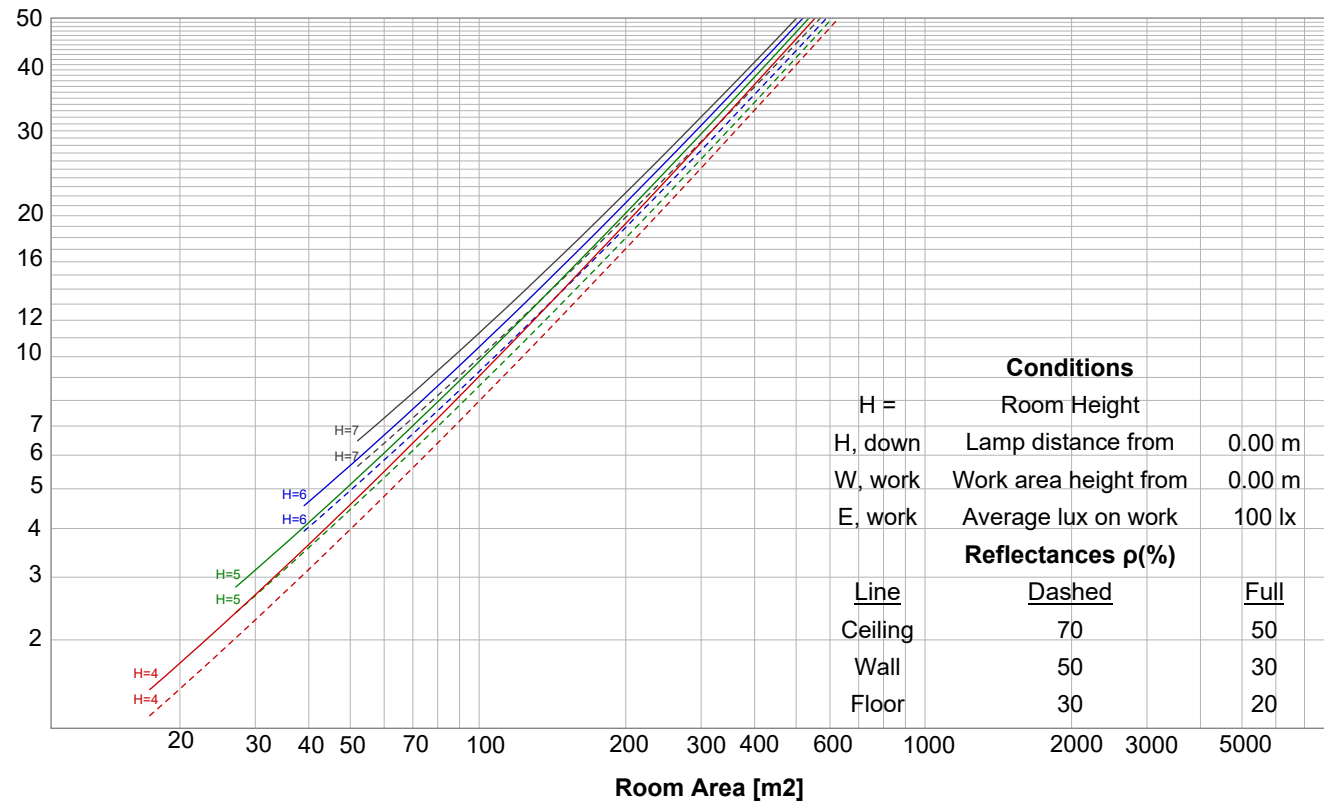
Print date 10/9/2025

Beam details

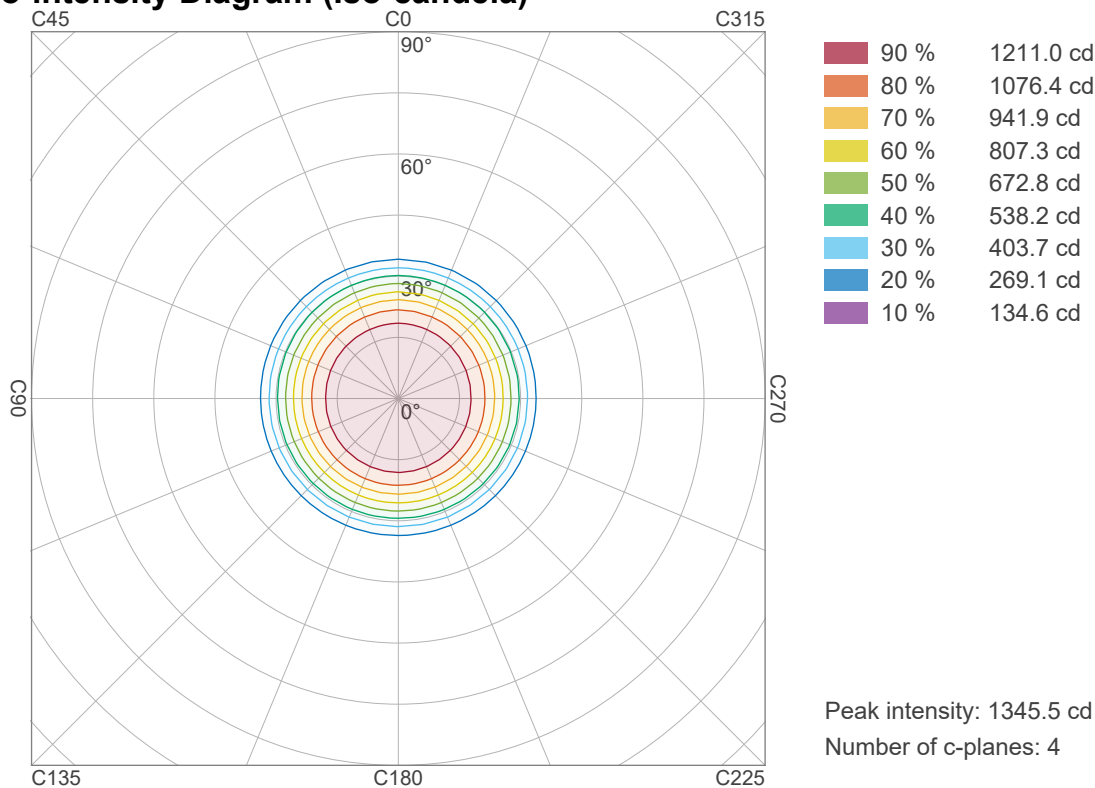


Luminaire budgetary diagram

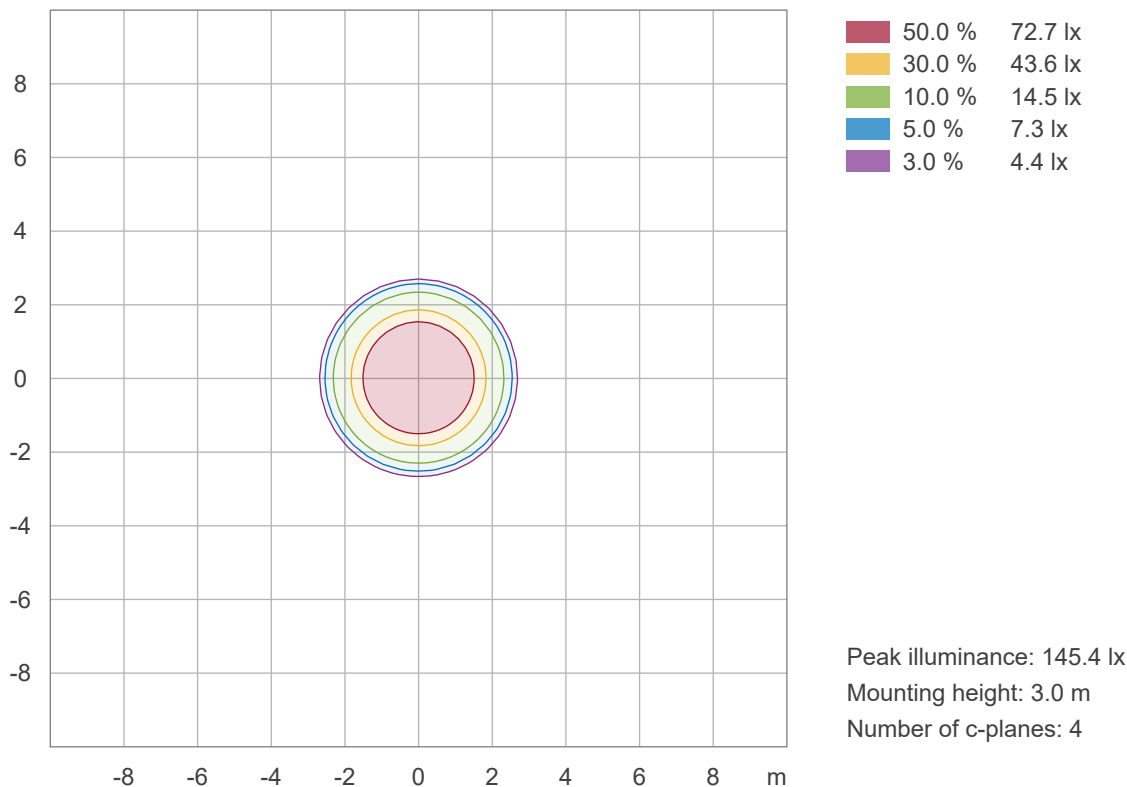
LAMPS (number of lamps)



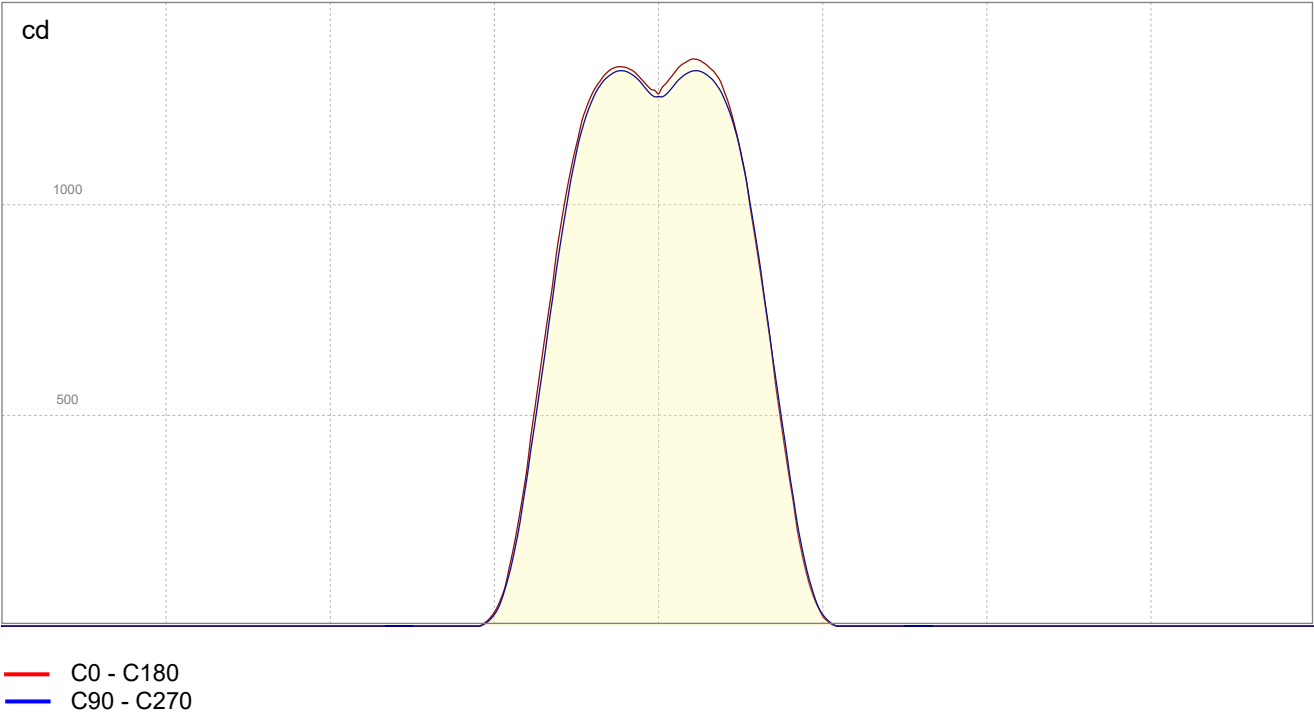
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

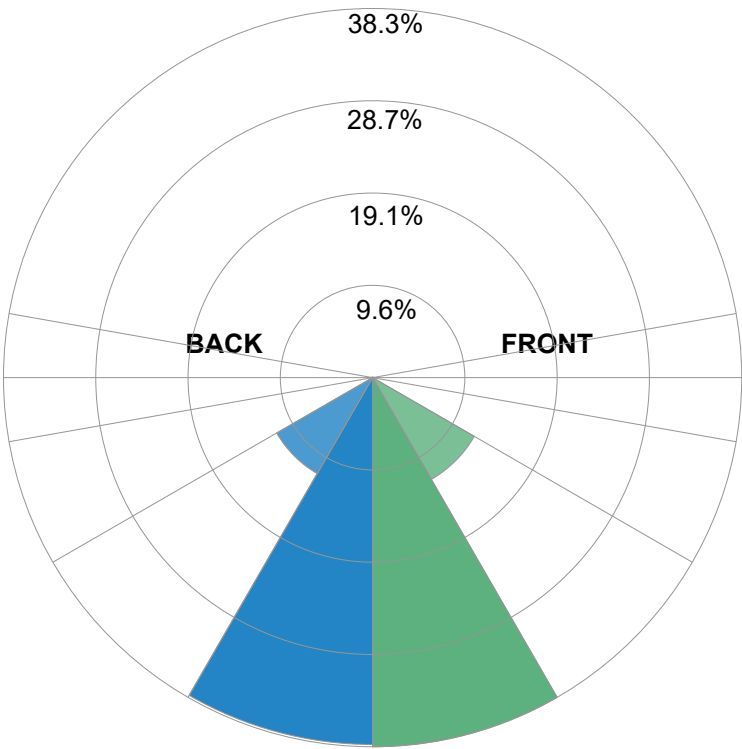


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	474.2	lm	38.3%
Medium (30-60°)	150.9	lm	12.2%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	471.3	lm	38%
Medium (30-60°)	142.3	lm	11.5%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1239	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

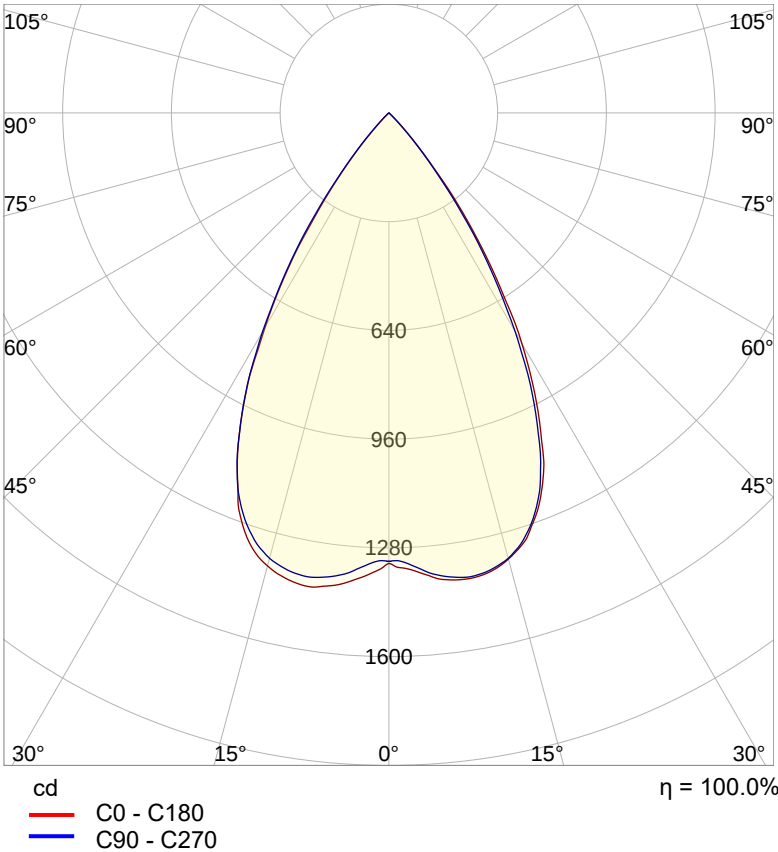
QuikBeam_OutputGain_Enabled_60D_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1285 lm – 0% / 100%
n/a lm/W
1413 cd
5500 K
CRI 0.0

Polar light distribution diagram

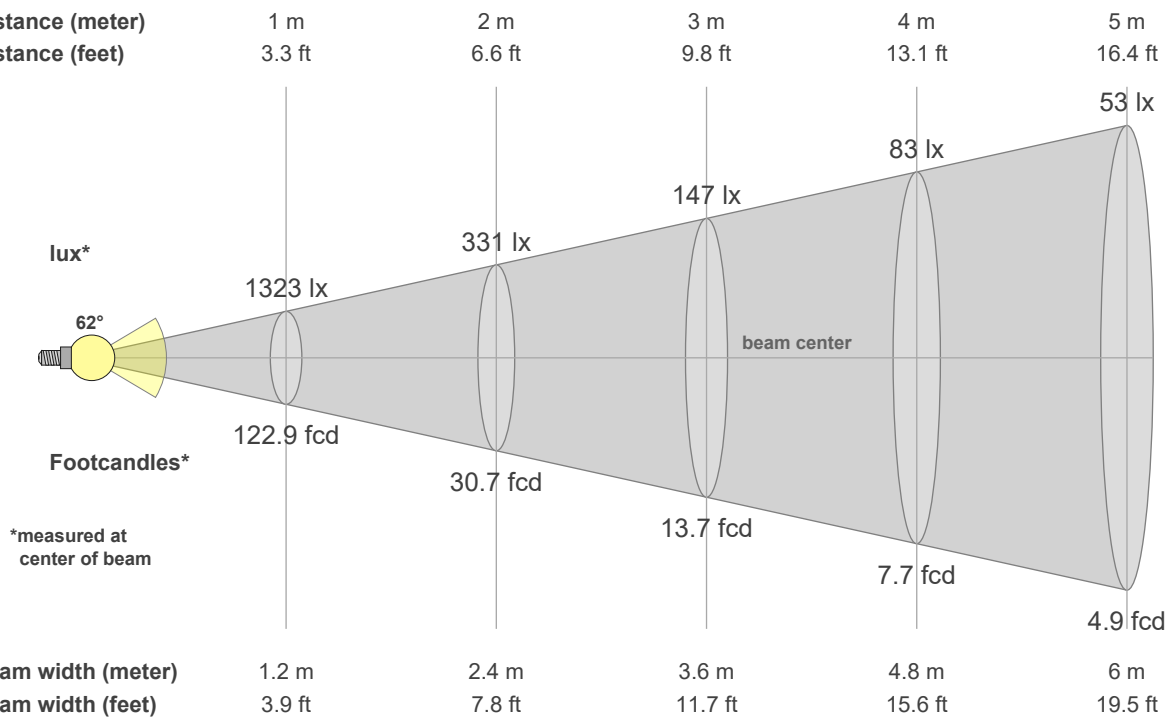


Test report

Light measurement results

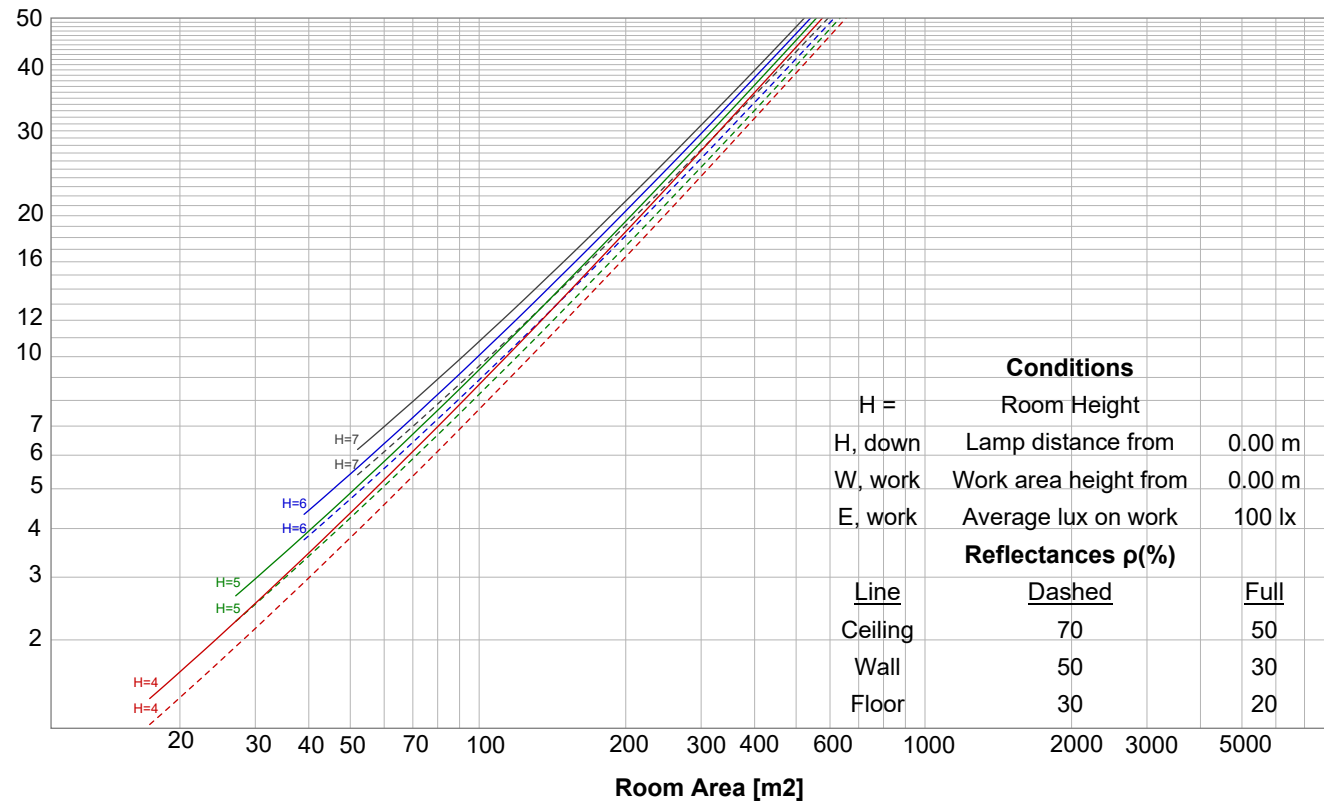
Print date 10/9/2025

Beam details

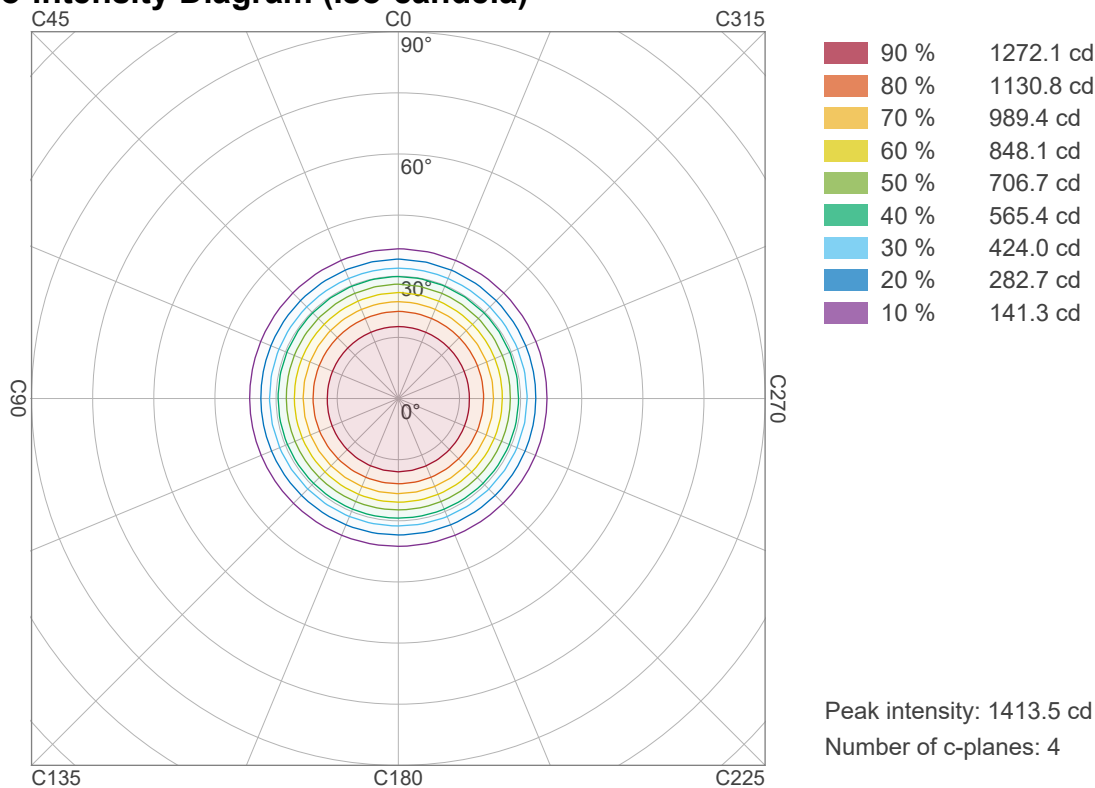


Luminaire budgetary diagram

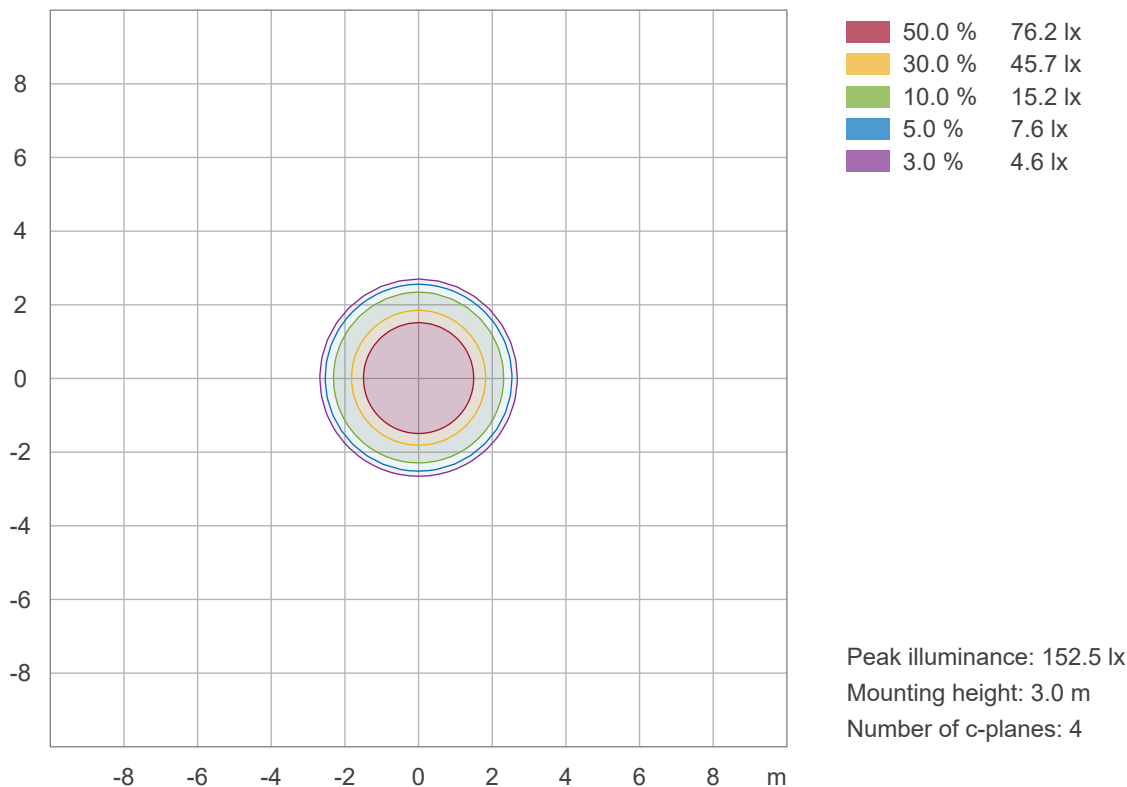
LAMPS (number of lamps)



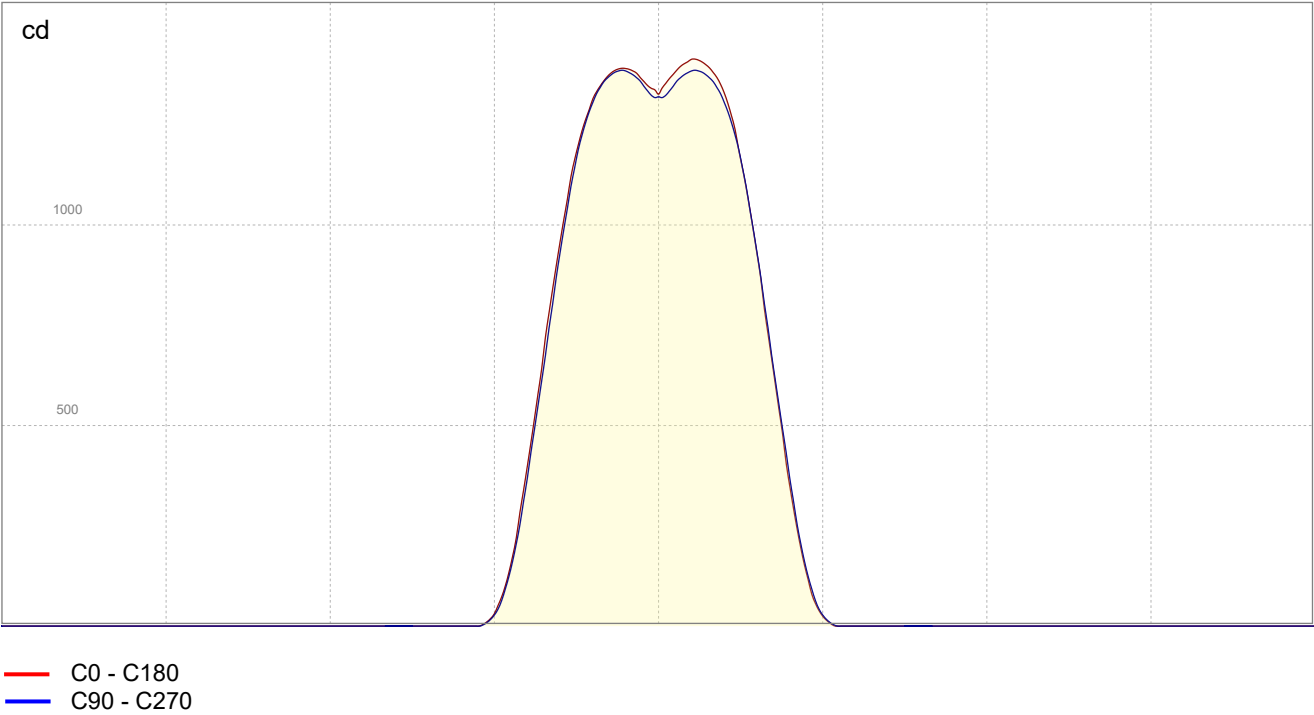
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

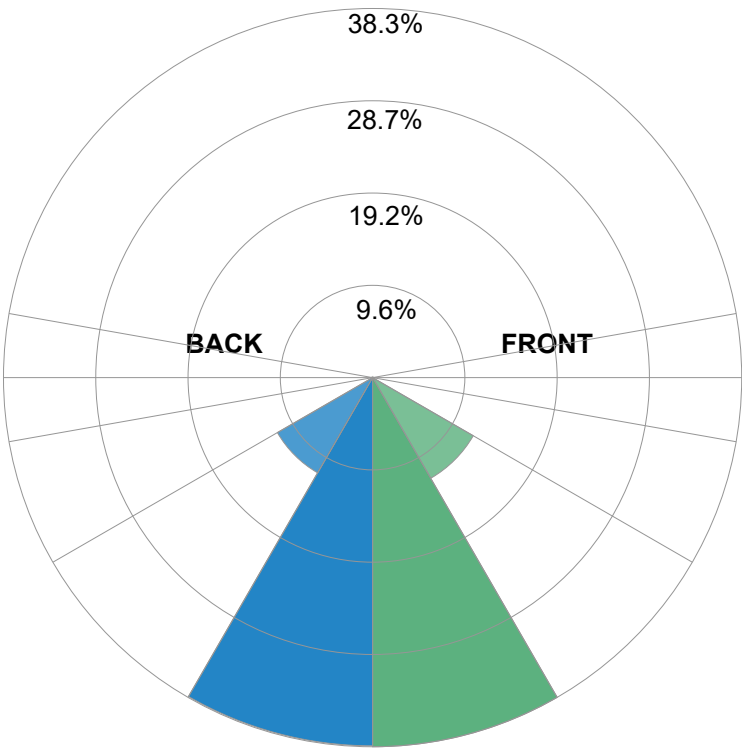


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	492.3	lm	38.3%
Medium (30-60°)	155	lm	12.1%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	491.1	lm	38.2%
Medium (30-60°)	146.6	lm	11.4%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1285	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

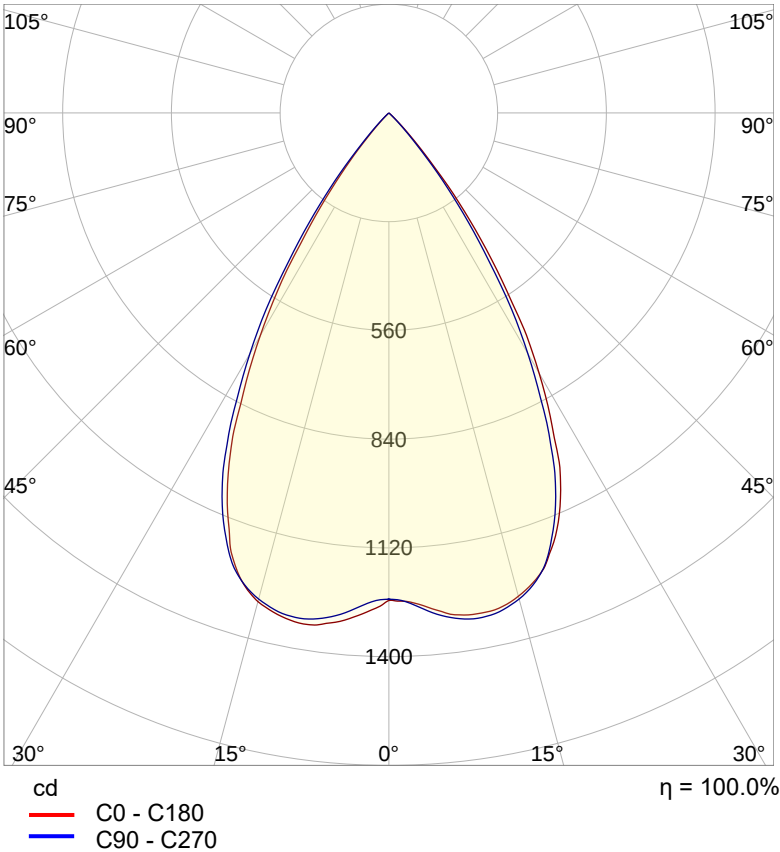
QuikBeam_OutputGain_Enabled_60D_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

1224 lm – 0% / 100%
n/a lm/W
1334 cd
6500 K
CRI 0.0

Polar light distribution diagram

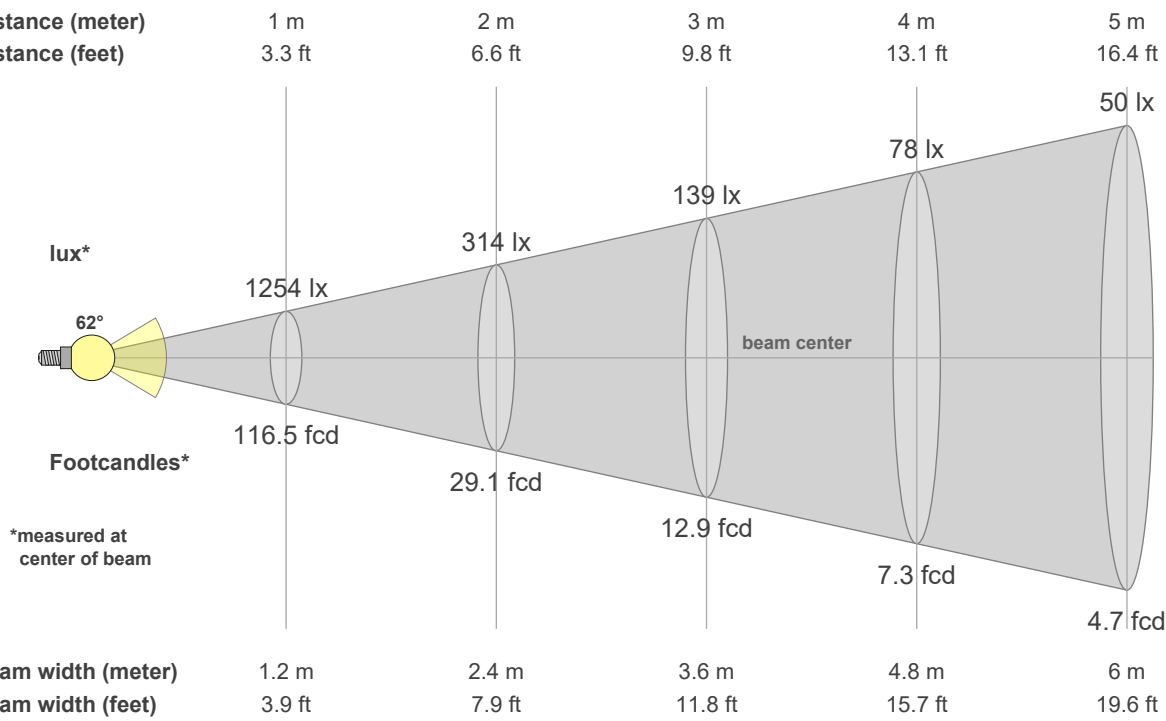


Test report

Light measurement results

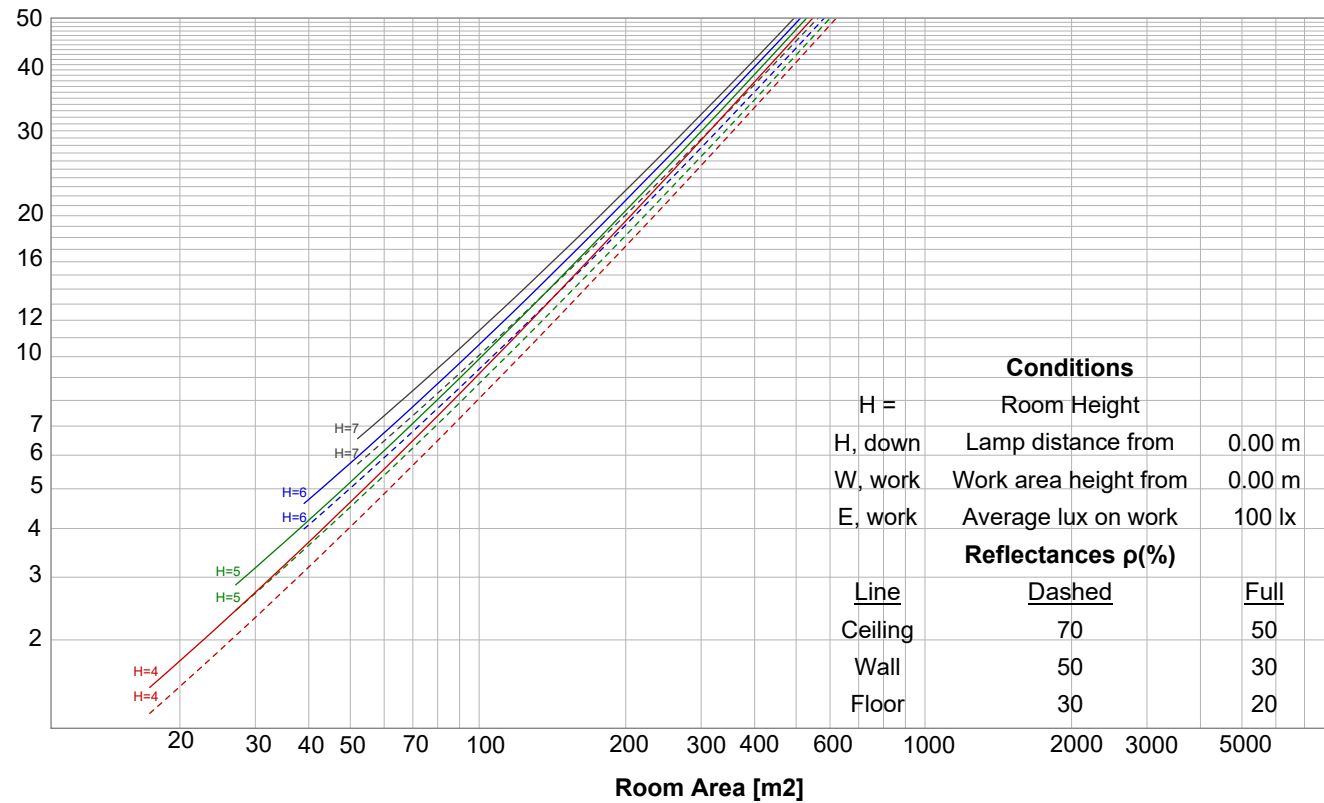
Print date 10/9/2025

Beam details

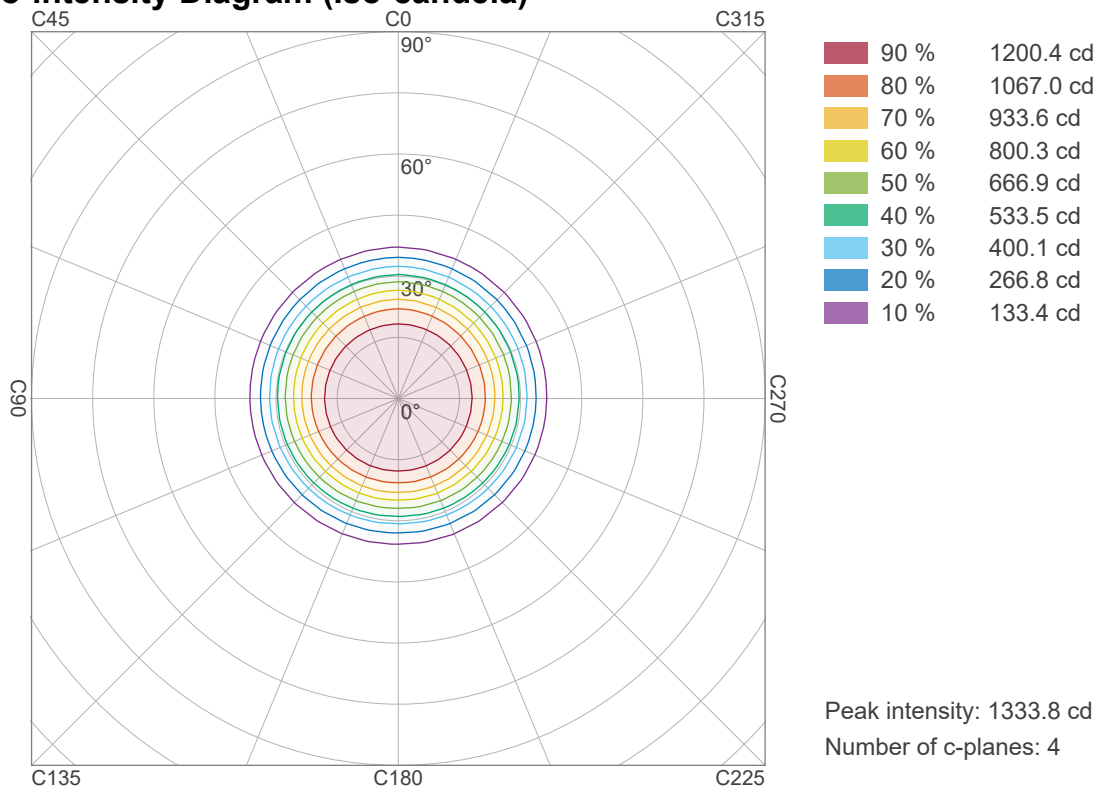


Luminaire budgetary diagram

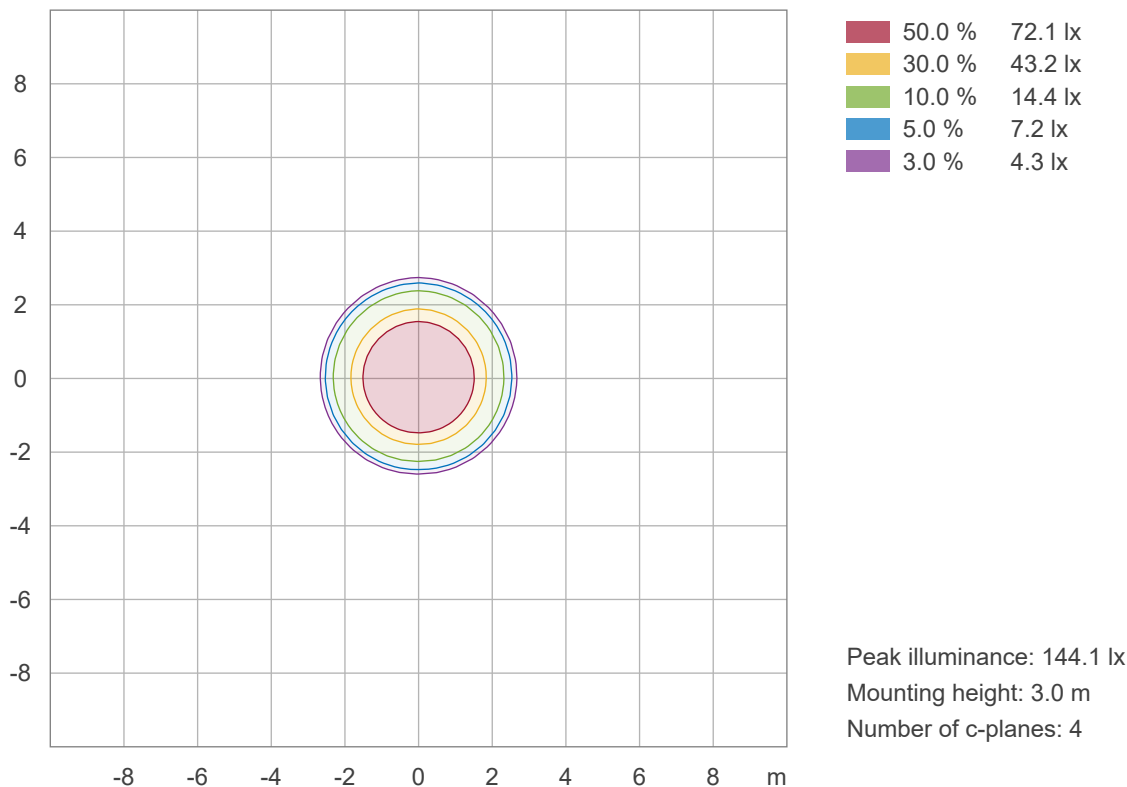
LAMPS (number of lamps)



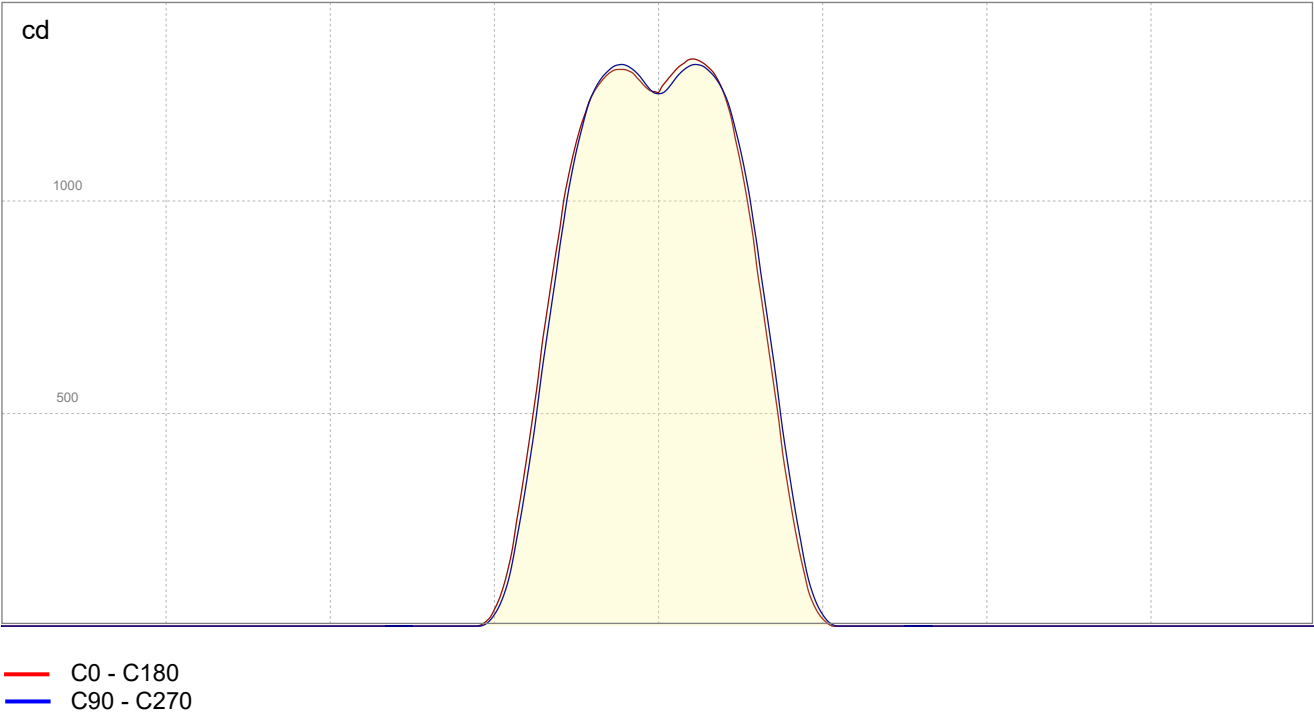
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

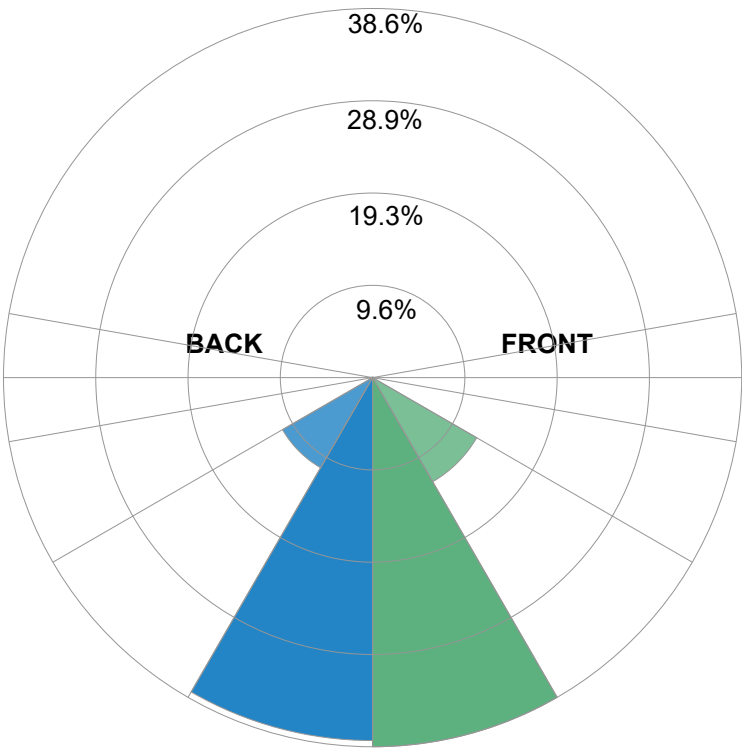


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	472.4	lm	38.6%
Medium (30-60°)	153.8	lm	12.6%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	464.4	lm	38%
Medium (30-60°)	133.1	lm	10.9%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	1224	lm	100%
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Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

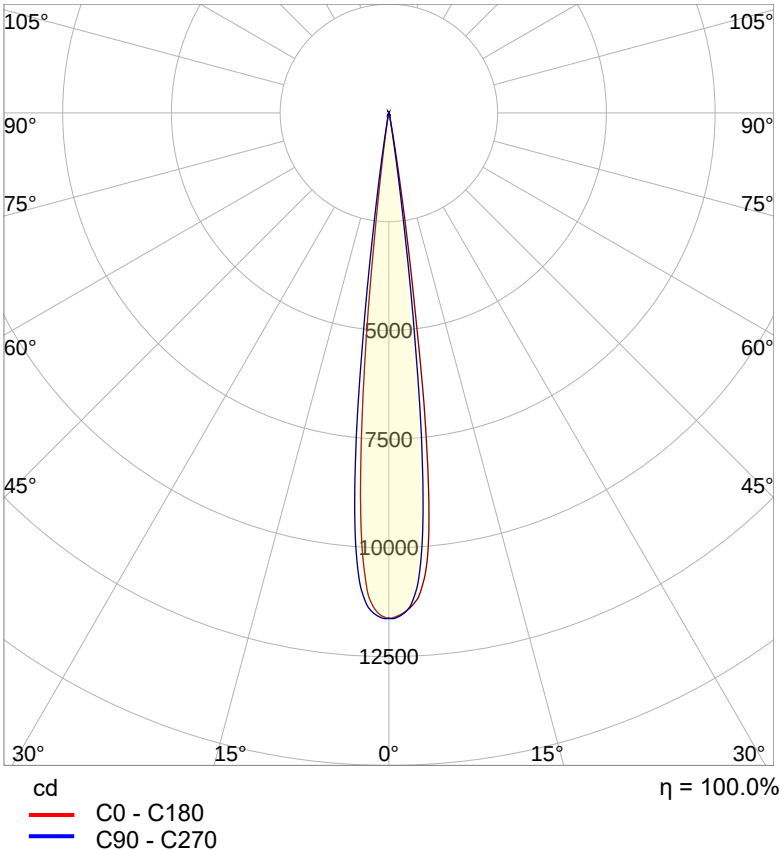
QuikBeam_OutputGain_Disabled_HotBeam_2700K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

510 lm – 0% / 100%
n/a lm/W
11628 cd
2700 K
CRI 0.0

Polar light distribution diagram

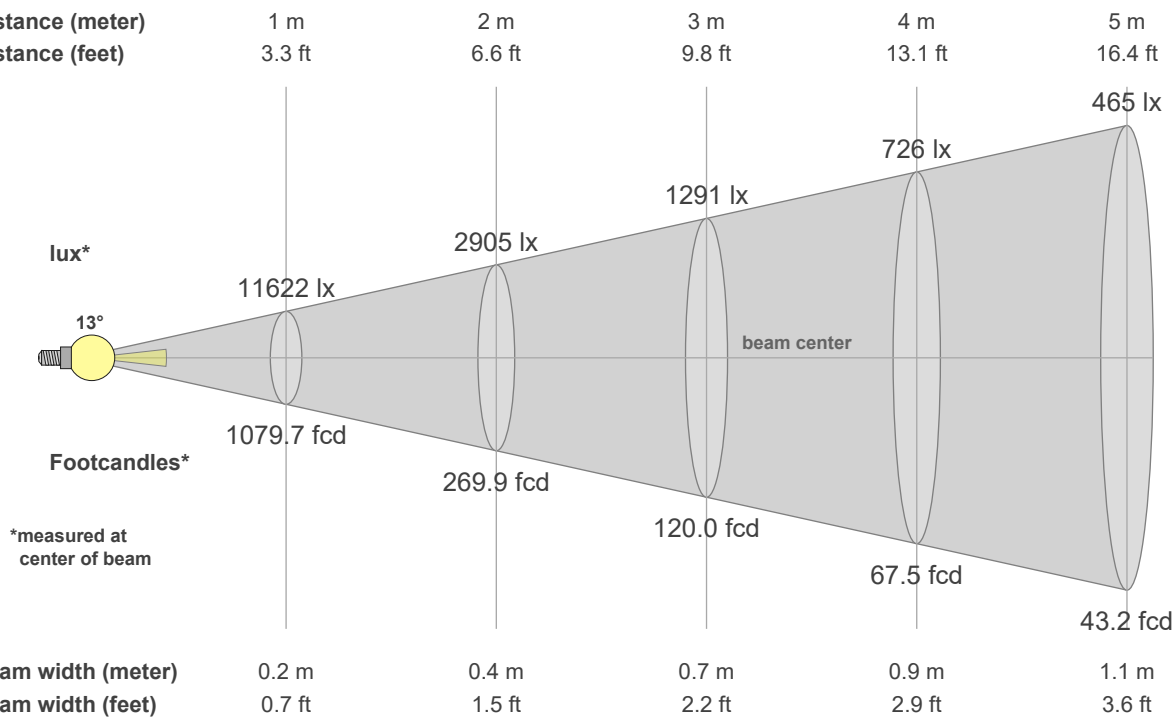


Test report

Light measurement results

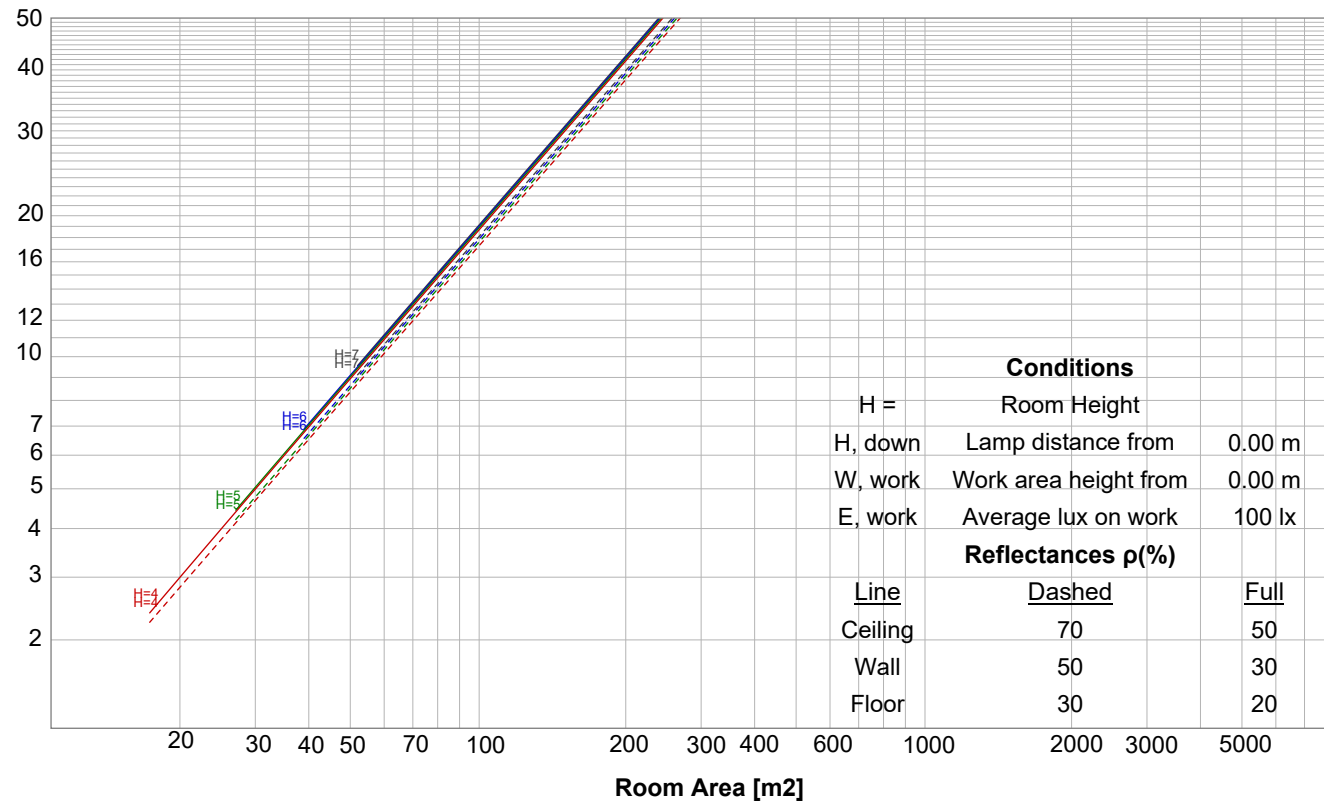
Print date 10/9/2025

Beam details

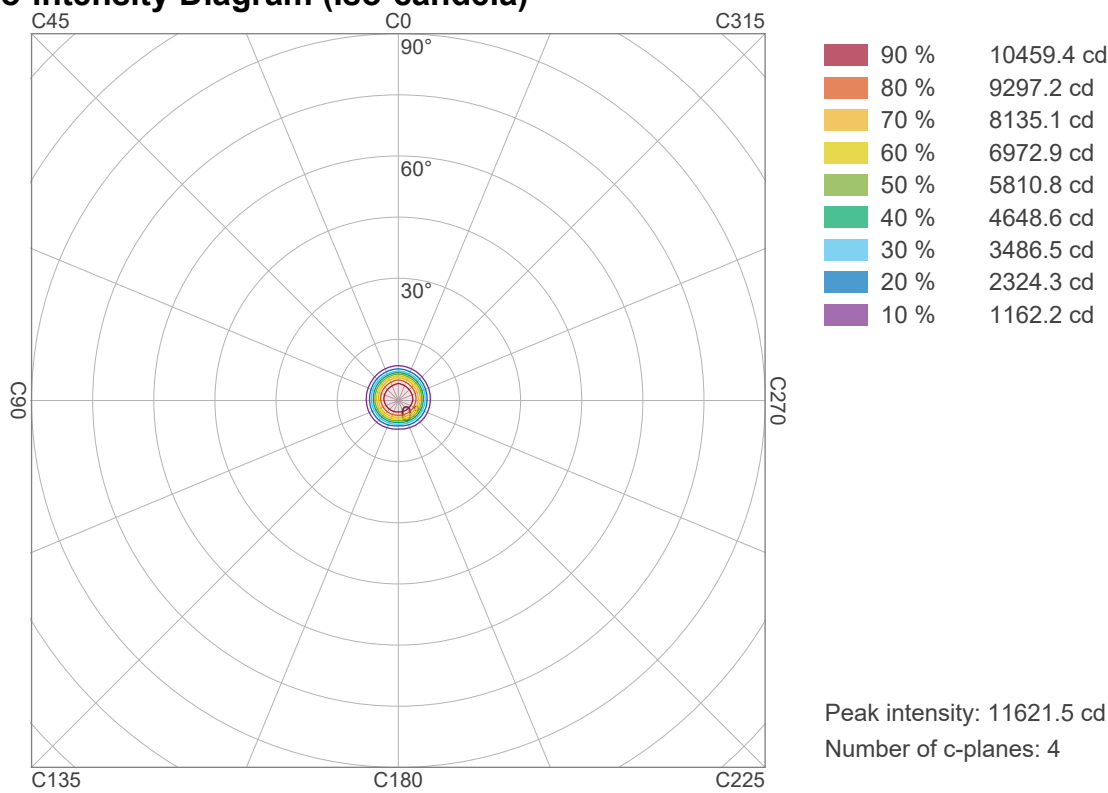


Luminaire budgetary diagram

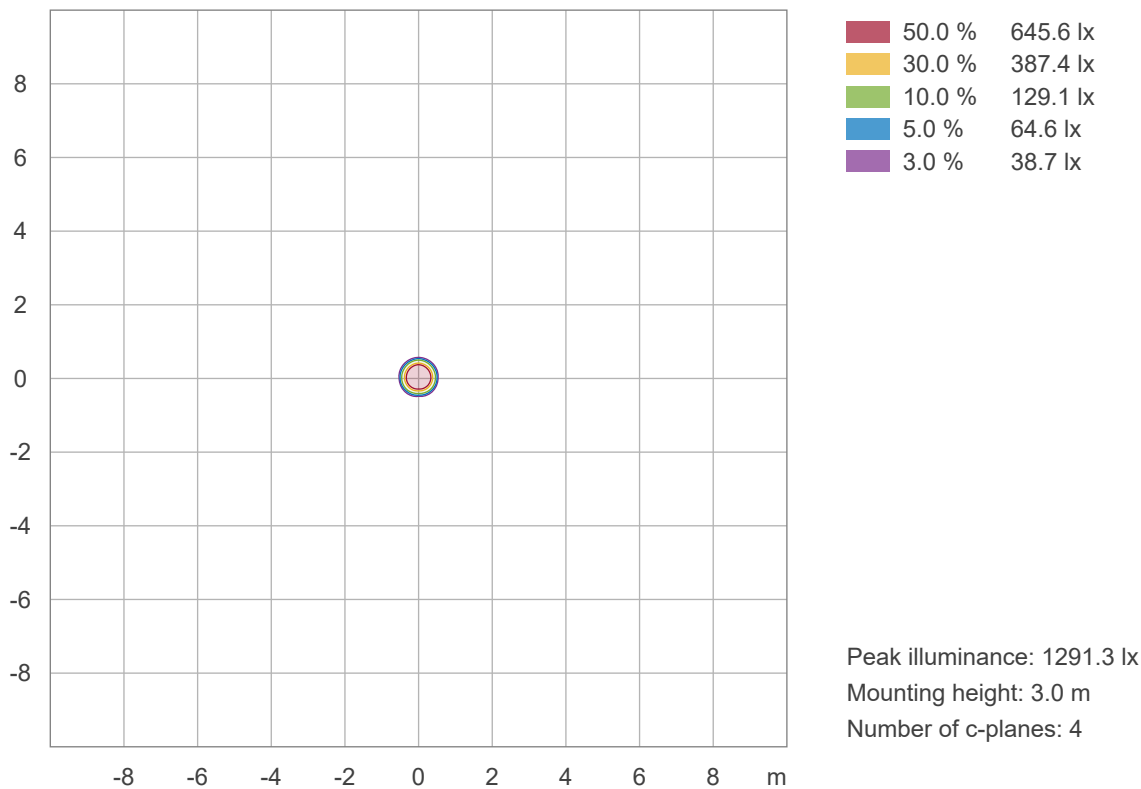
LAMPS (number of lamps)



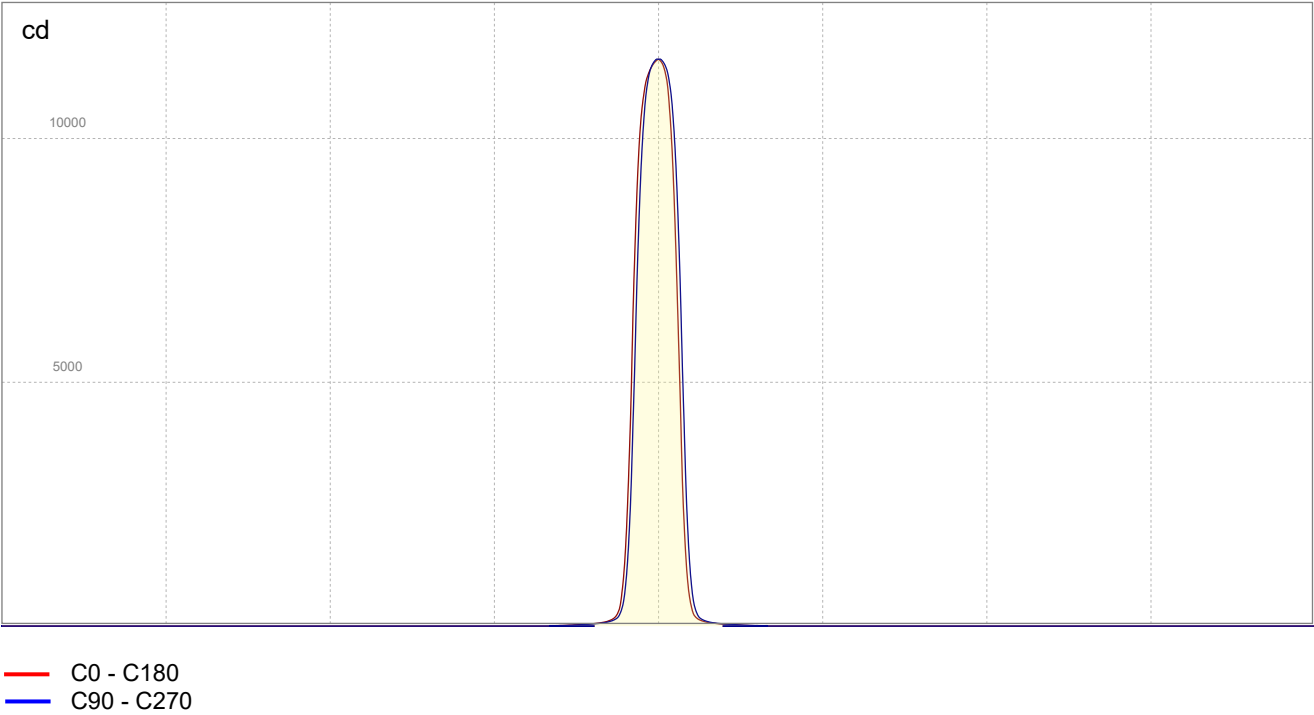
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

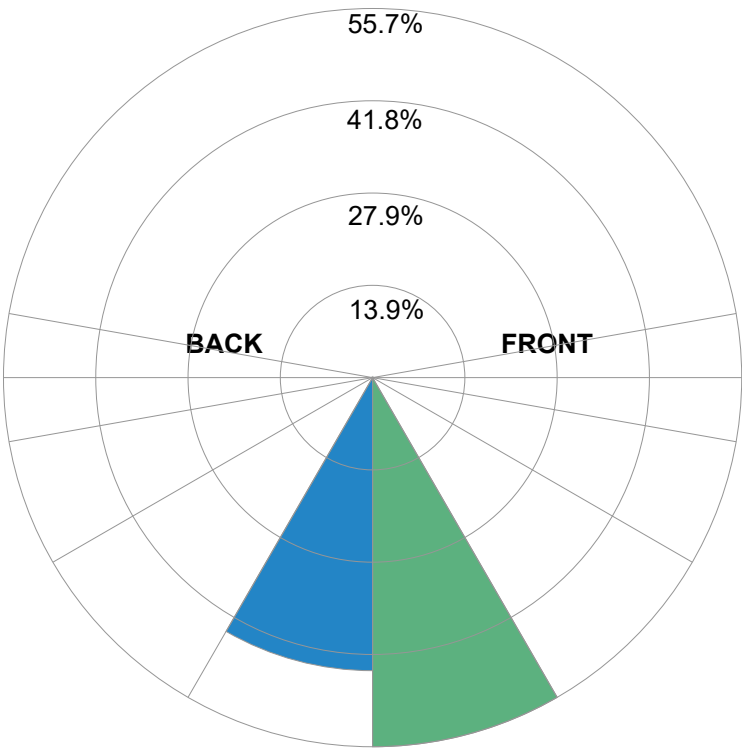


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	284.4	lm	55.7%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	225.7	lm	44.2%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	510	lm	100%
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Test report



Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

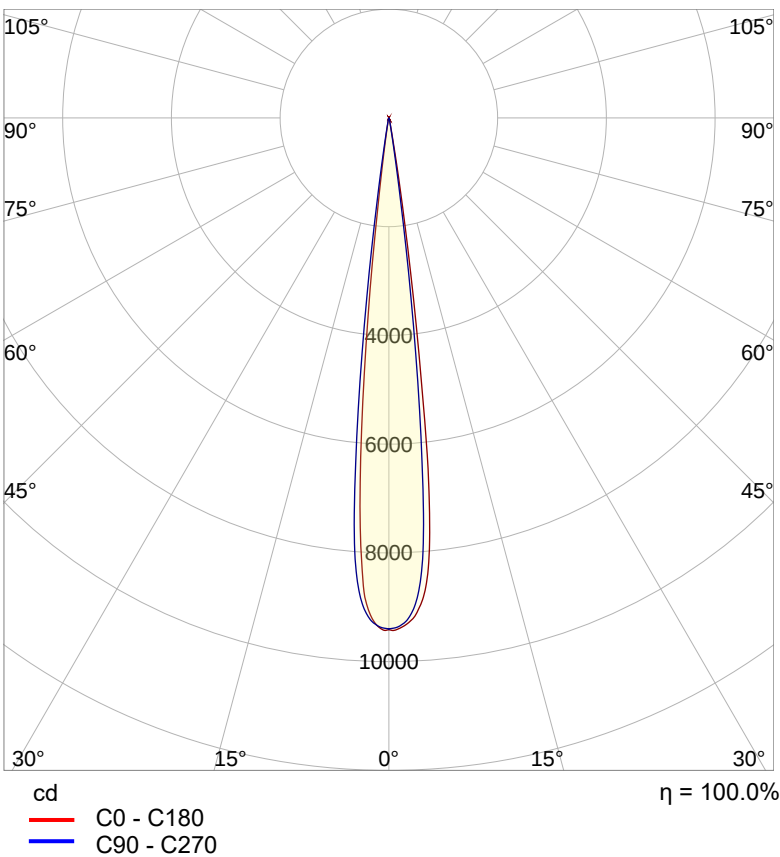
QuikBeam_OutputGain_Disabled_HotBeam_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

413 lm – 0% / 100%
n/a lm/W
9428 cd
3200 K
CRI 0.0

Polar light distribution diagram

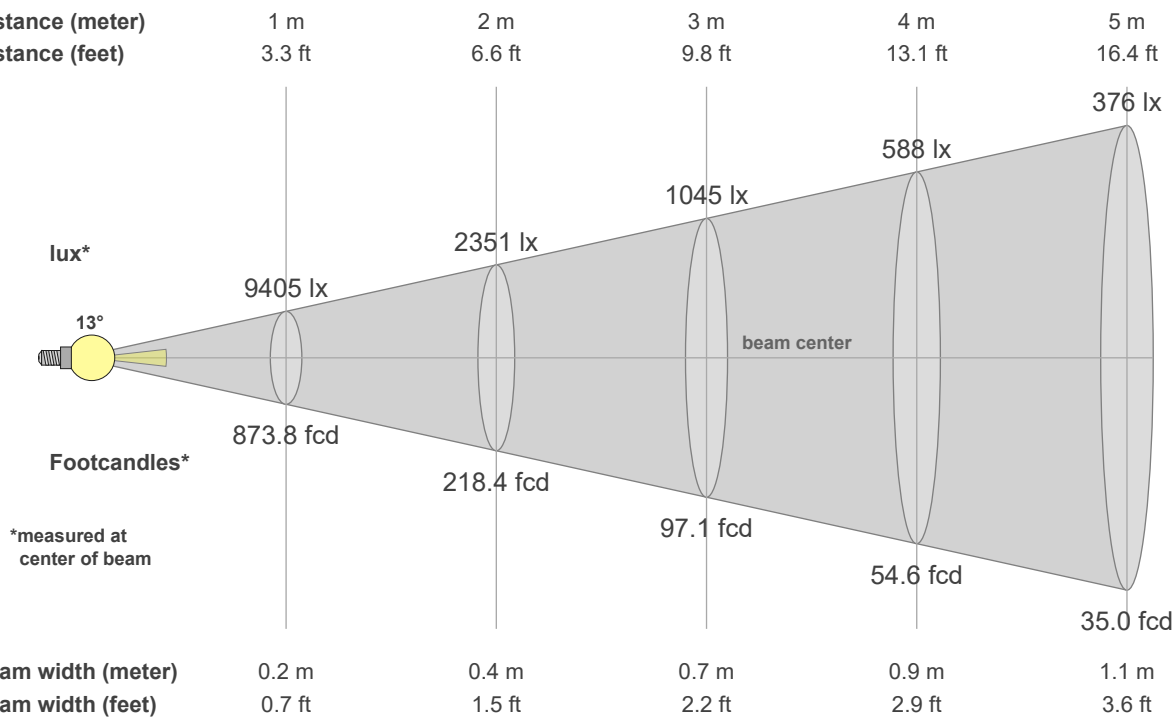


Test report

Light measurement results

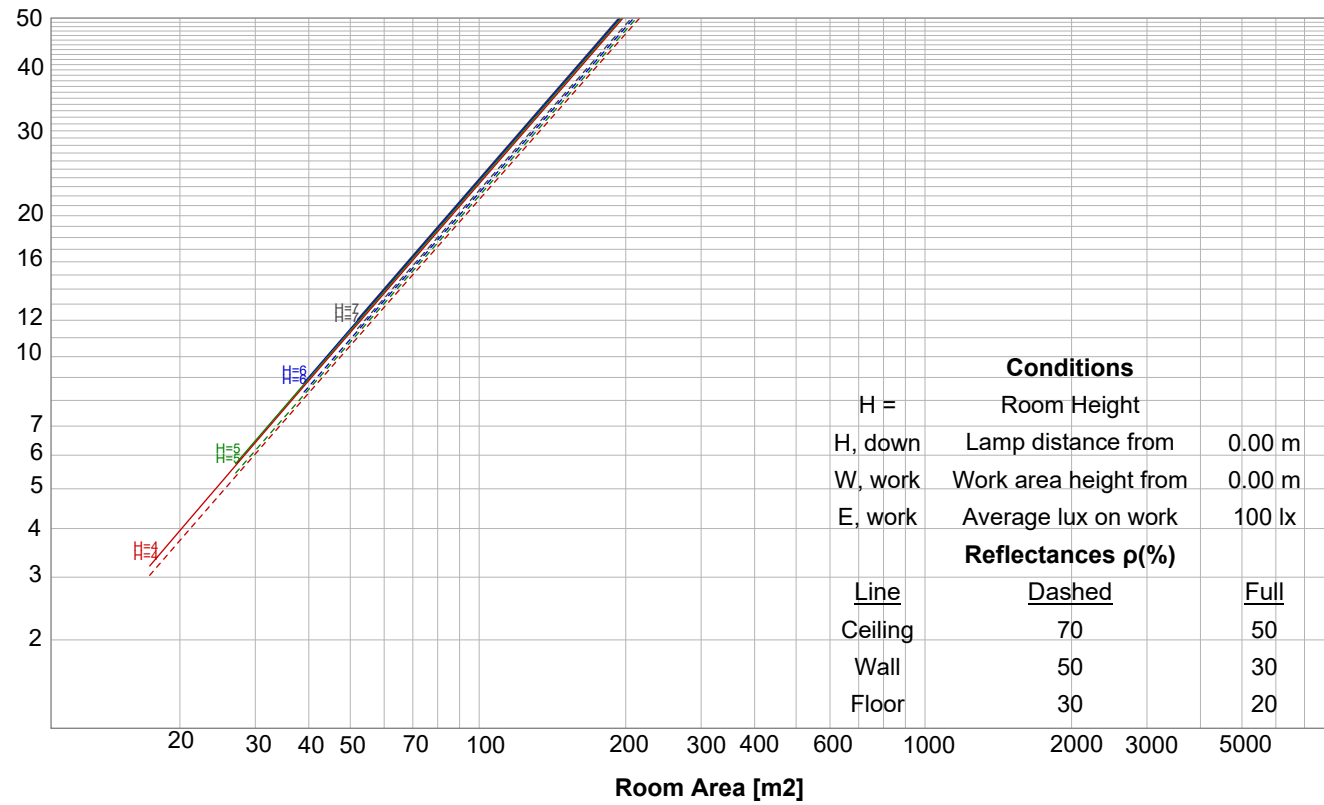
Print date 10/9/2025

Beam details

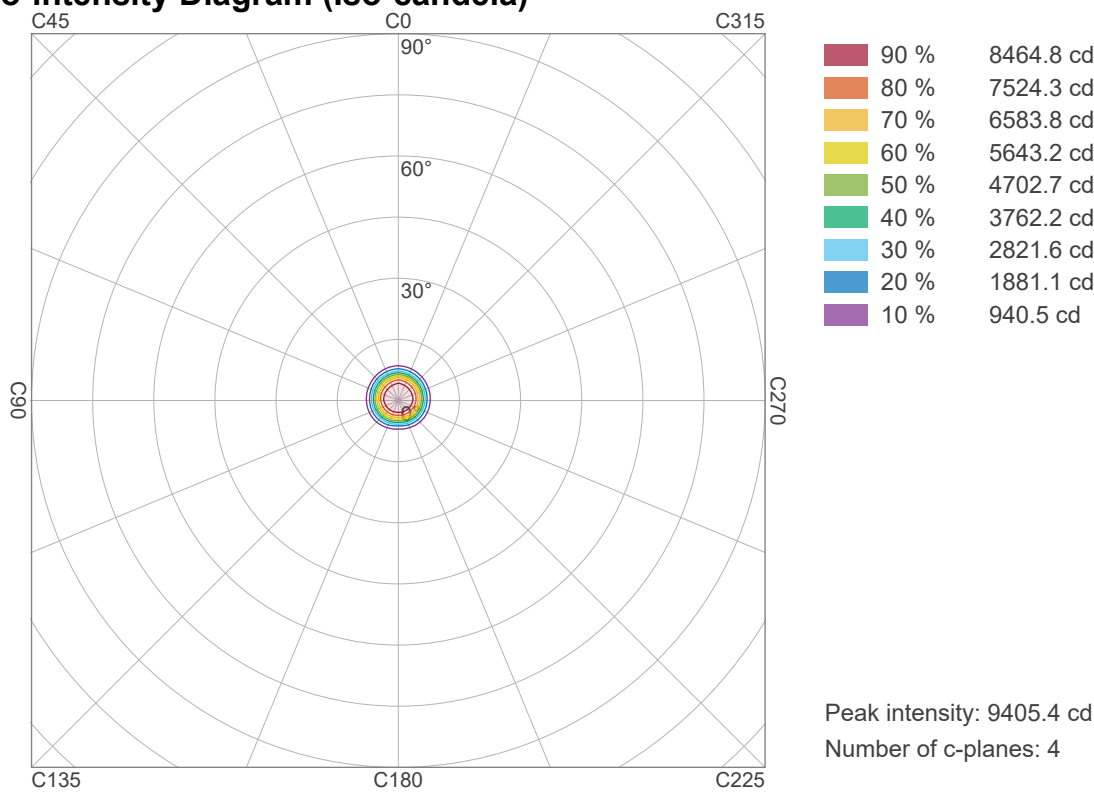


Luminaire budgetary diagram

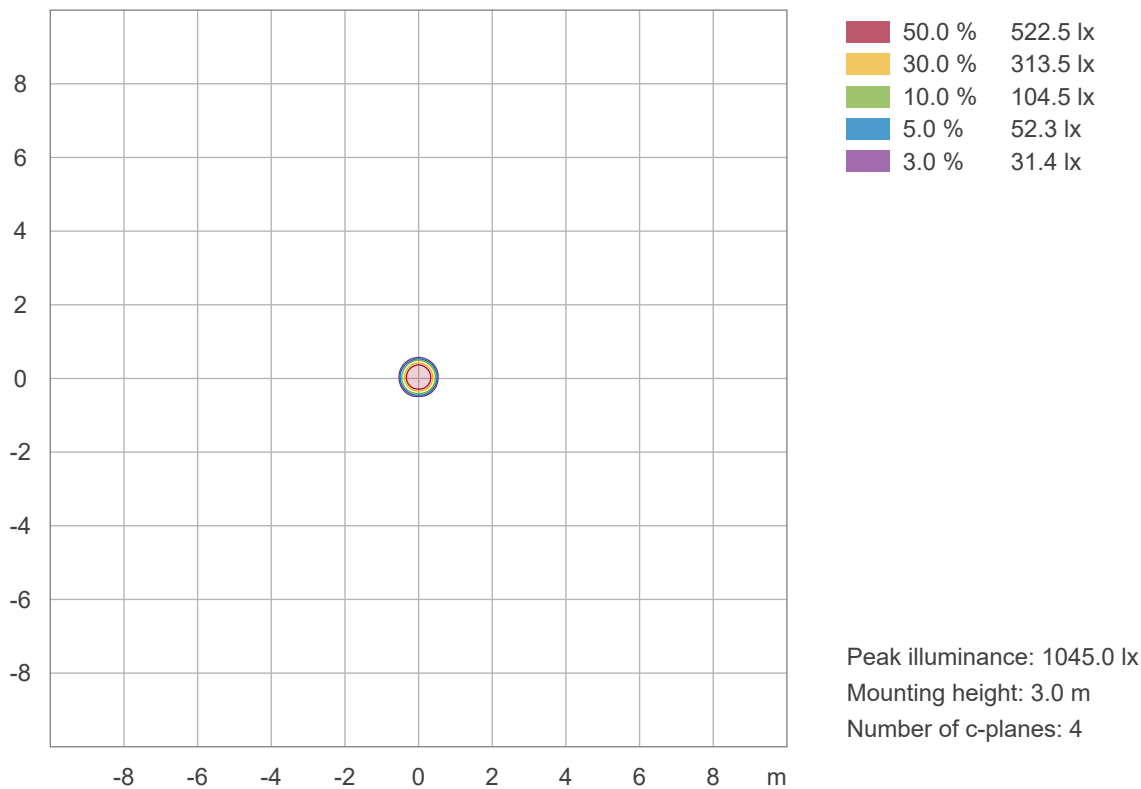
LAMPS (number of lamps)



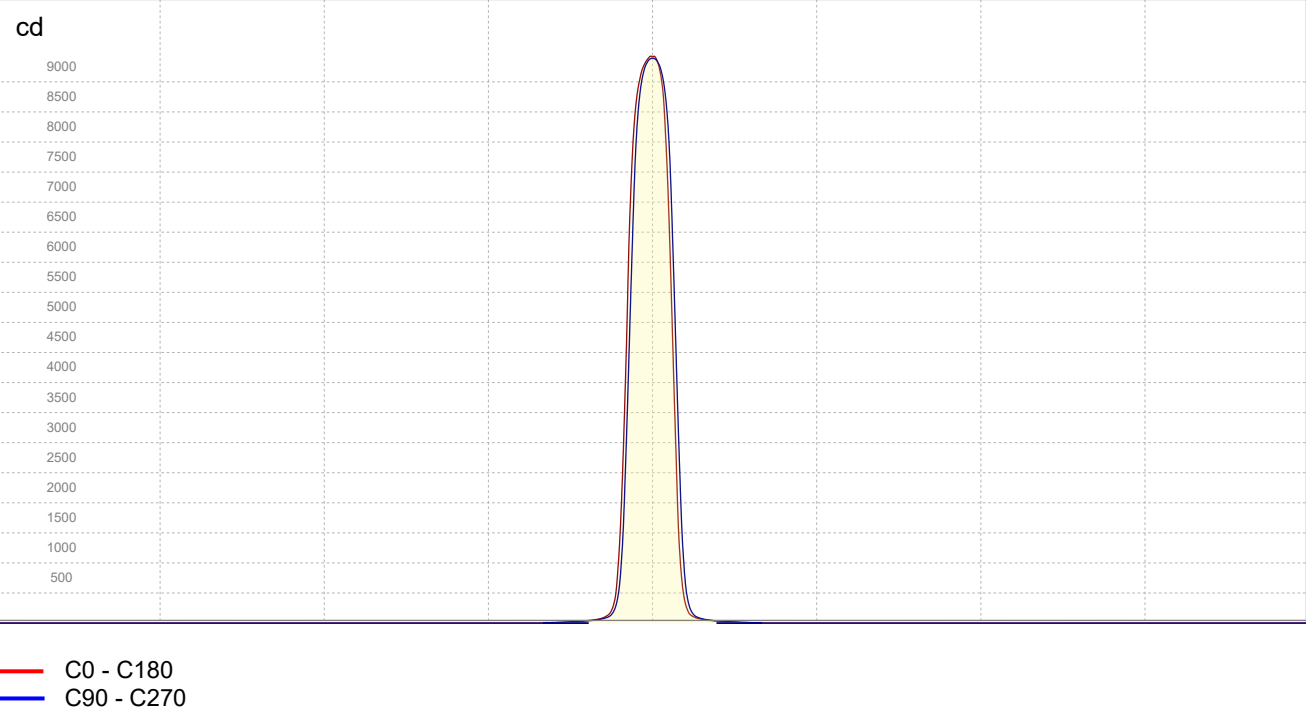
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

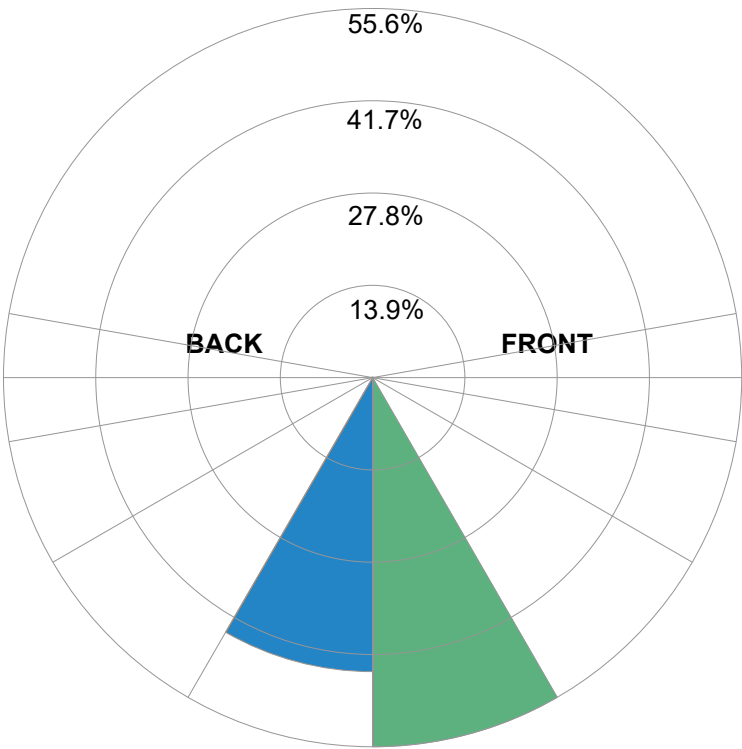


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	230	Im	55.6%
Medium (30-60°)	0.1	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%

Back Light

Low (0-30°)	183.2	Im	44.3%
Medium (30-60°)	0.1	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%

Uplight

Low (90-100°)	0	Im	0%
High (100-180°)	0	Im	0%

Total

Sum	413	Im	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

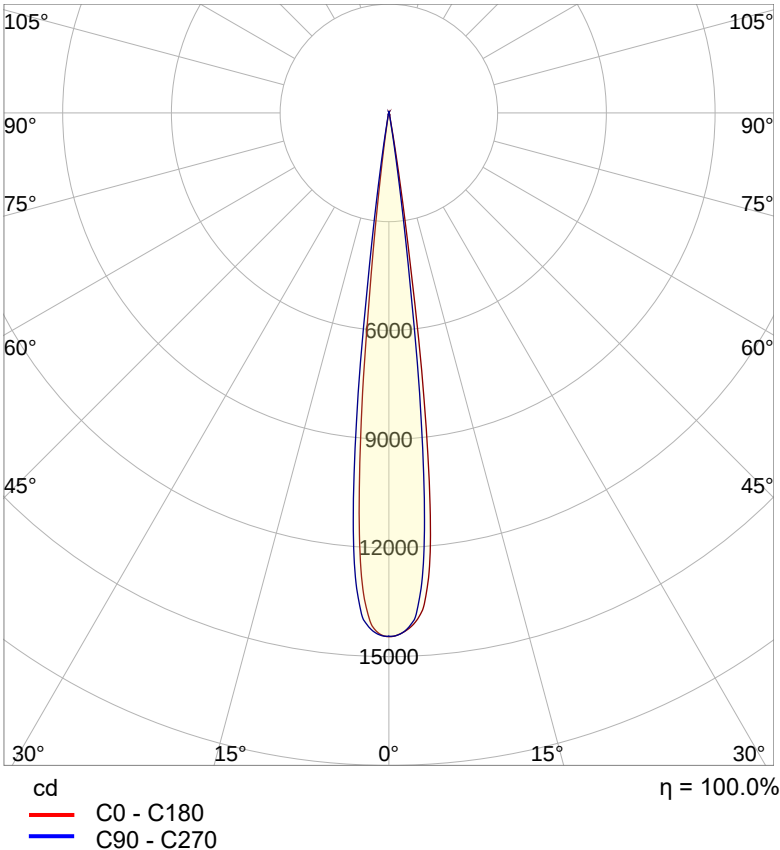
QuikBeam_OutputGain_Disabled_HotBeam_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

637 lm – 0% / 100%
n/a lm/W
14450 cd
4000 K
CRI 85.0

Polar light distribution diagram

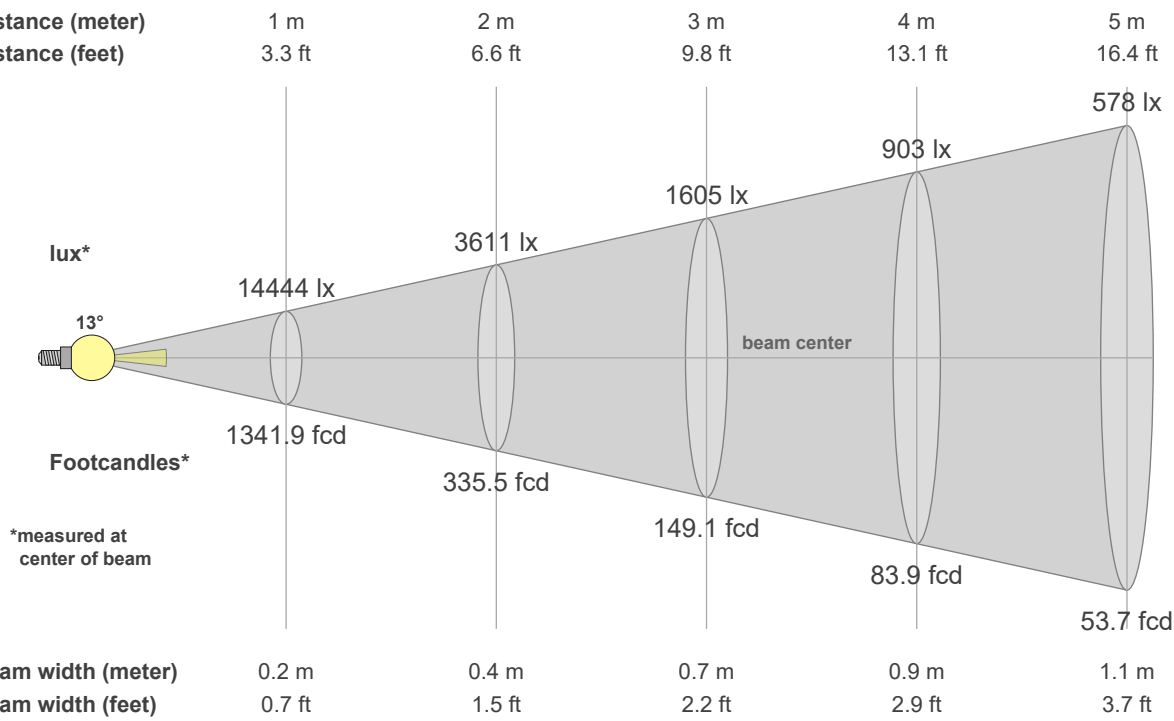


Test report

Light measurement results

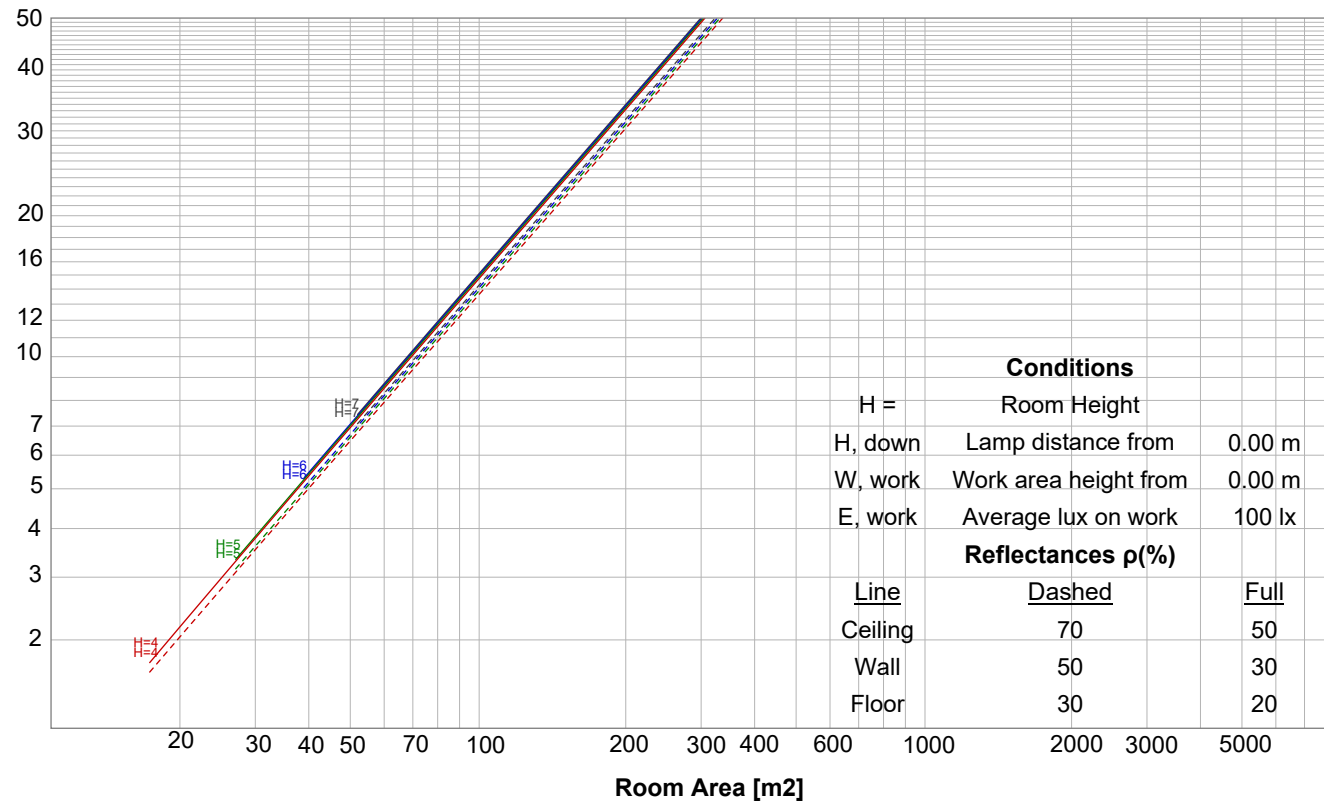
Print date 10/9/2025

Beam details

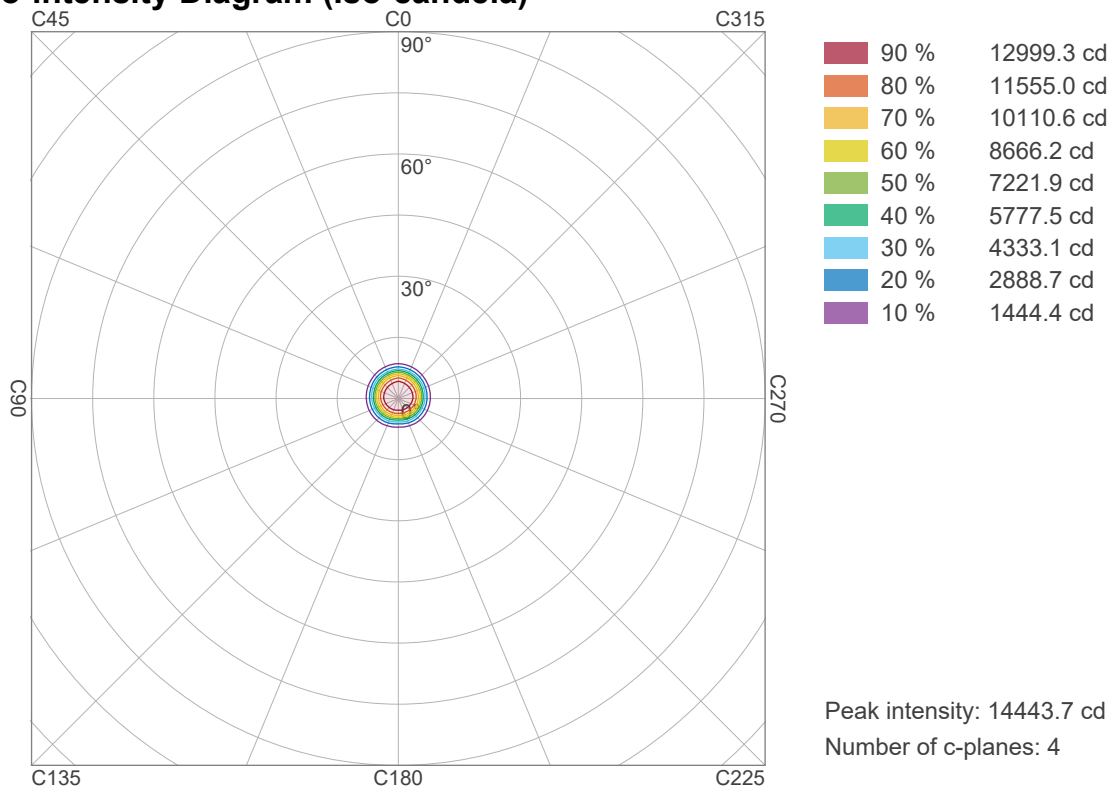


Luminaire budgetary diagram

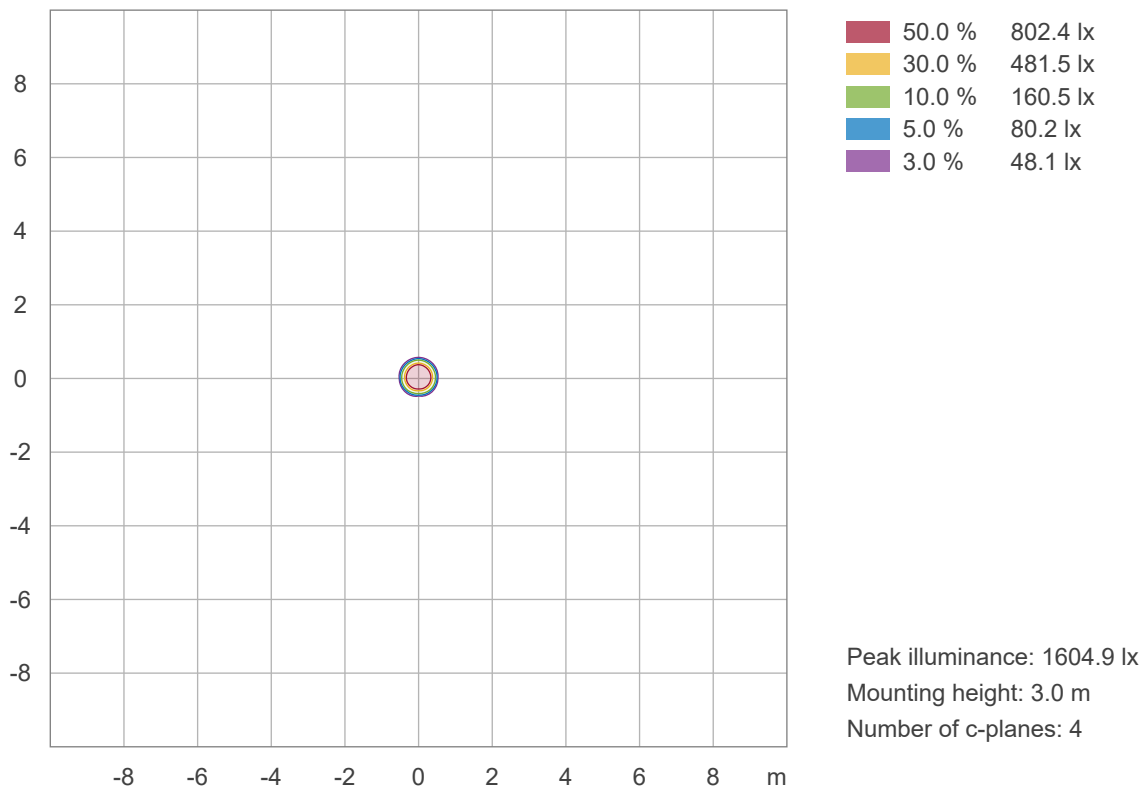
LAMPS (number of lamps)



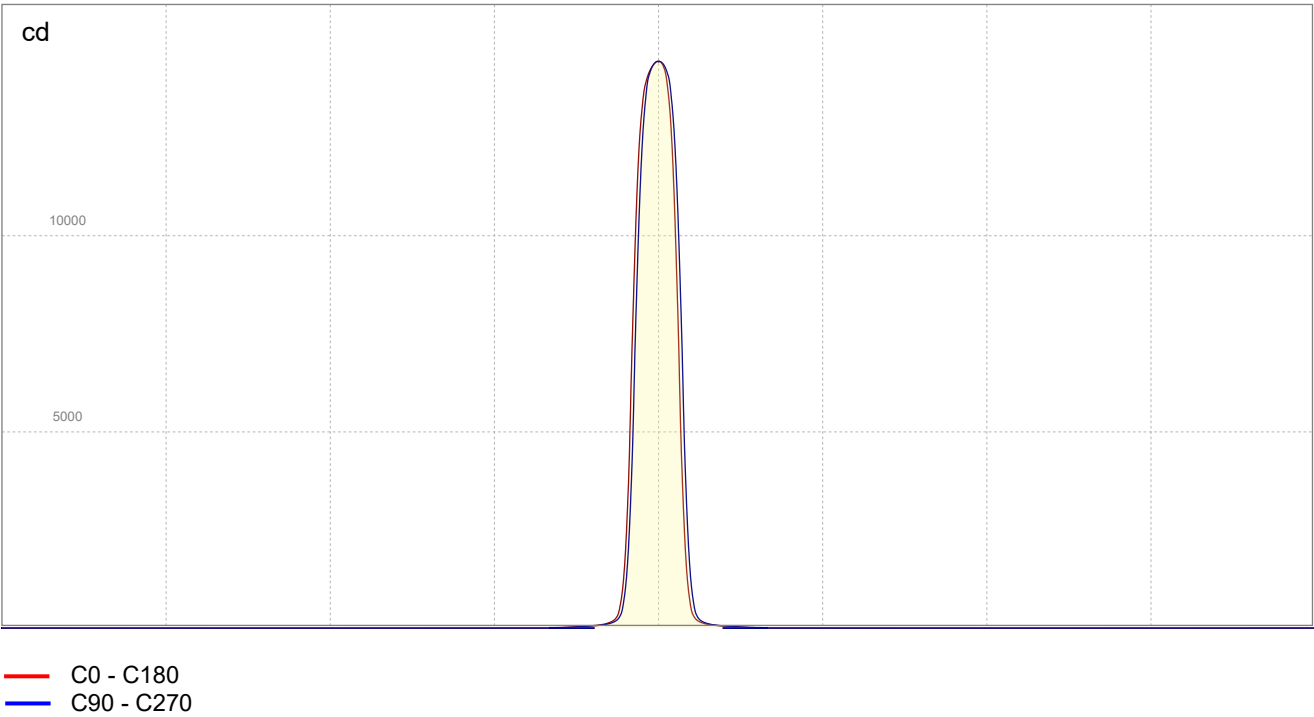
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

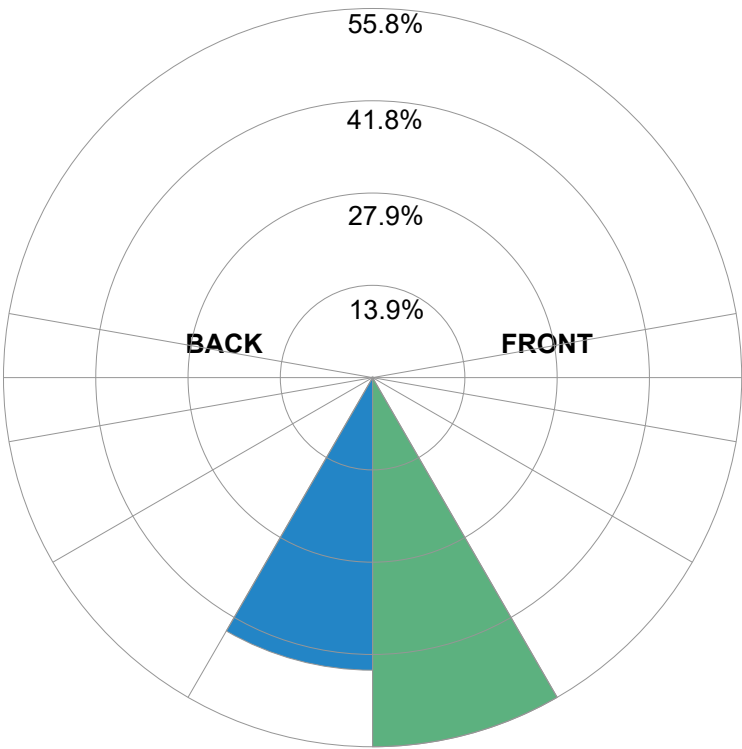


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	355.3	lm	55.8%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	281.6	lm	44.2%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	637	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

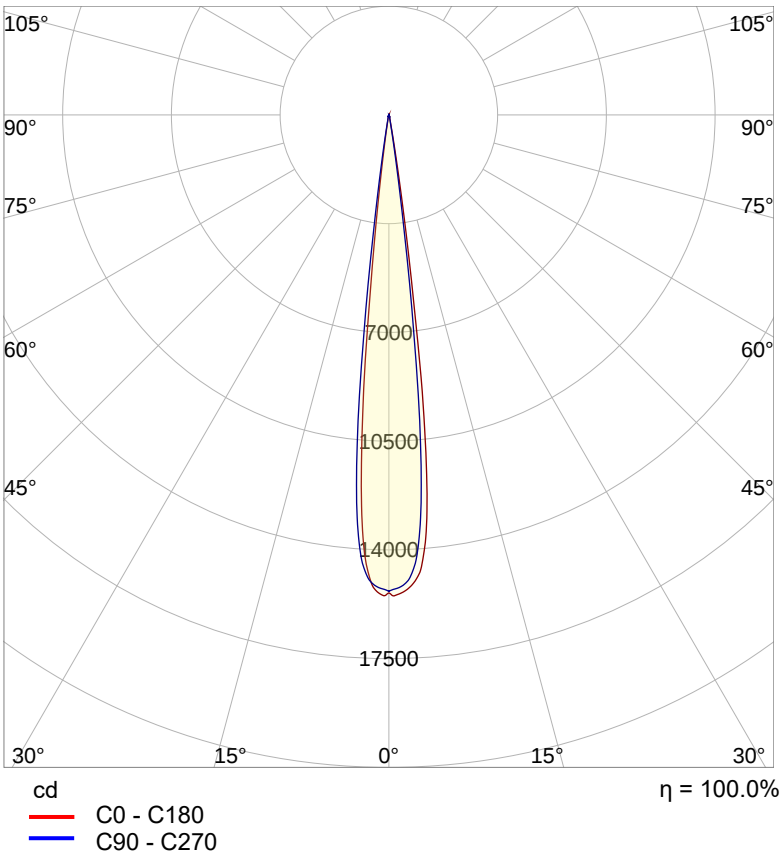
QuikBeam_OutputGain_Disabled_HotBeam_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

679 lm – 0% / 100%
n/a lm/W
15480 cd
5500 K
CRI 0.0

Polar light distribution diagram

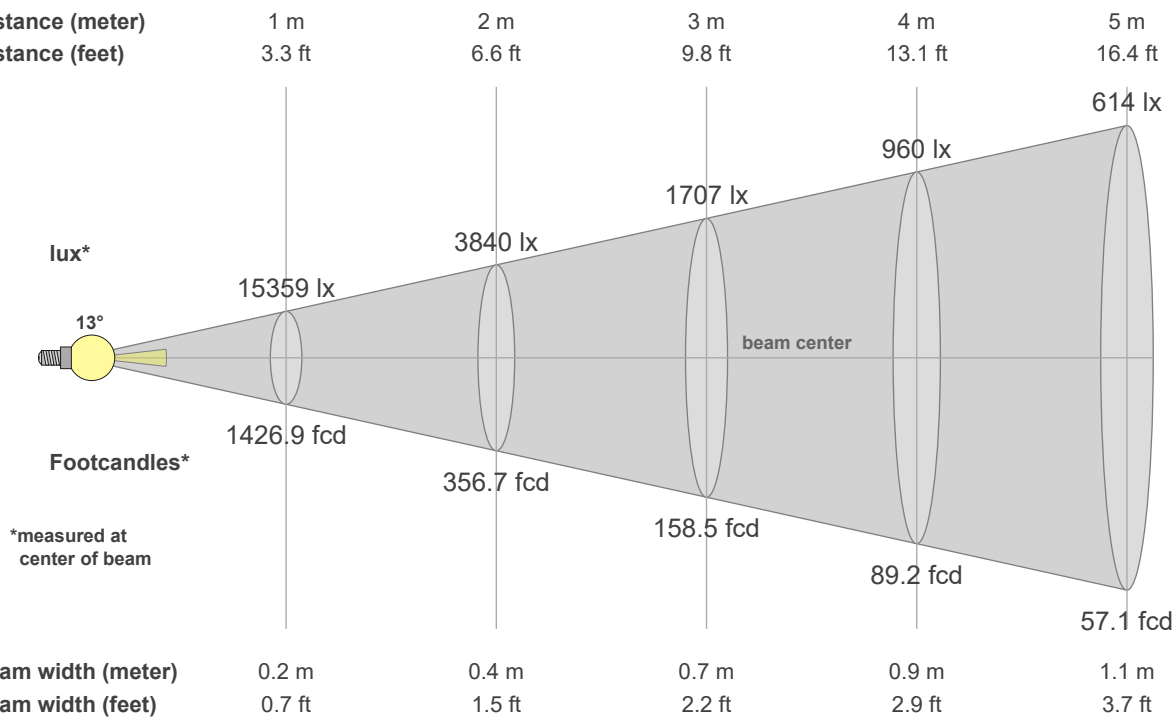


Test report

Light measurement results

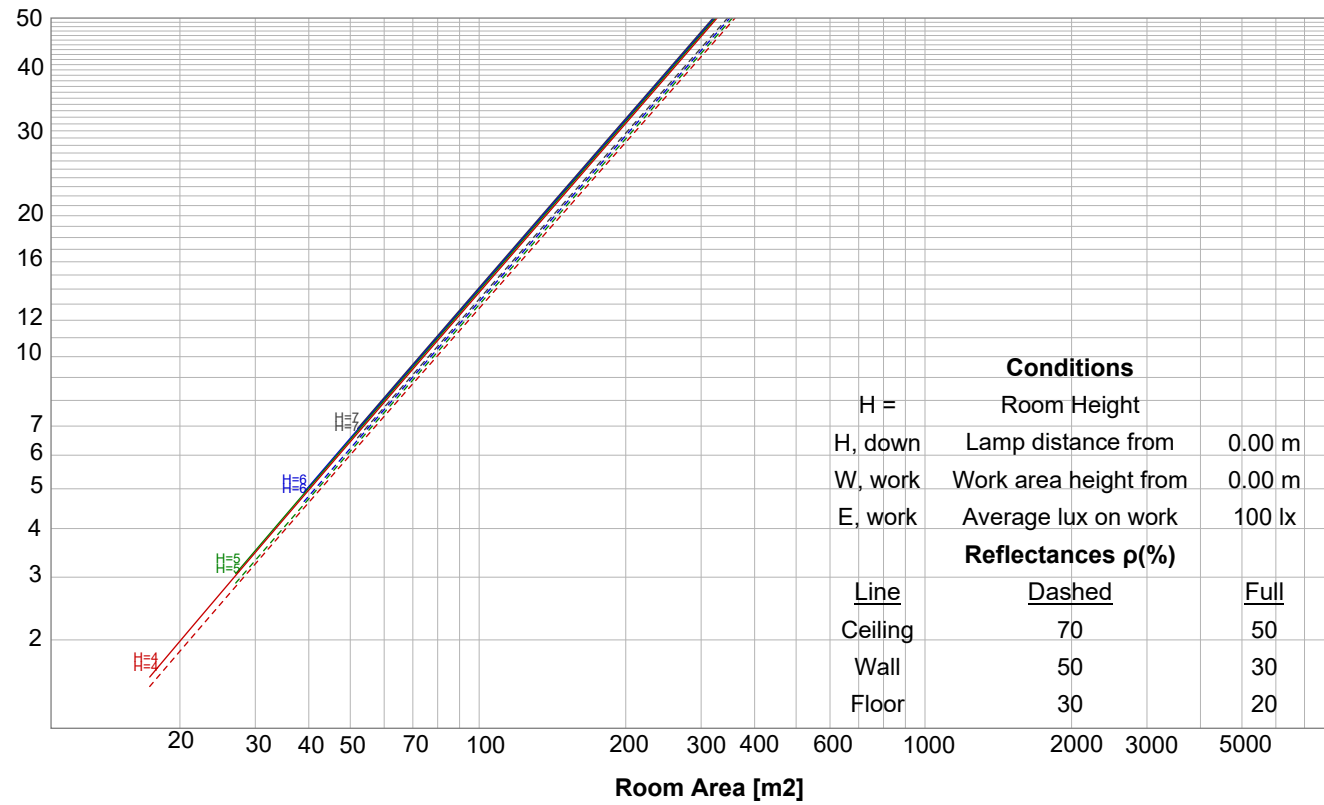
Print date 10/9/2025

Beam details

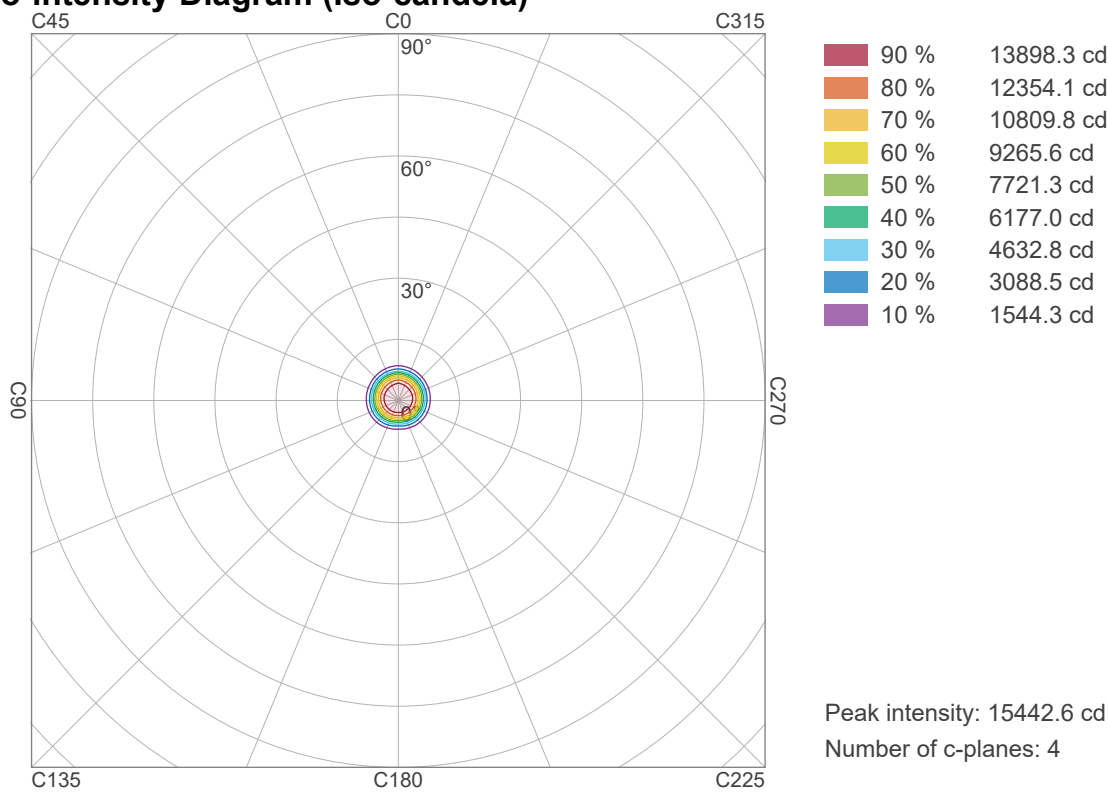


Luminaire budgetary diagram

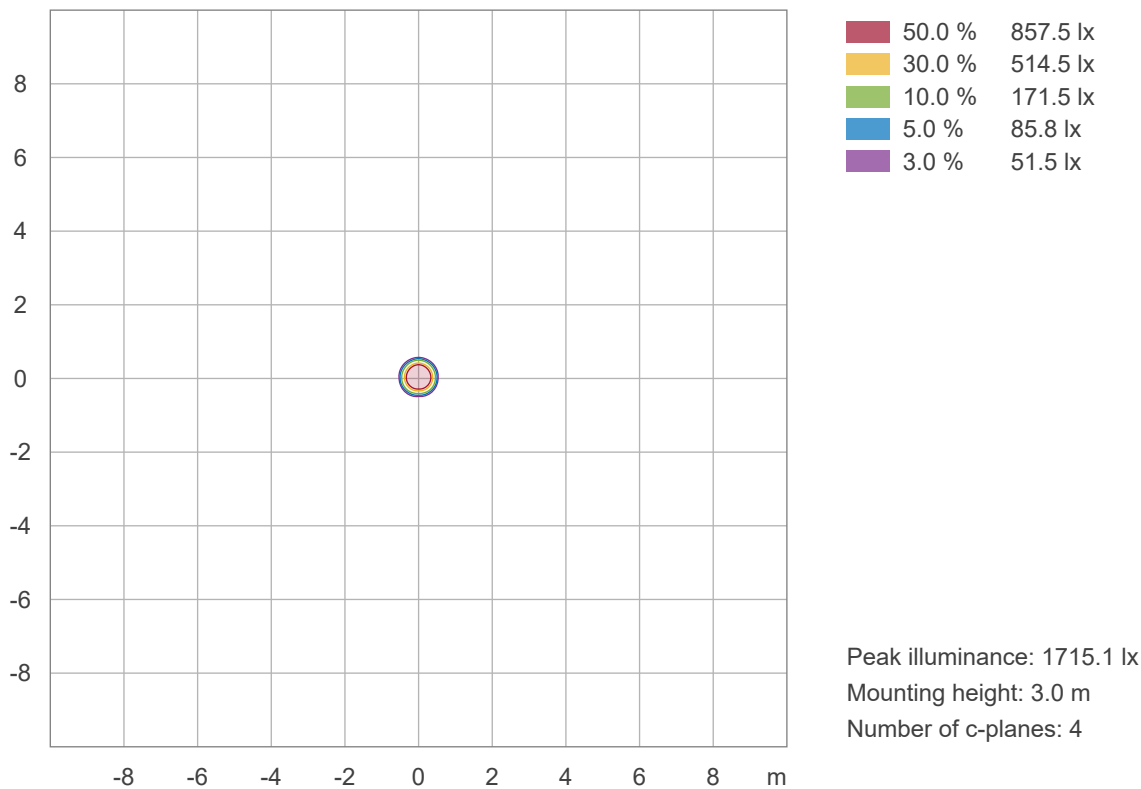
LAMPS (number of lamps)



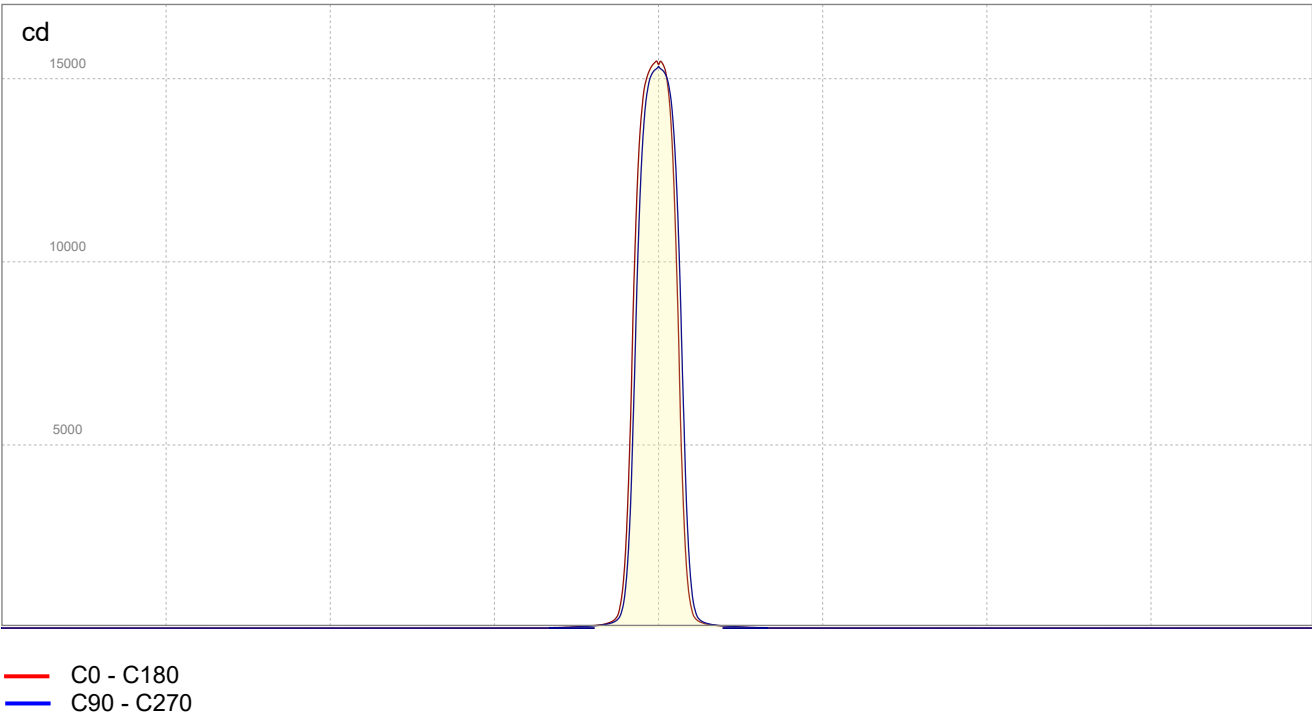
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

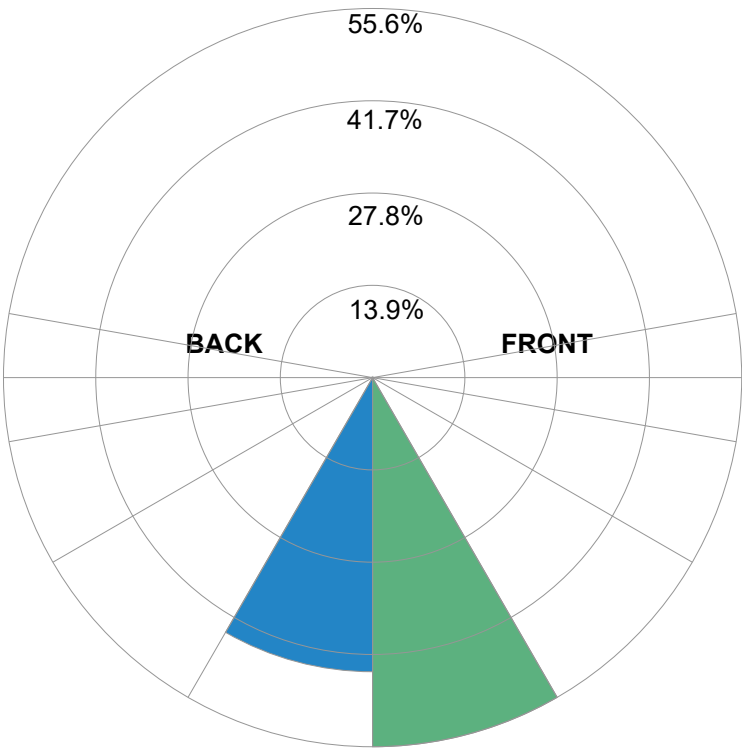


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	378	Im	55.6%
Medium (30-60°)	0.1	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%

Back Light

Low (0-30°)	301.1	Im	44.3%
Medium (30-60°)	0.1	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%

Uplight

Low (90-100°)	0	Im	0%
High (100-180°)	0	Im	0%

Total

Sum	679	Im	100%
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Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

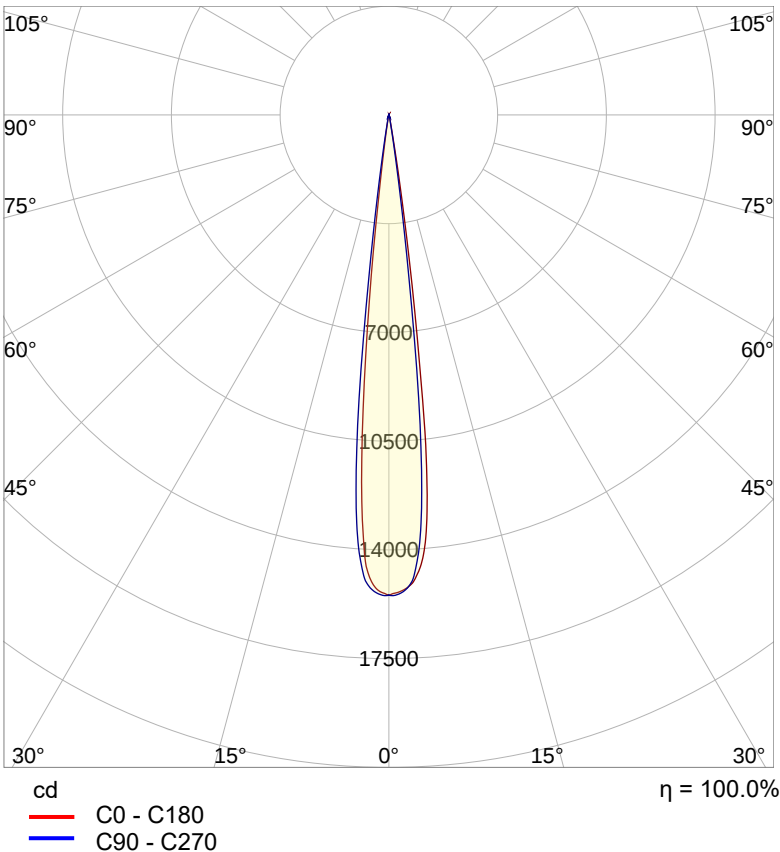
QuikBeam_OutputGain_Disabled_HotBeam_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

683 lm – 0% / 100%
n/a lm/W
15473 cd
6500 K
CRI 0.0

Polar light distribution diagram

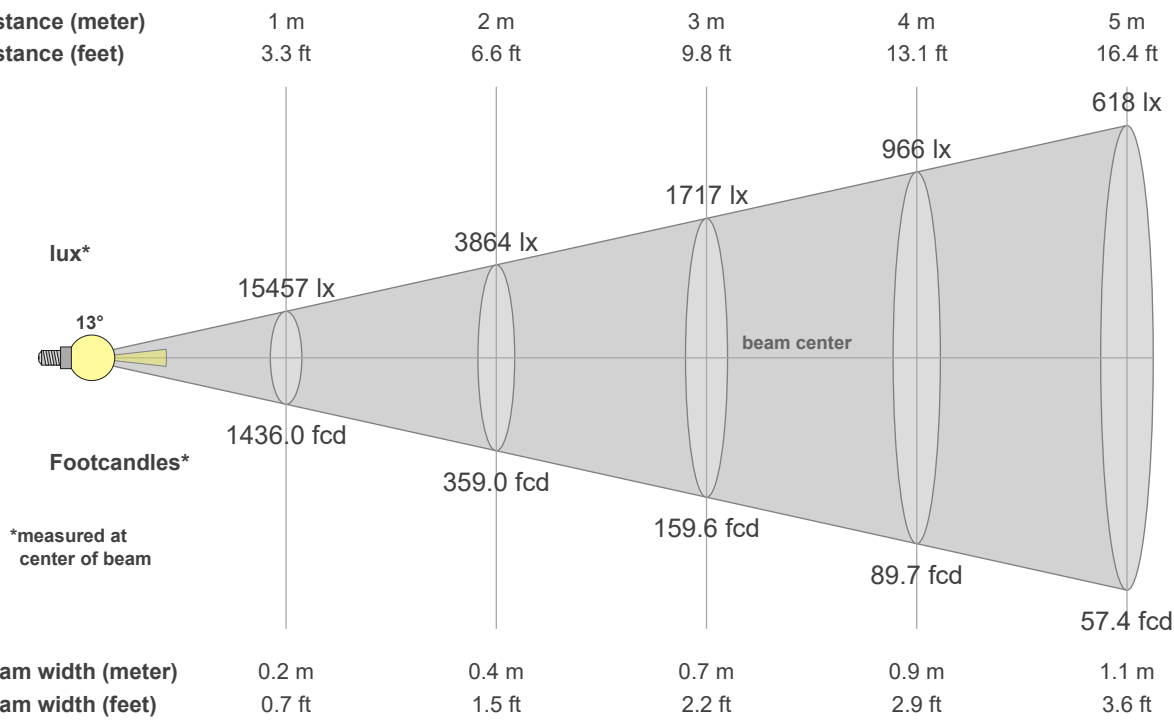


Test report

Light measurement results

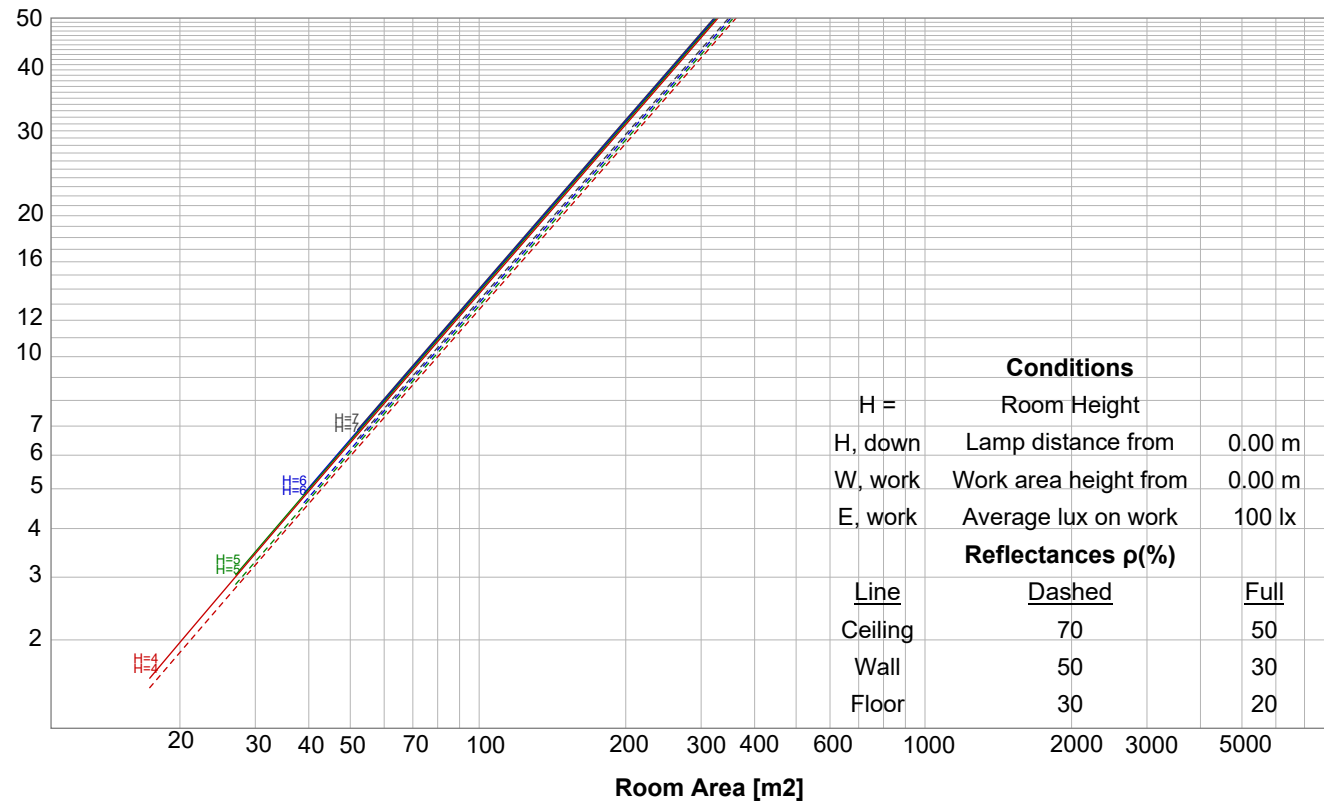
Print date 10/9/2025

Beam details

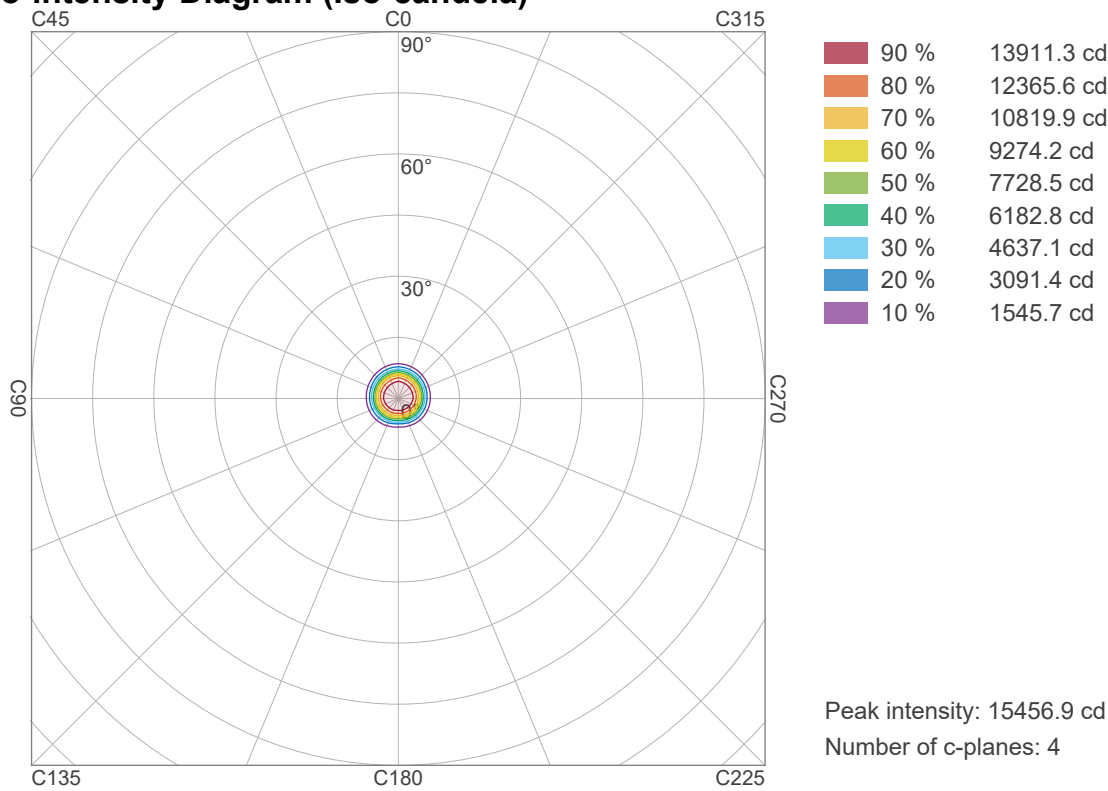


Luminaire budgetary diagram

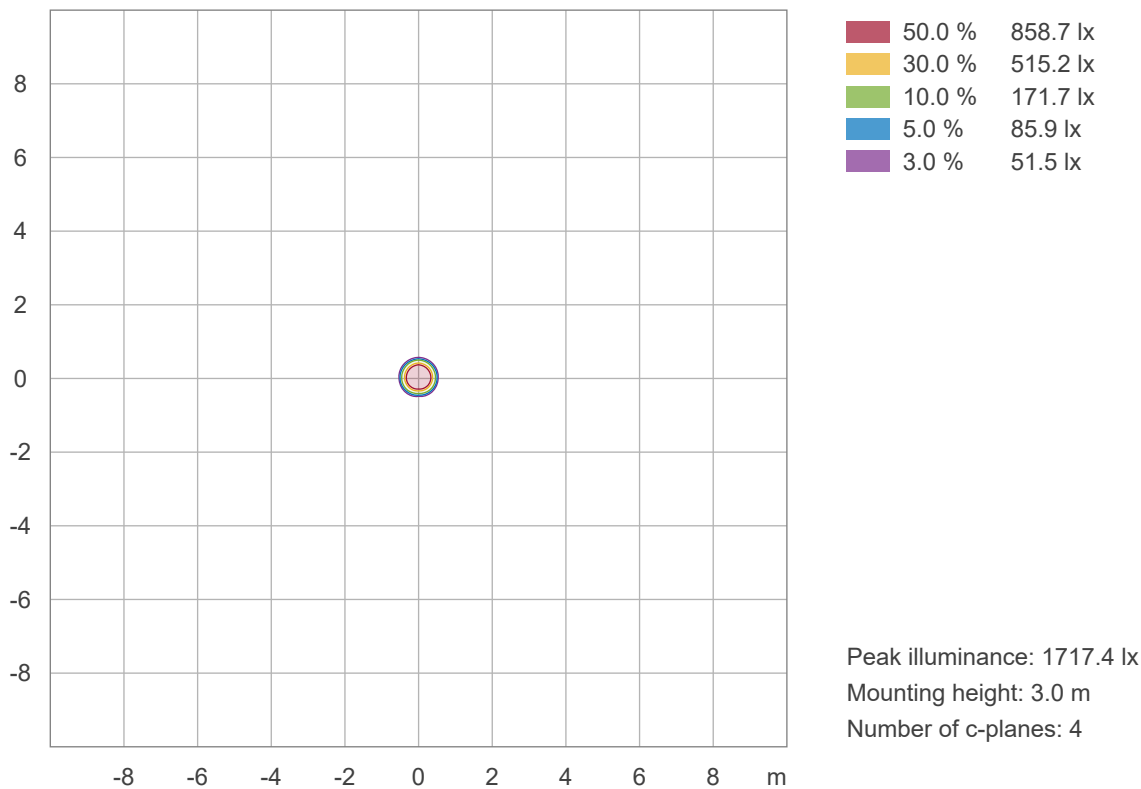
LAMPS (number of lamps)



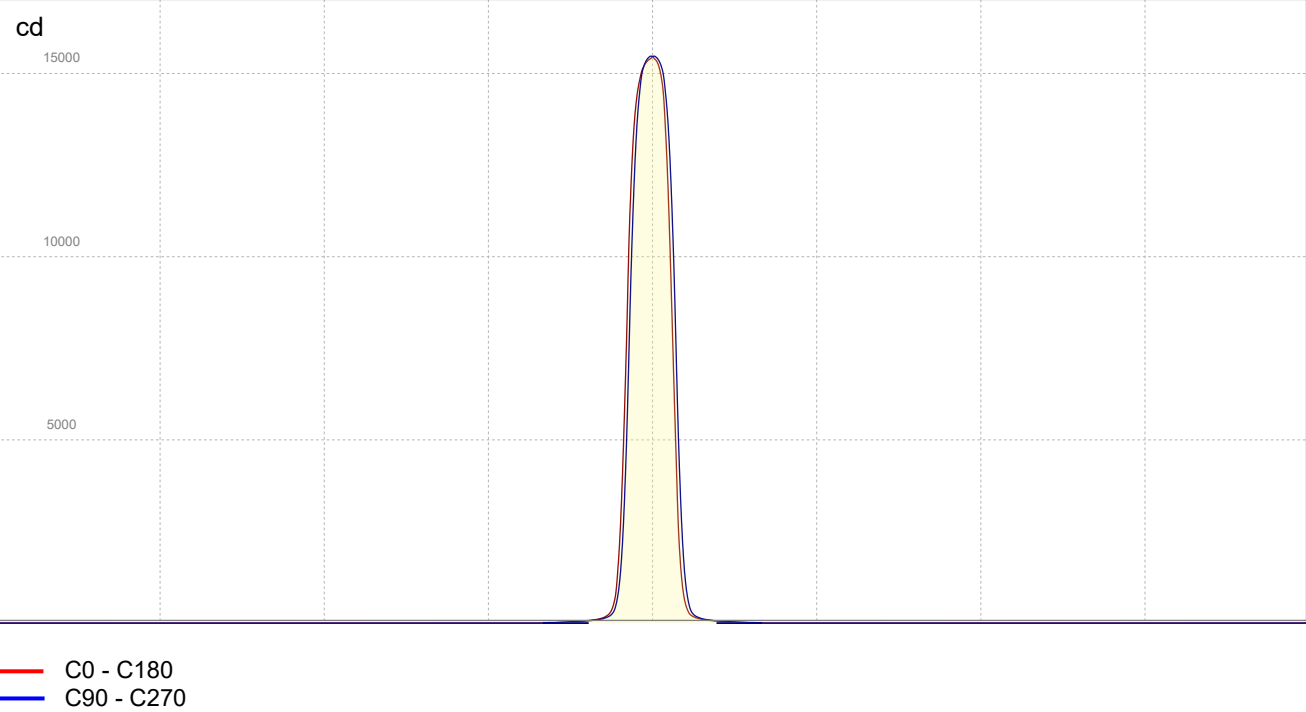
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

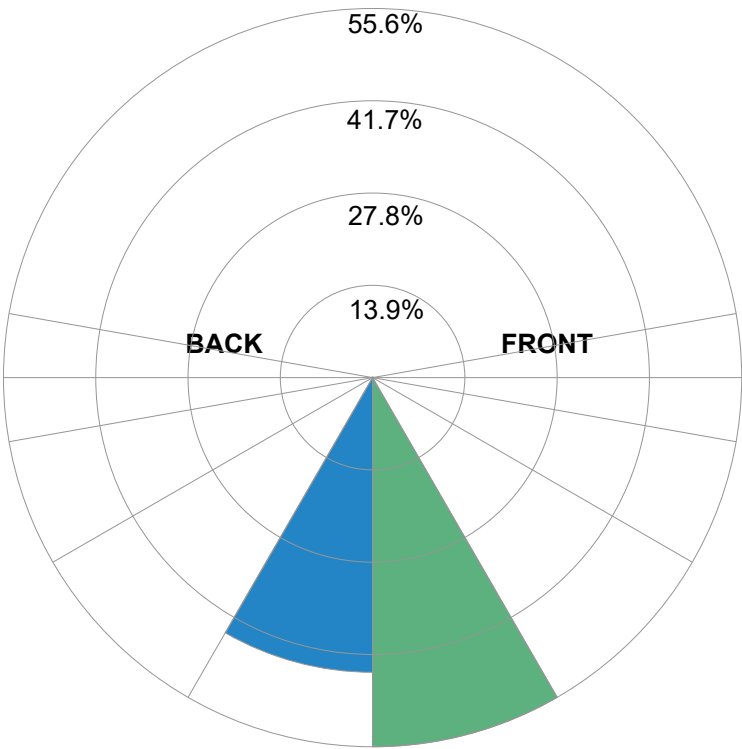


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	379.7	lm	55.6%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	303.1	lm	44.4%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	683	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer

QuikBeam_OutputGain_Disabled_13D_2700K
SPOT

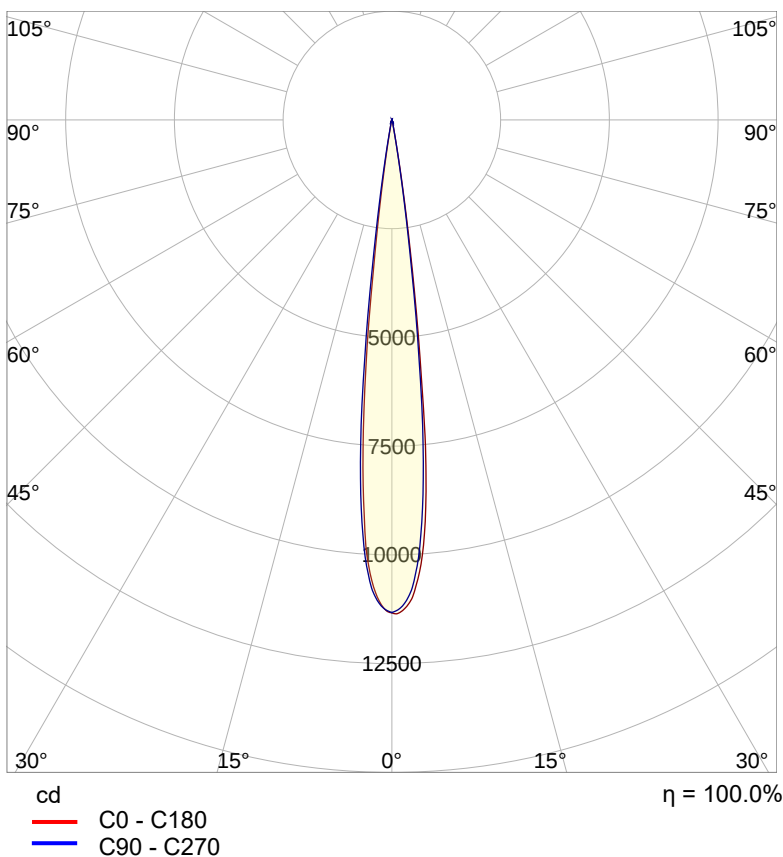
Astera

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

516 lm – 0% / 100%
n/a lm/W
11356 cd
2700 K
CRI 0.0

Polar light distribution diagram

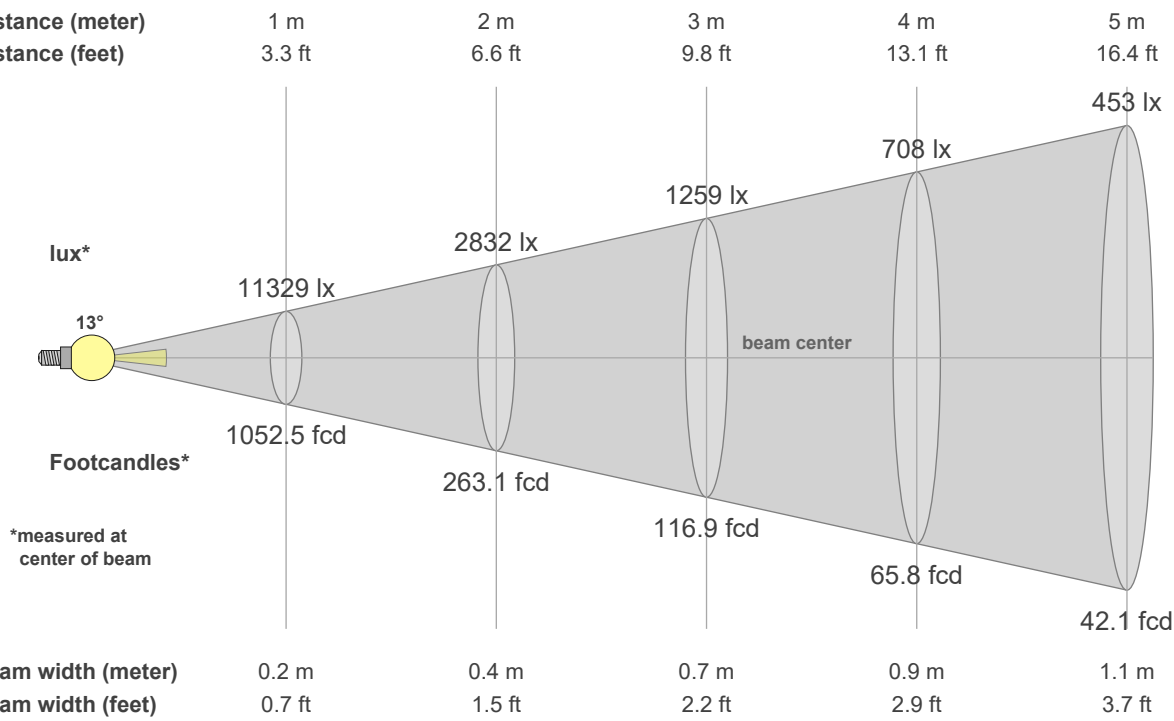


Test report

Light measurement results

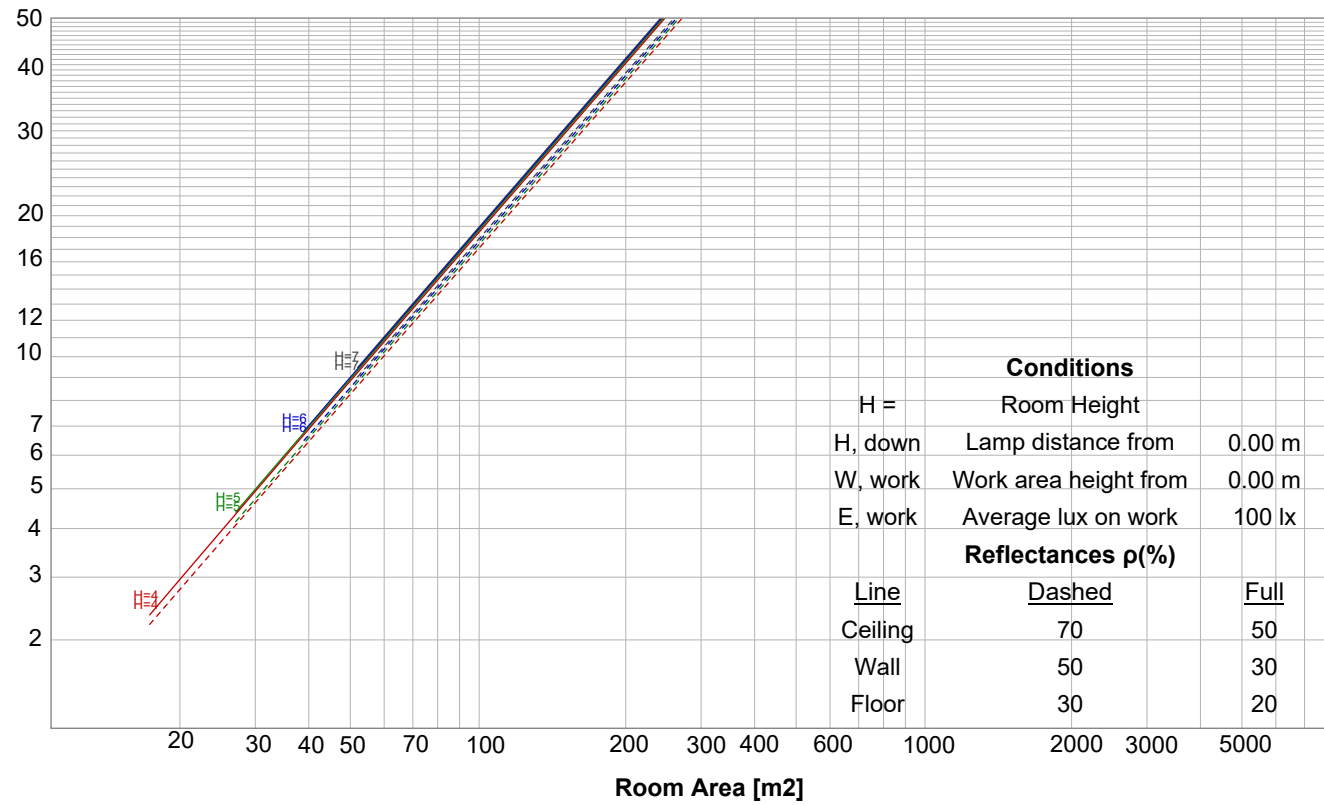
Print date 10/9/2025

Beam details

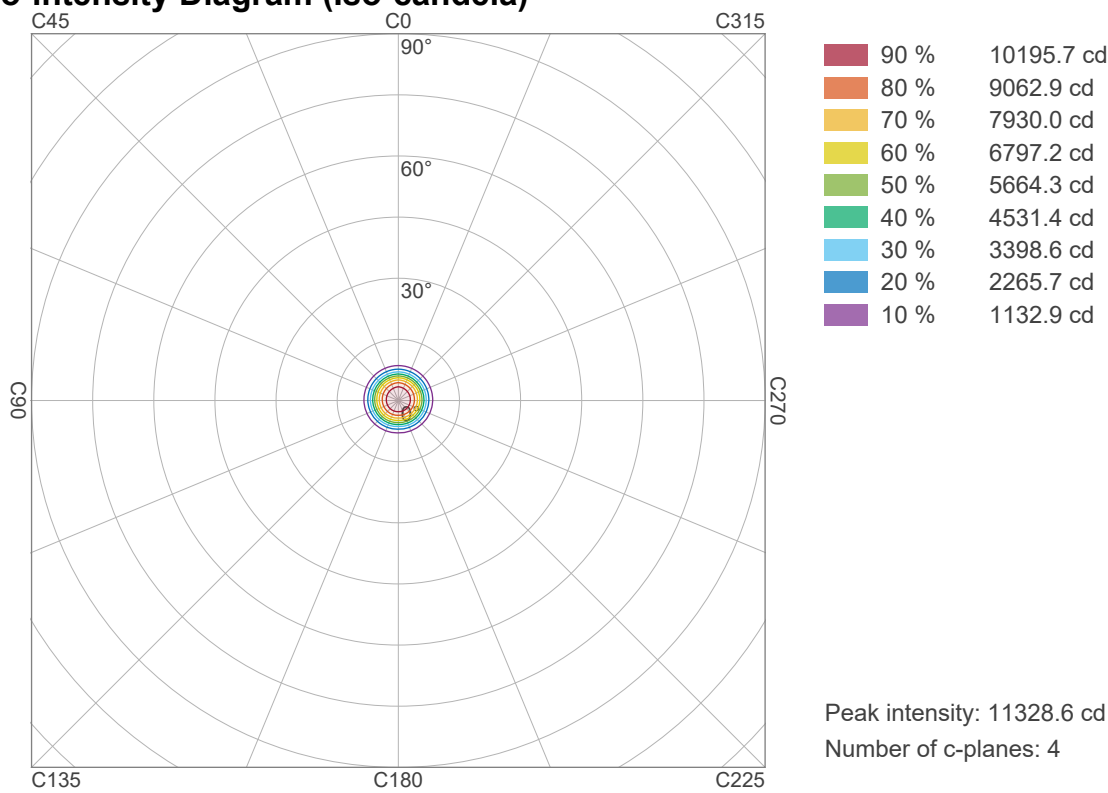


Luminaire budgetary diagram

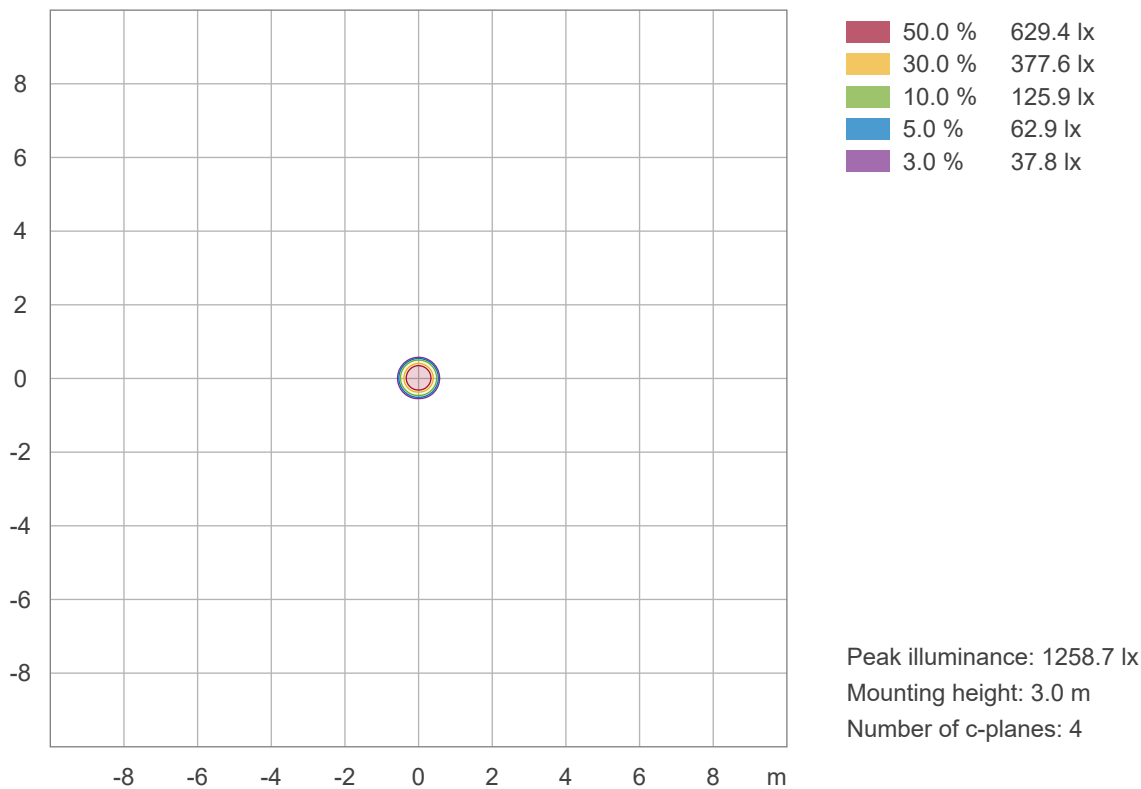
LAMPS (number of lamps)



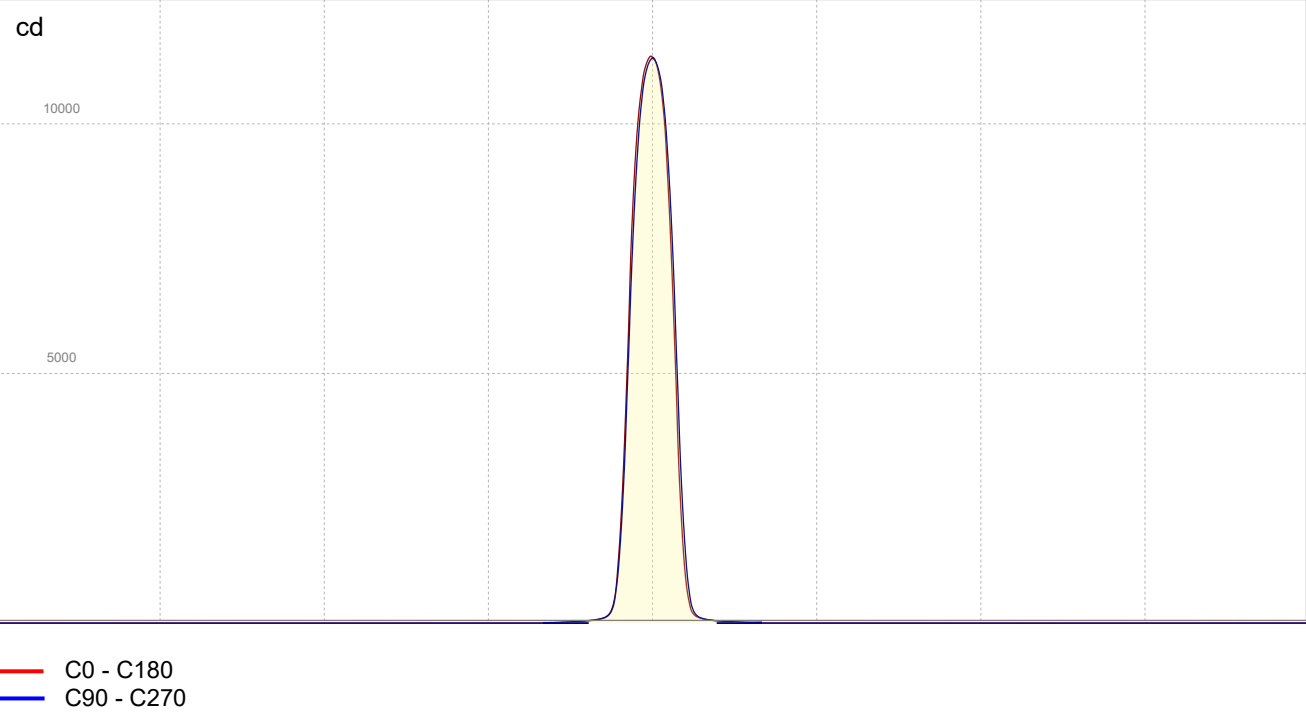
Iso-intensity Diagram (Iso-candela)



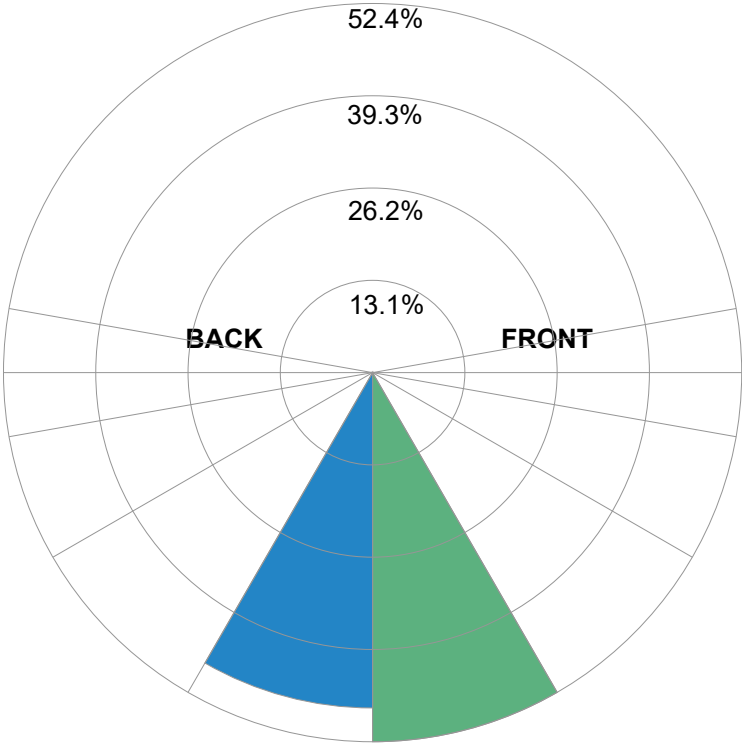
Iso-illuminance Diagram (Iso-lux)



Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires
BUG rating B1 U0 G0



Forward Light			
Low (0-30°)	270.4	Im	52.4%
Medium (30-60°)	0.1	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%
Back Light			
Low (0-30°)	245.6	Im	47.6%
Medium (30-60°)	0.1	Im	0%
High (60-80°)	0	Im	0%
Very High	0	Im	0%
Uplight			
Low (90-100°)	0	Im	0%
High (100-180°)	0	Im	0%
Total			
Sum	516	Im	100%

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

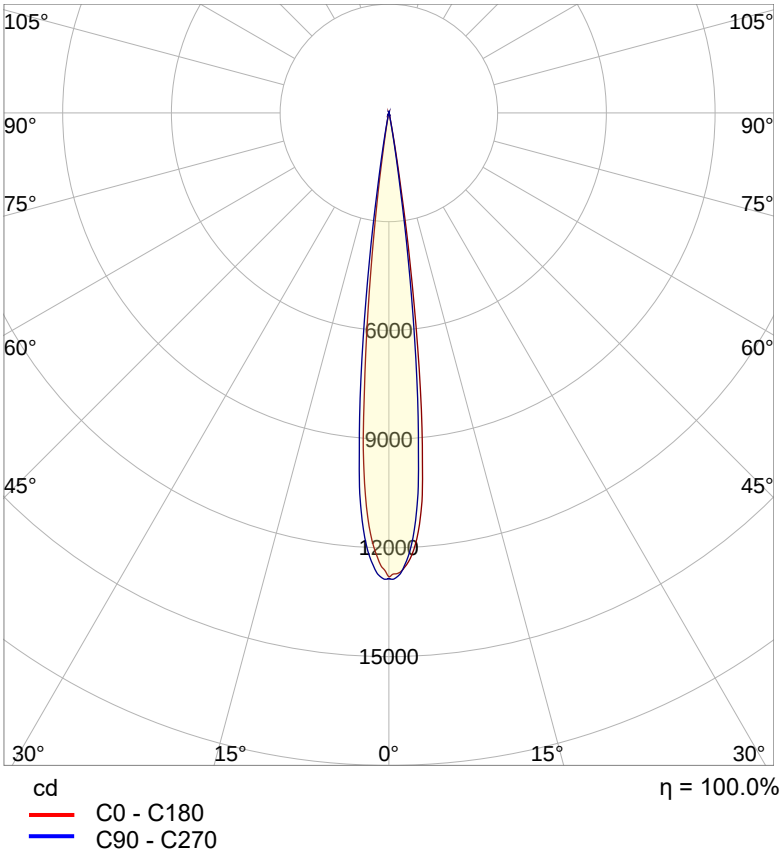
QuikBeam_OutputGain_Disabled_13D_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

586 lm – 0% / 100%
n/a lm/W
12867 cd
3200 K
CRI 0.0

Polar light distribution diagram

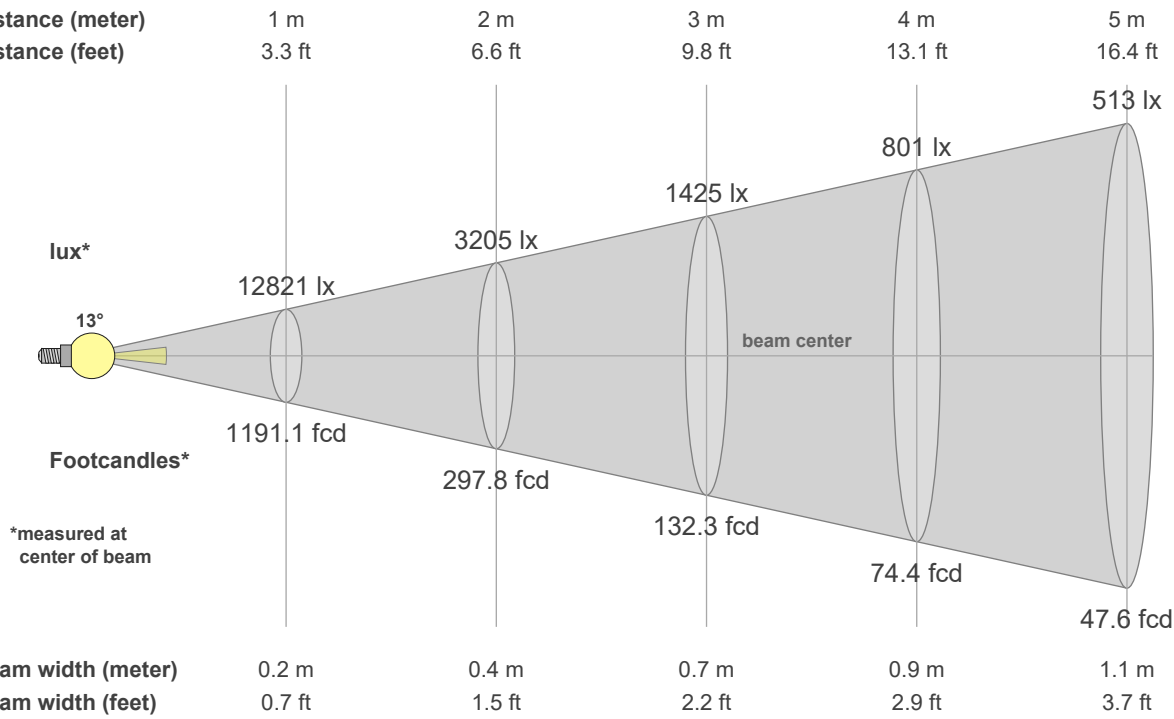


Test report

Light measurement results

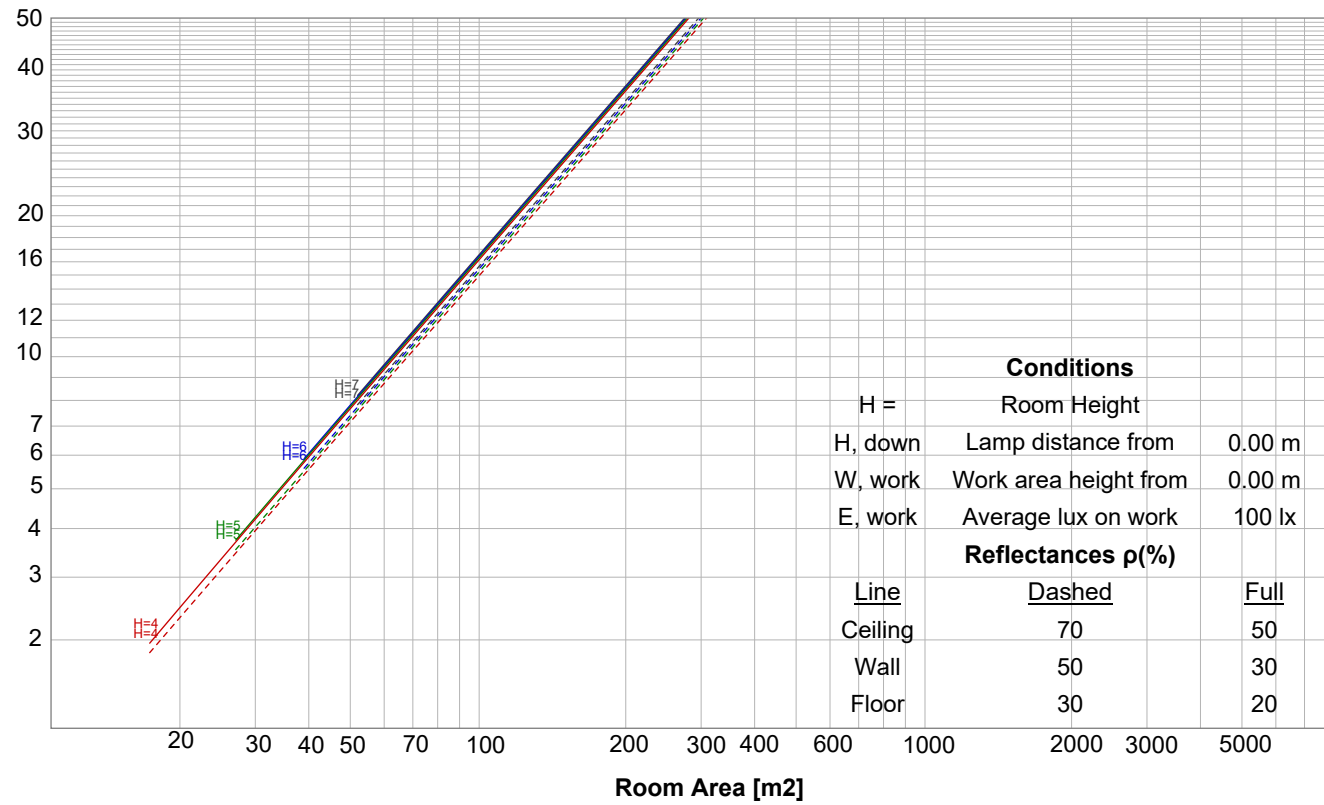
Print date 10/9/2025

Beam details

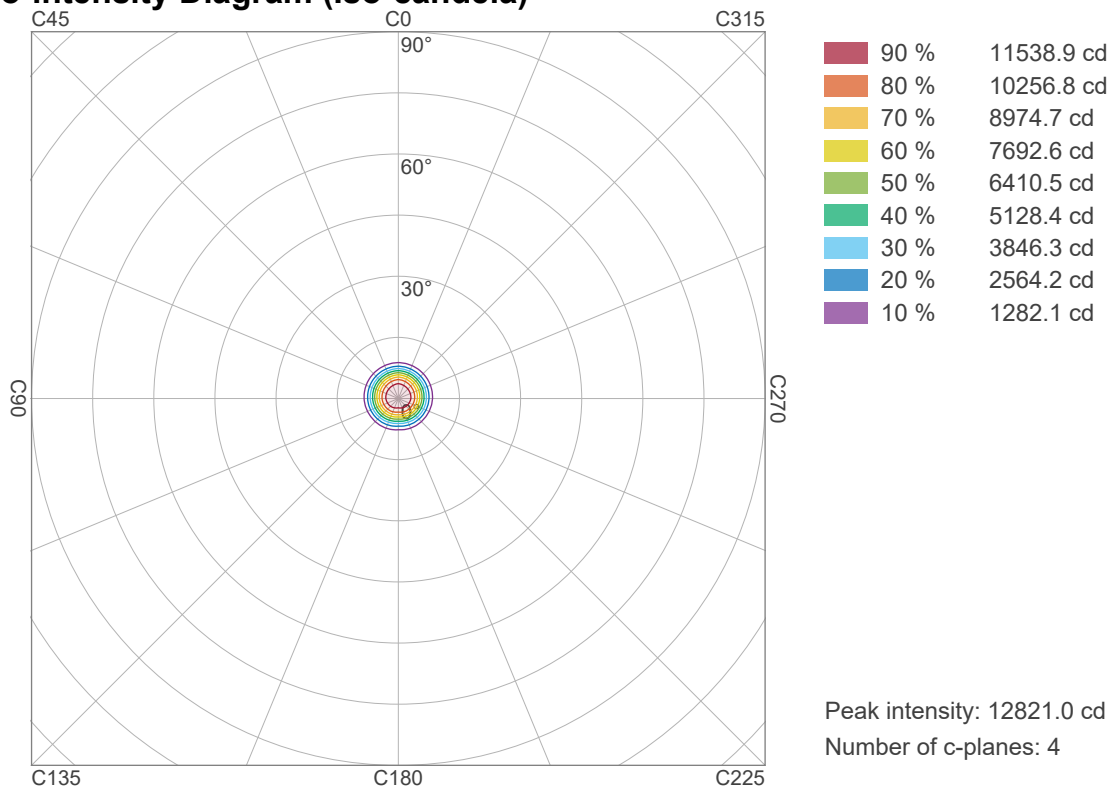


Luminaire budgetary diagram

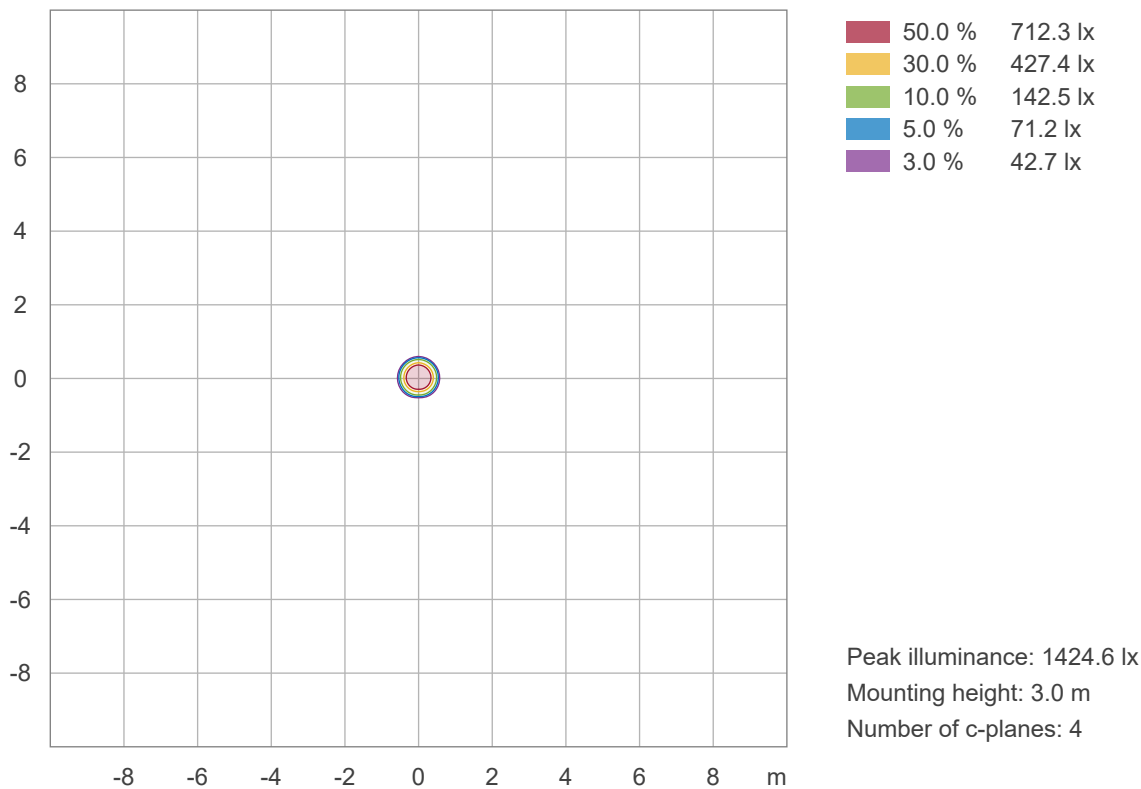
LAMPS (number of lamps)



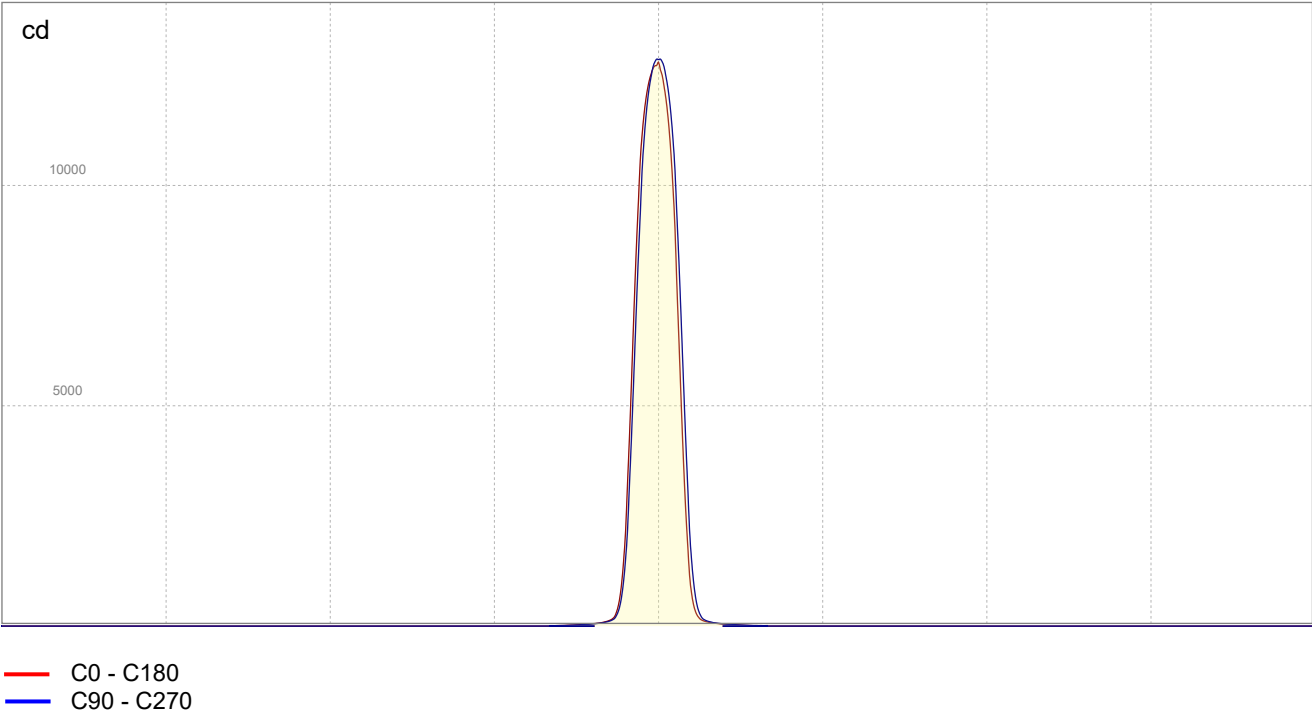
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

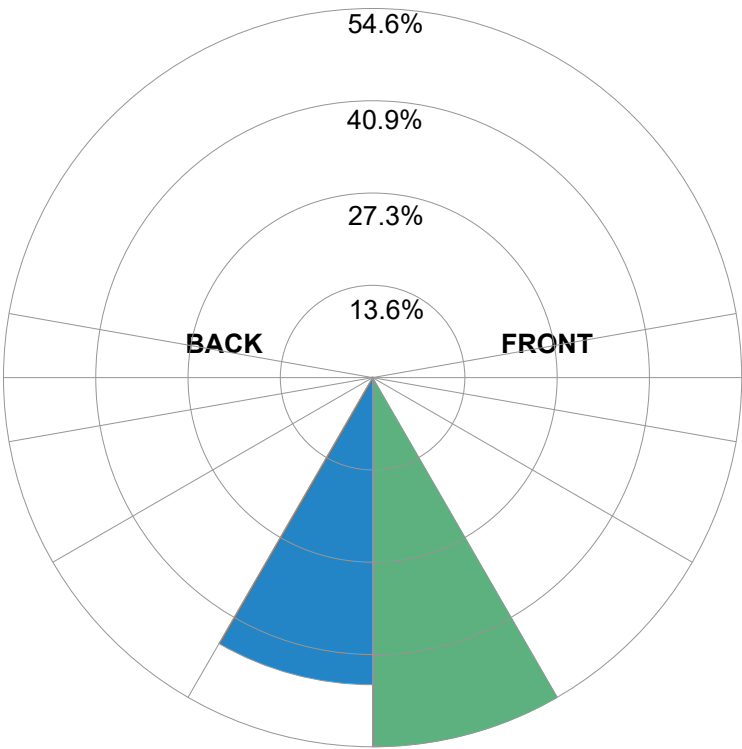


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	319.5	lm	54.6%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	265.8	lm	45.4%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	586	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

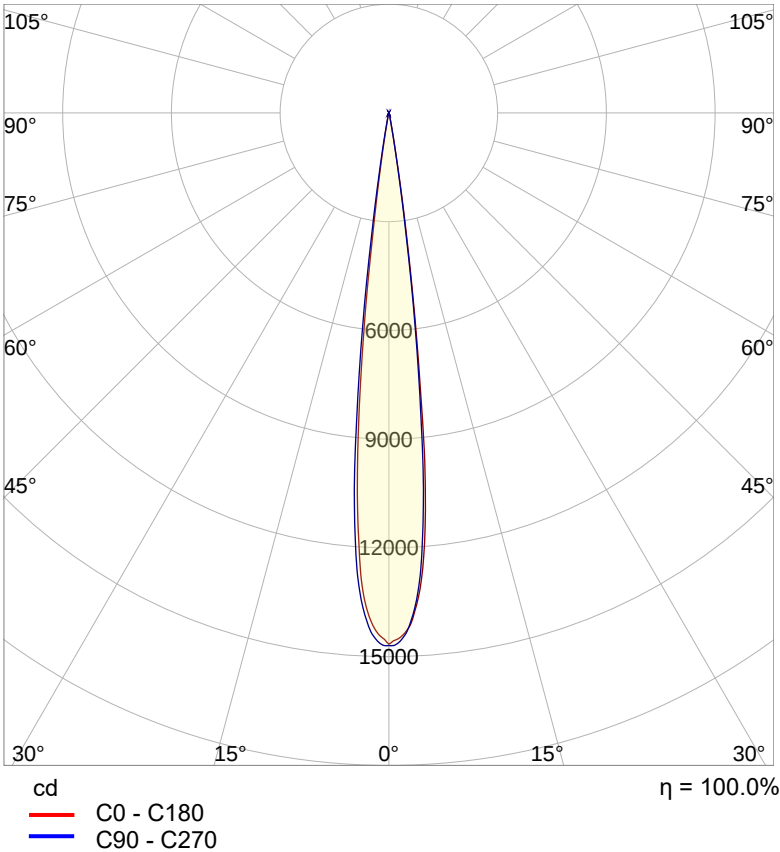
QuikBeam_OutputGain_Disabled_13D_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

670 lm – 0% / 100%
n/a lm/W
14695 cd
4000 K
CRI 0.0

Polar light distribution diagram

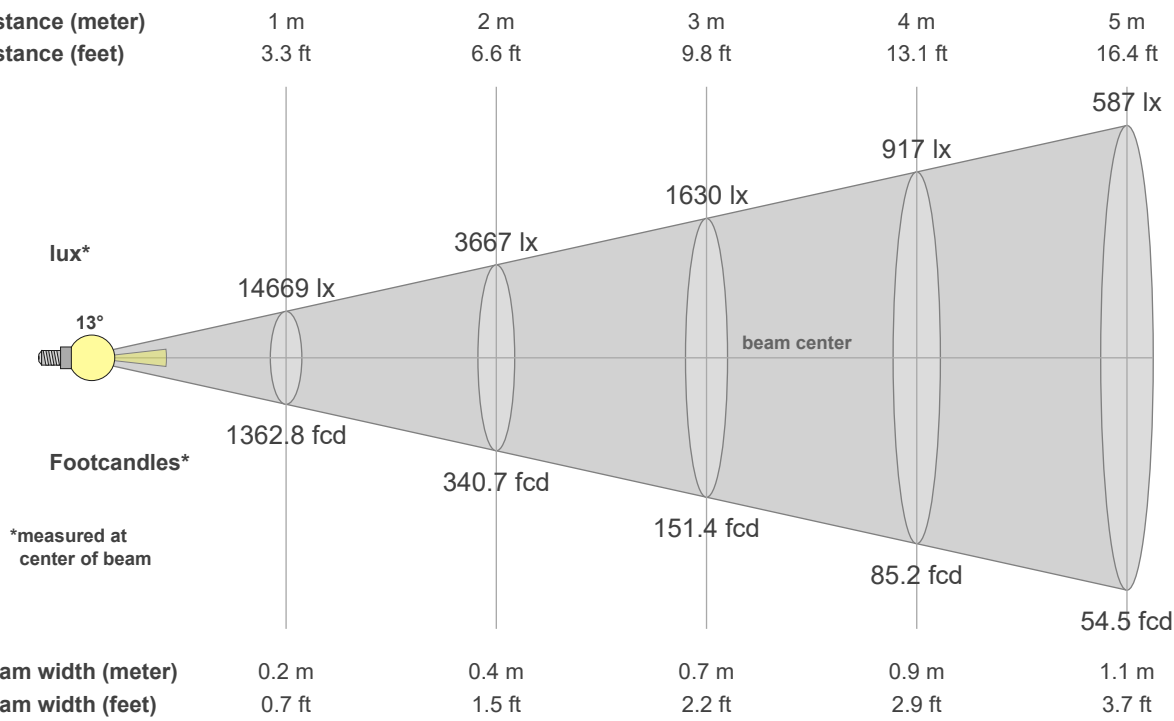


Test report

Light measurement results

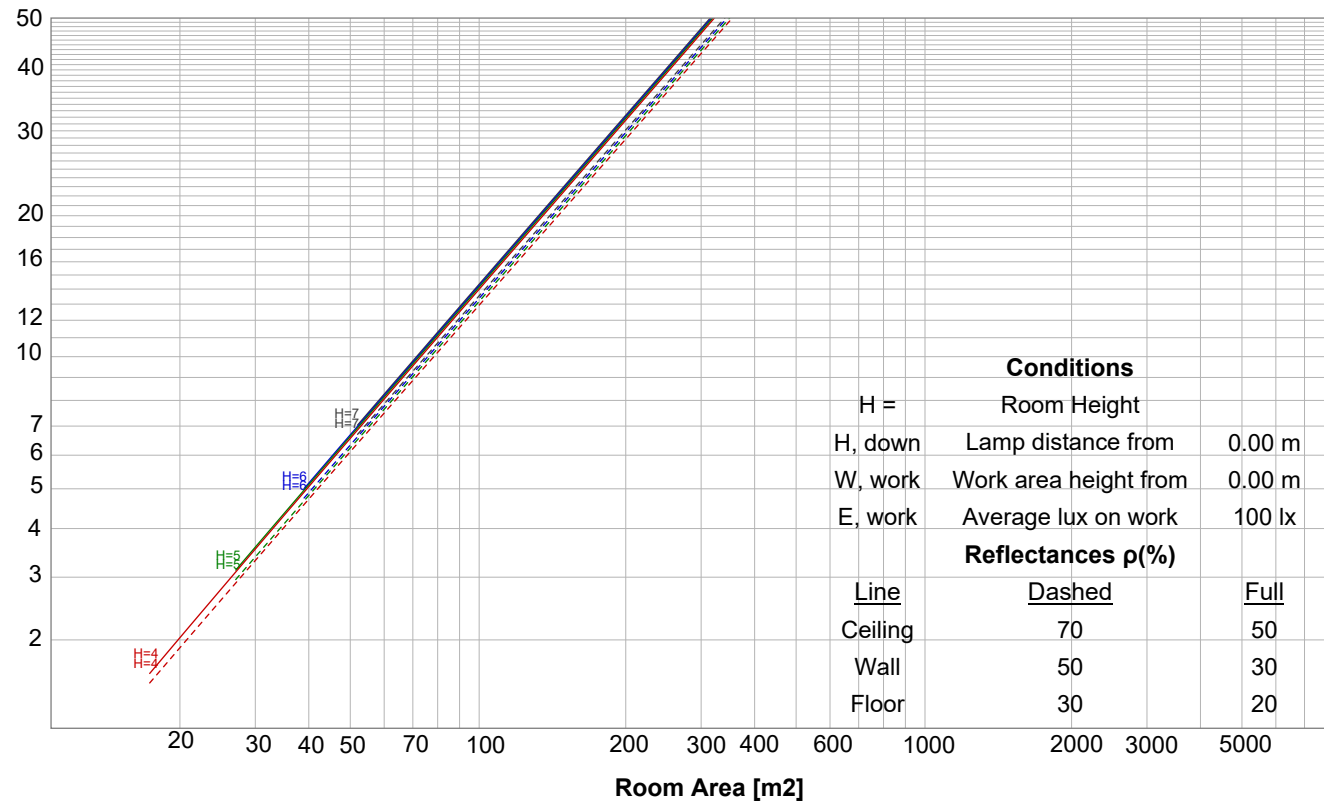
Print date 10/9/2025

Beam details

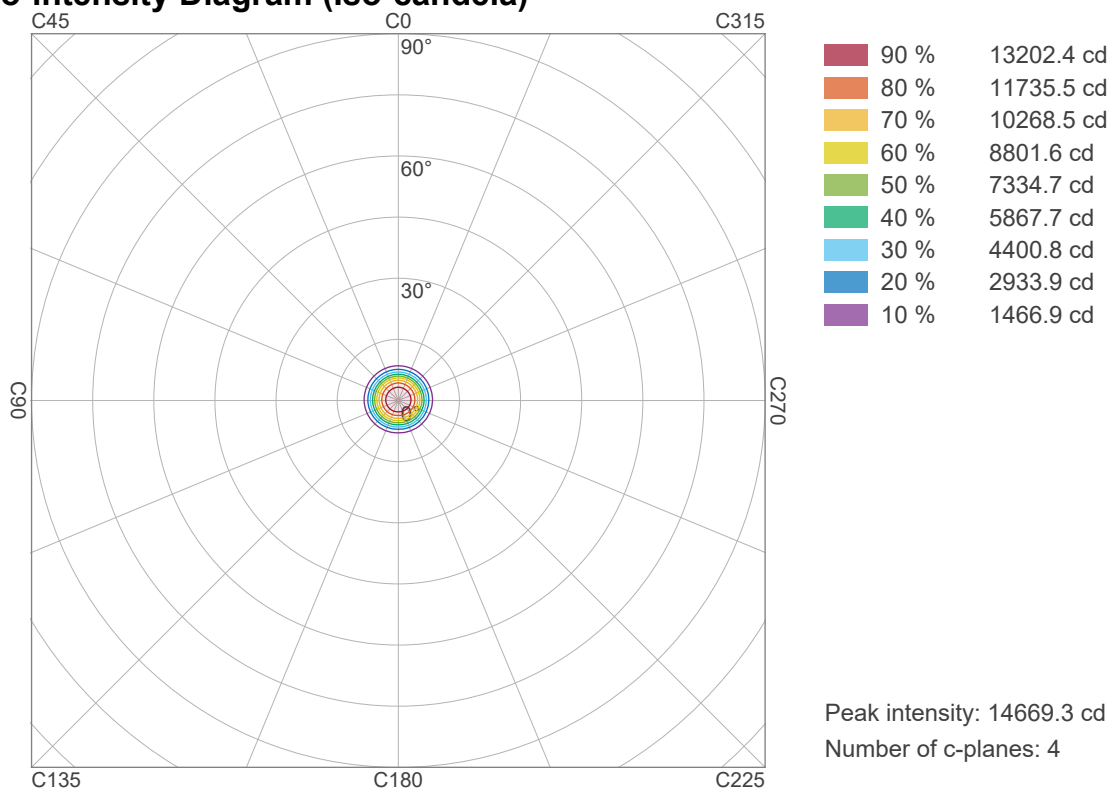


Luminaire budgetary diagram

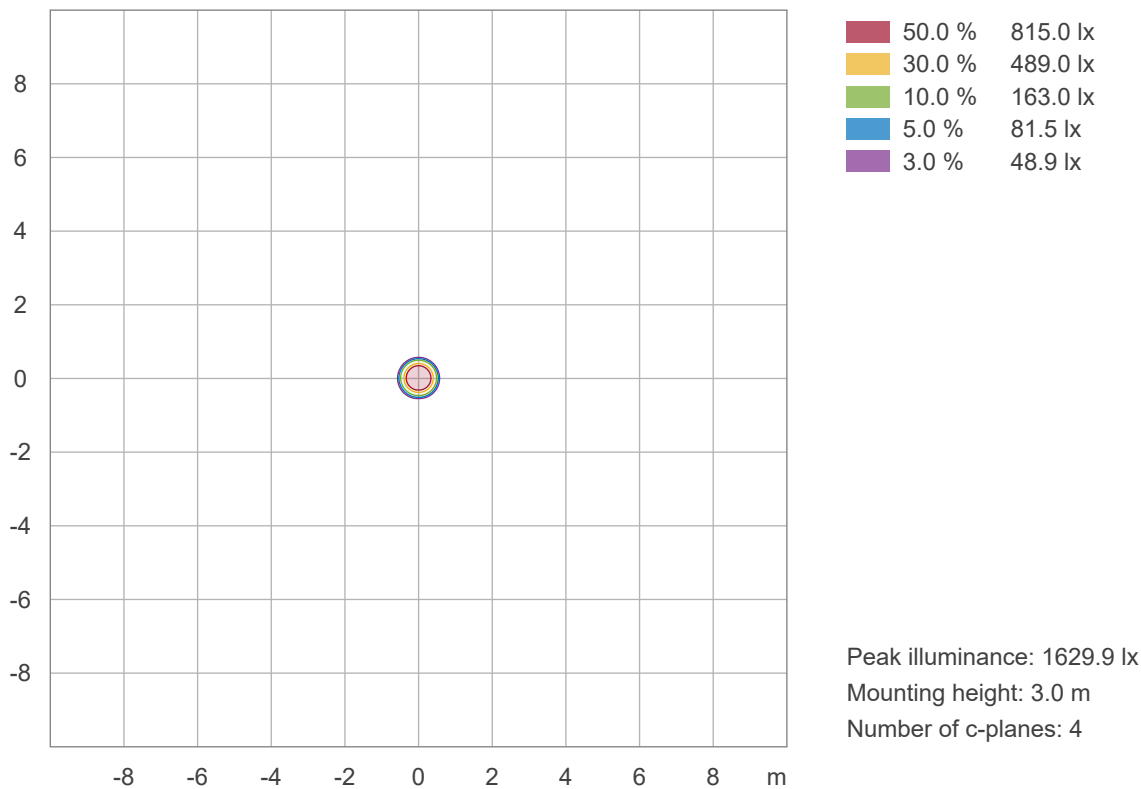
LAMPS (number of lamps)



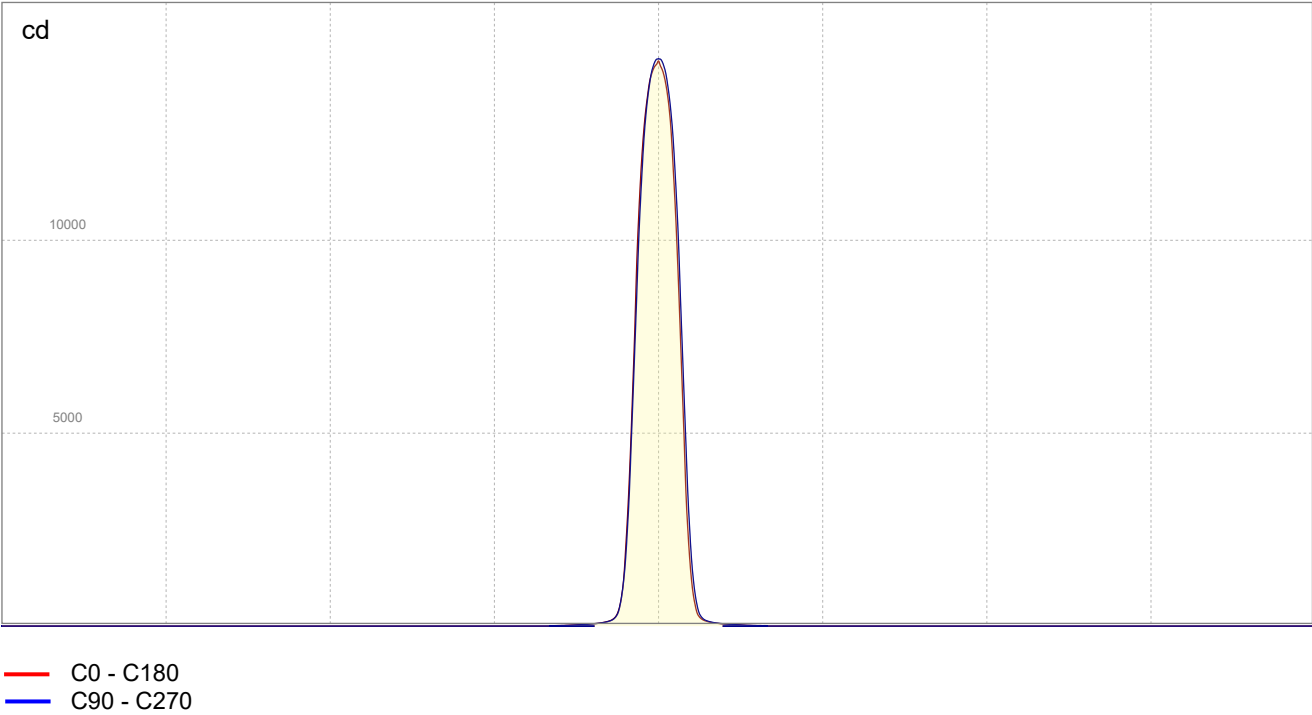
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

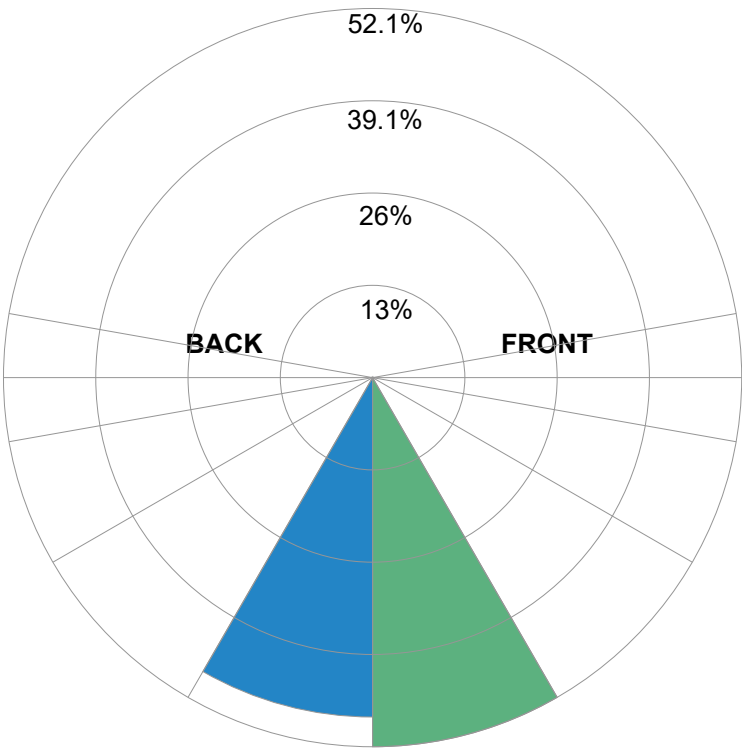


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	348.9	lm	52.1%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	320.8	lm	47.9%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	670	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

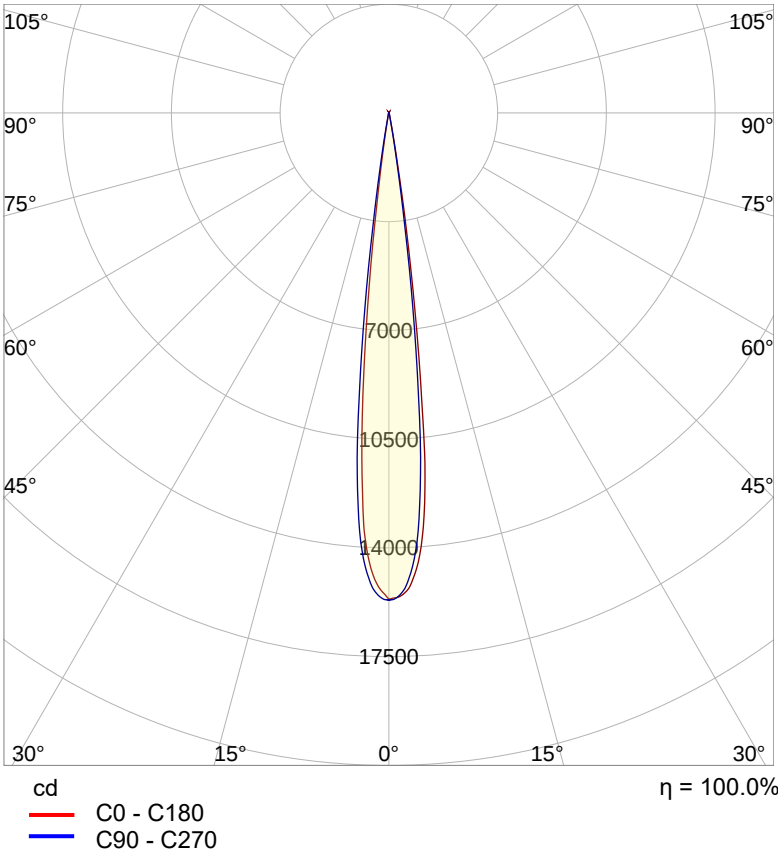
QuikBeam_OutputGain_Disabled_13D_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

721 lm – 0% / 100%
n/a lm/W
15675 cd
5500 K
CRI 0.0

Polar light distribution diagram

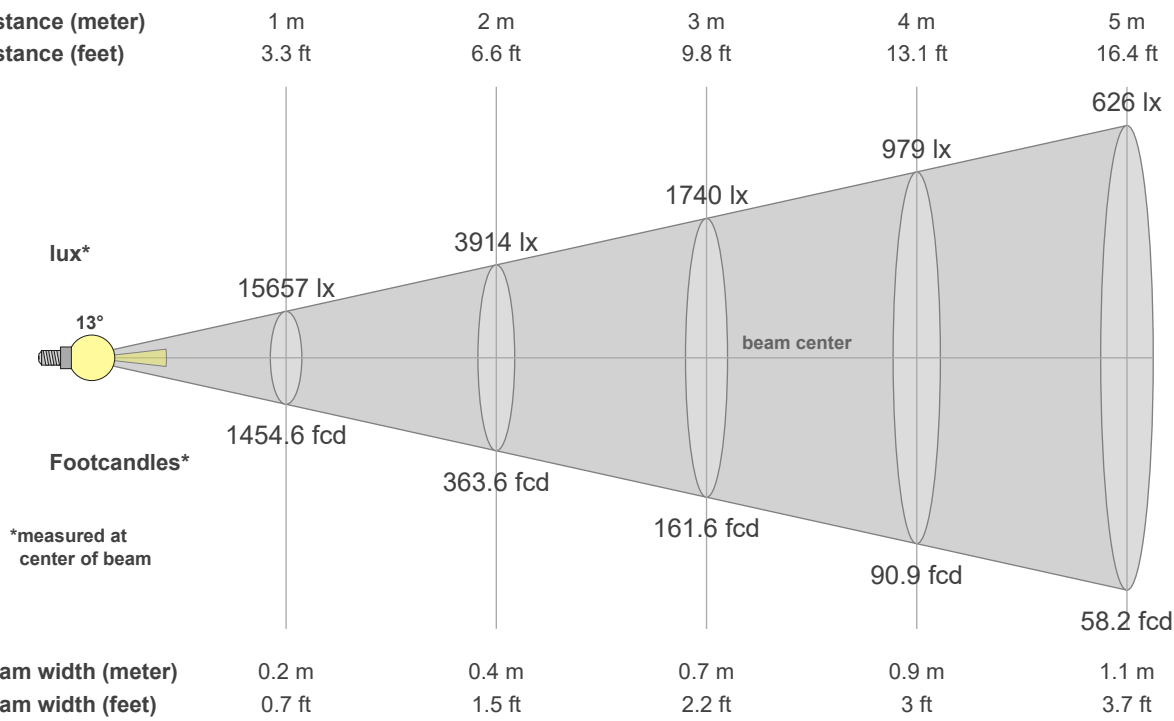


Test report

Light measurement results

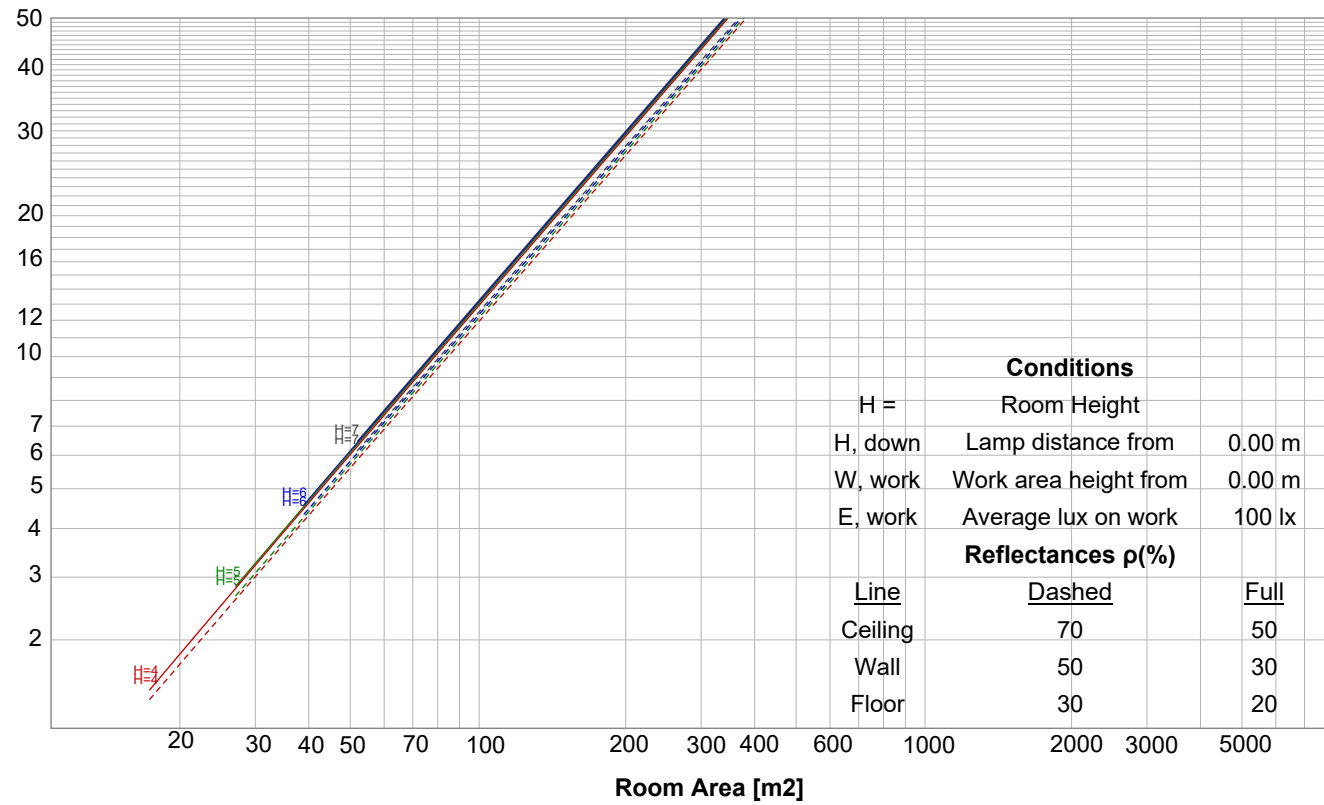
Print date 10/9/2025

Beam details

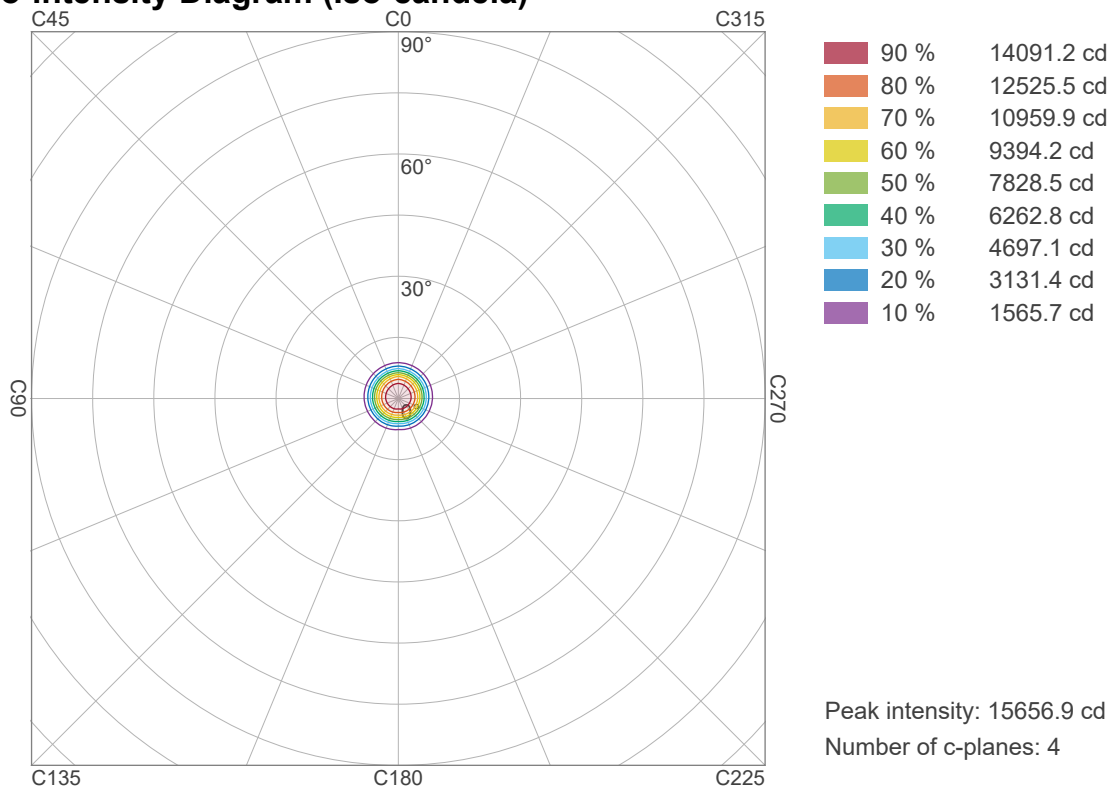


Luminaire budgetary diagram

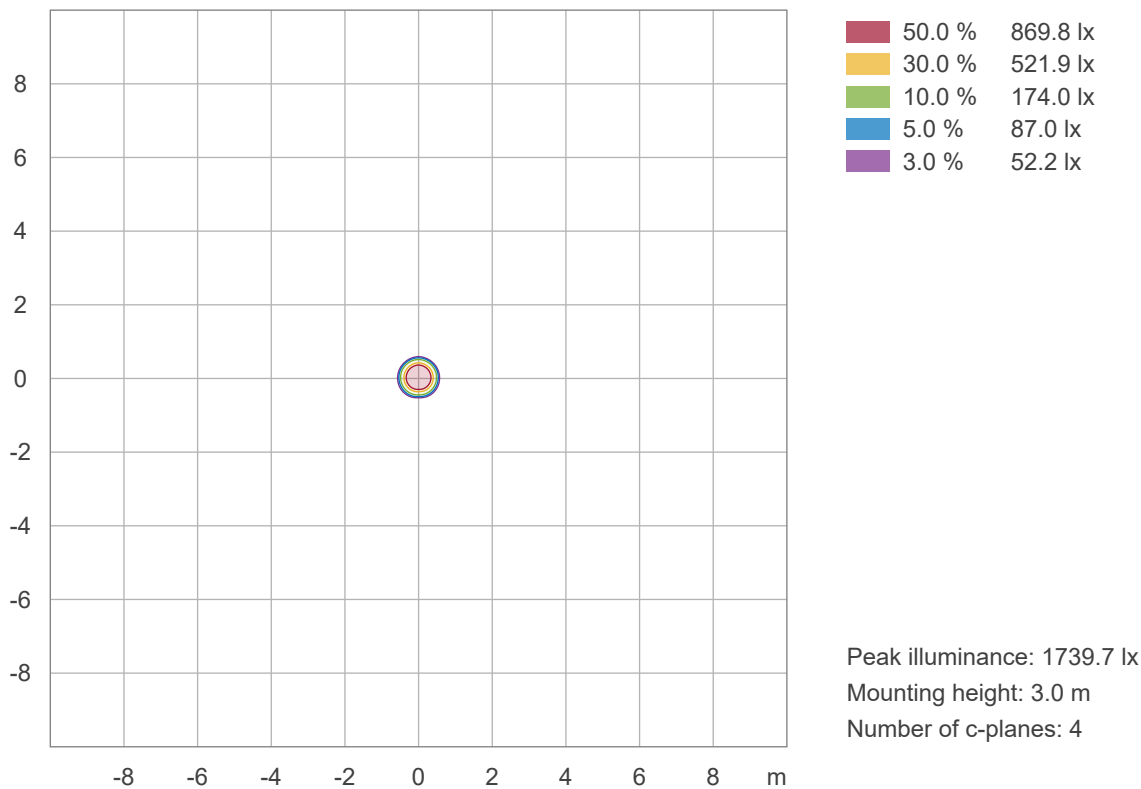
LAMPS (number of lamps)



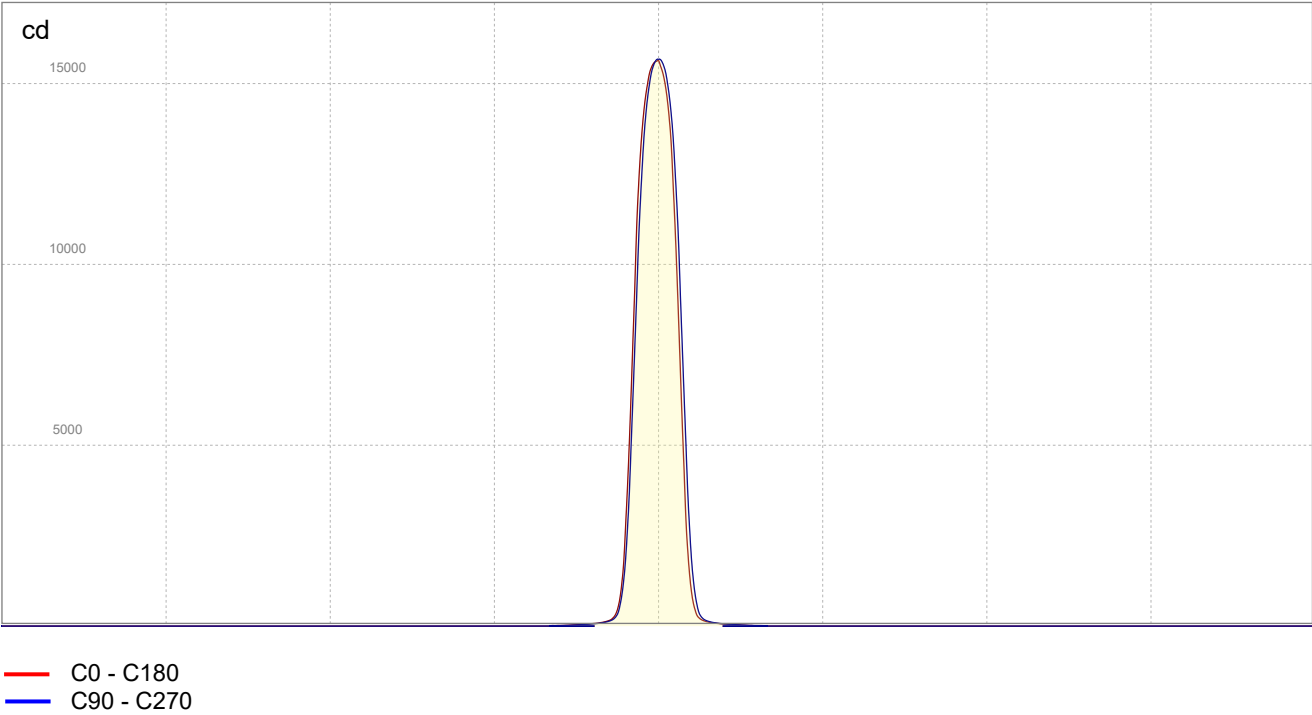
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

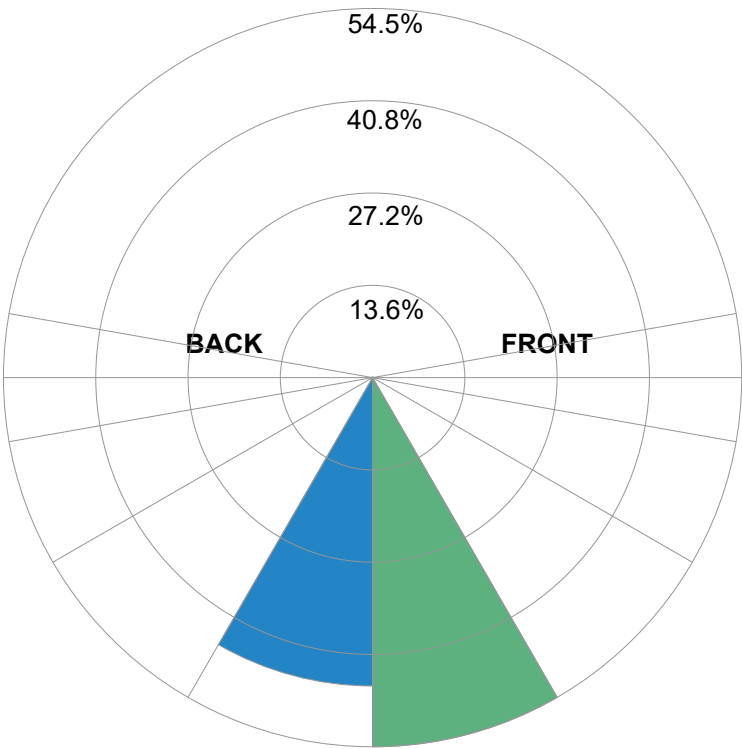


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	392.6	lm	54.5%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	328	lm	45.5%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	721	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

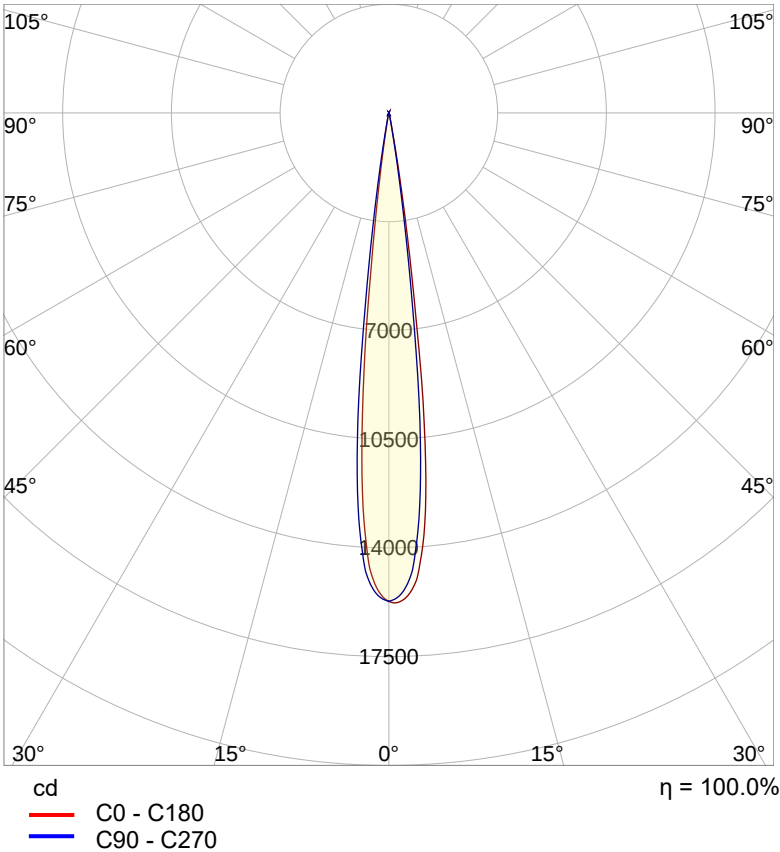
QuikBeam_OutputGain_Disabled_13D_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

727 lm – 0% / 100%
n/a lm/W
15767 cd
6500 K
CRI 0.0

Polar light distribution diagram

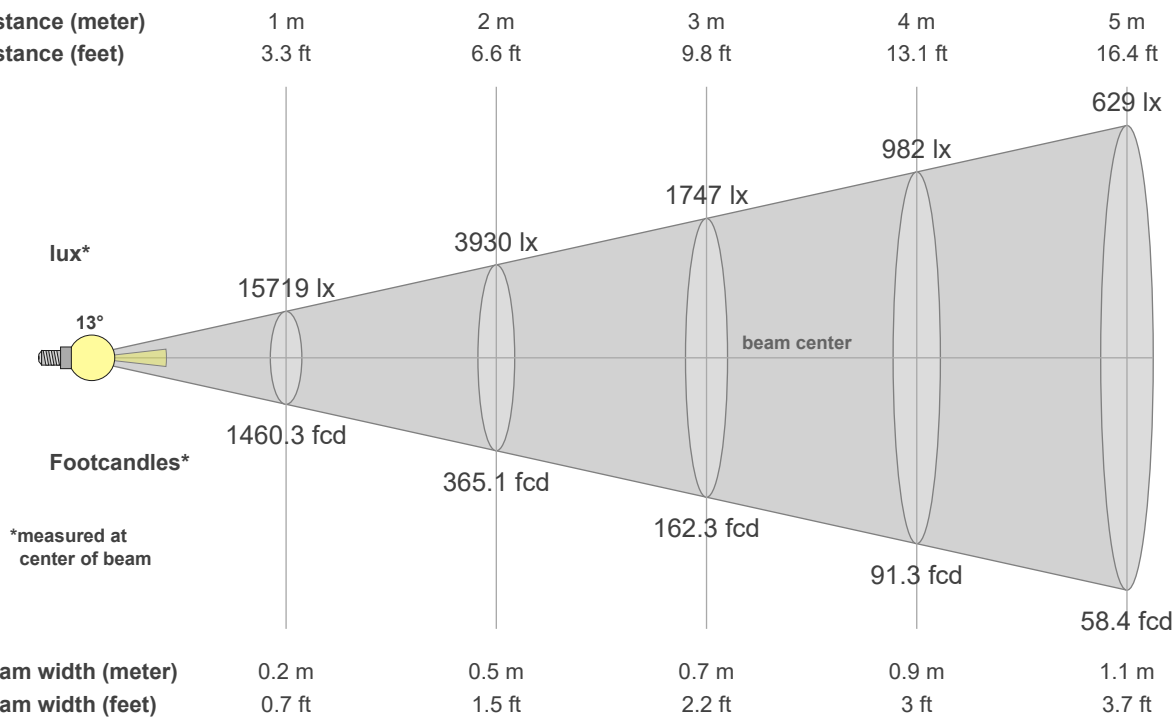


Test report

Light measurement results

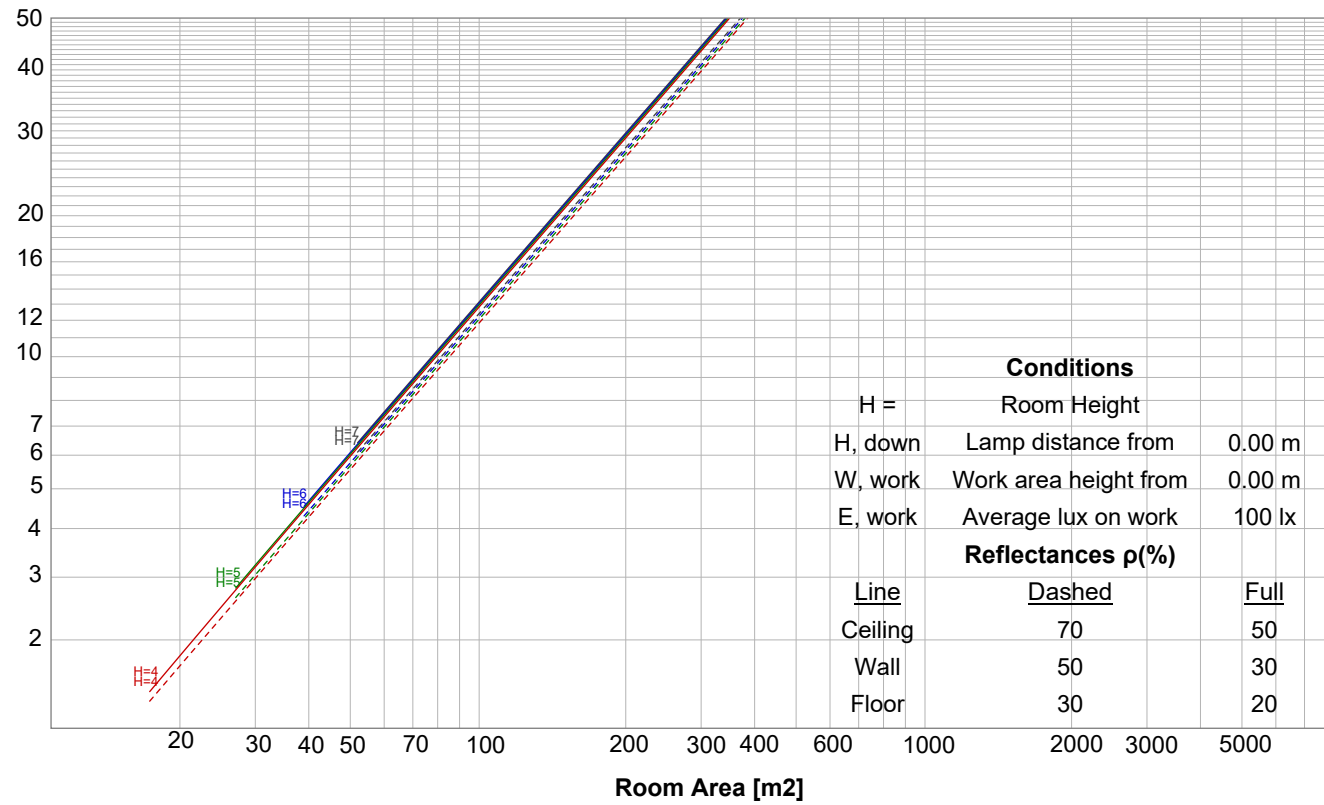
Print date 10/9/2025

Beam details

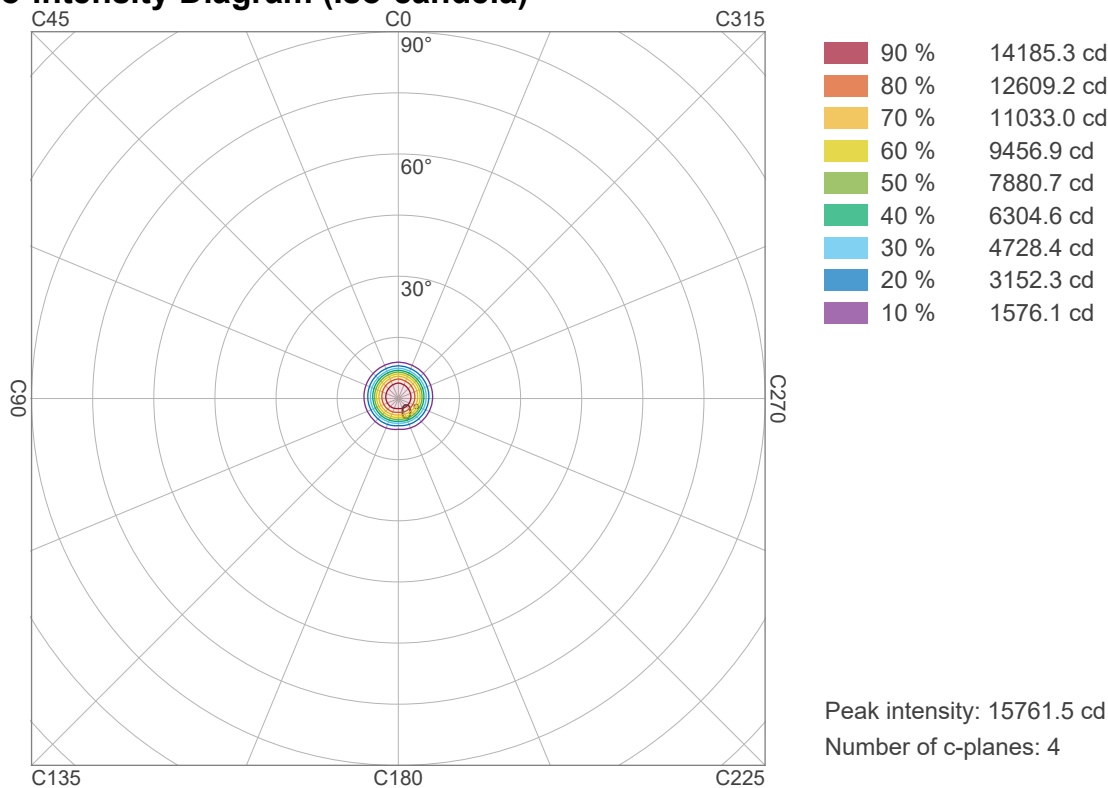


Luminaire budgetary diagram

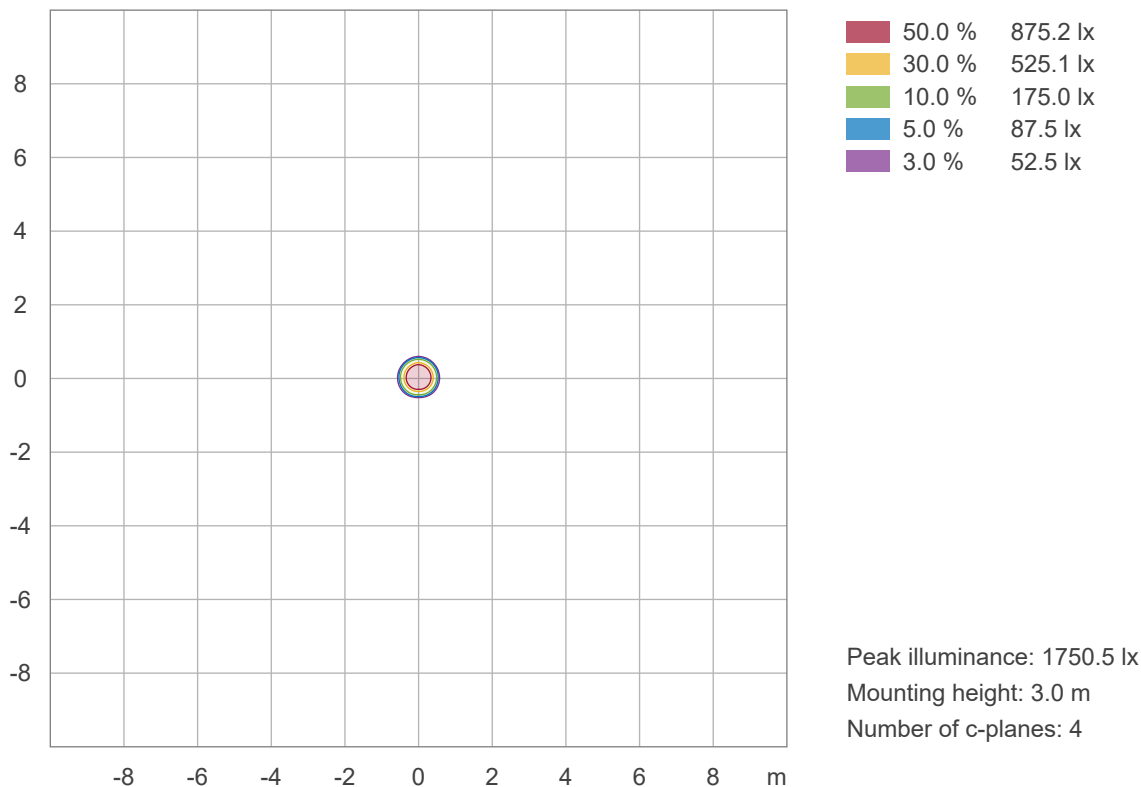
LAMPS (number of lamps)



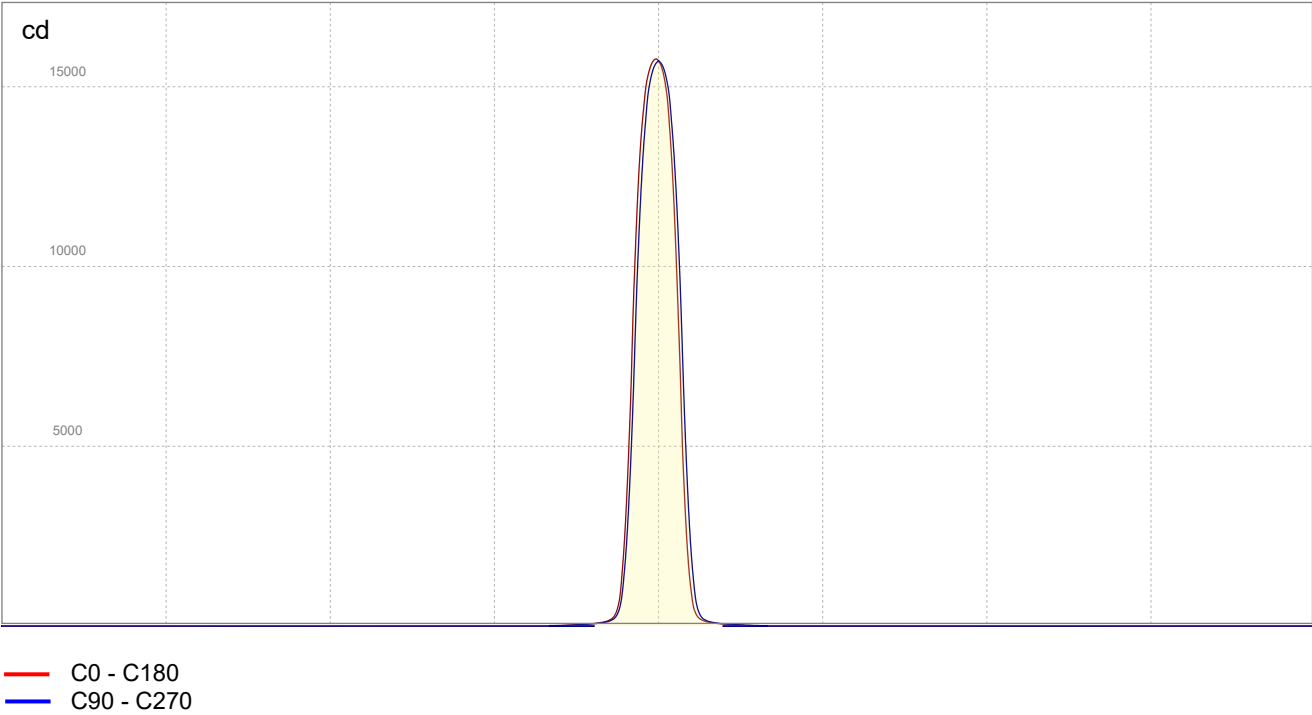
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

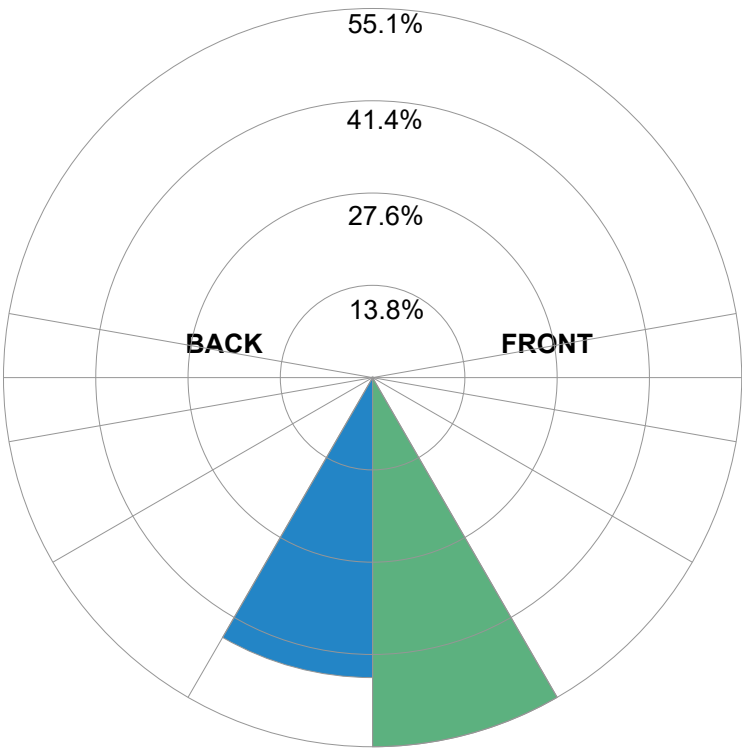


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	400.6	lm	55.1%
Medium (30-60°)	0.2	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	325.6	lm	44.8%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	727	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer

QuikBeam_OutputGain_Disabled_30D_2700K
SPOT

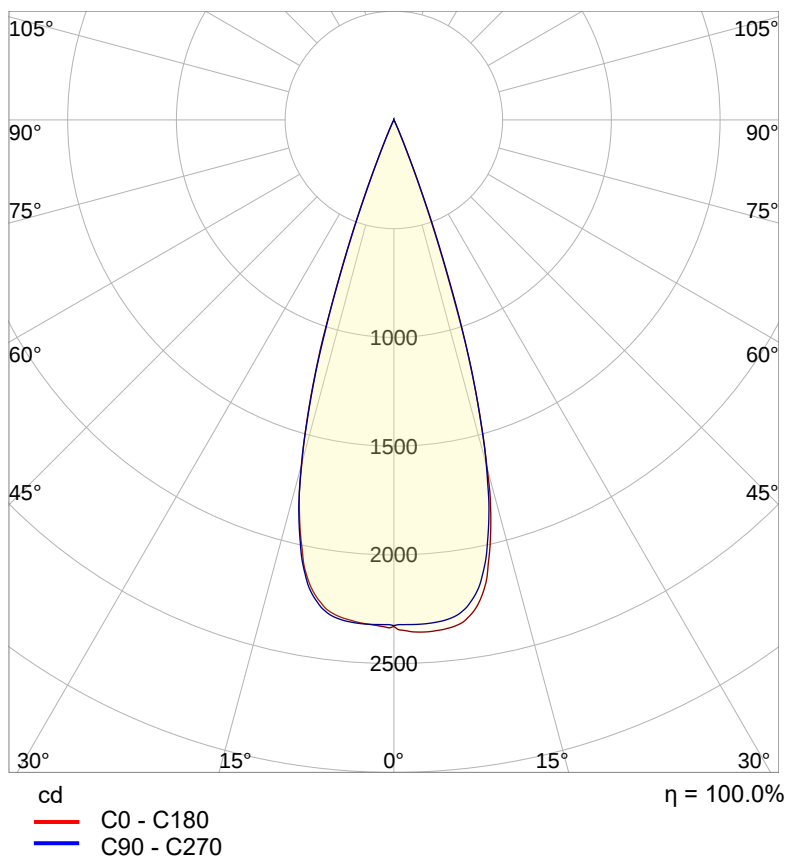
Astera

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

676 lm – 0% / 100%
n/a lm/W
2359 cd
2700 K
CRI 0.0

Polar light distribution diagram

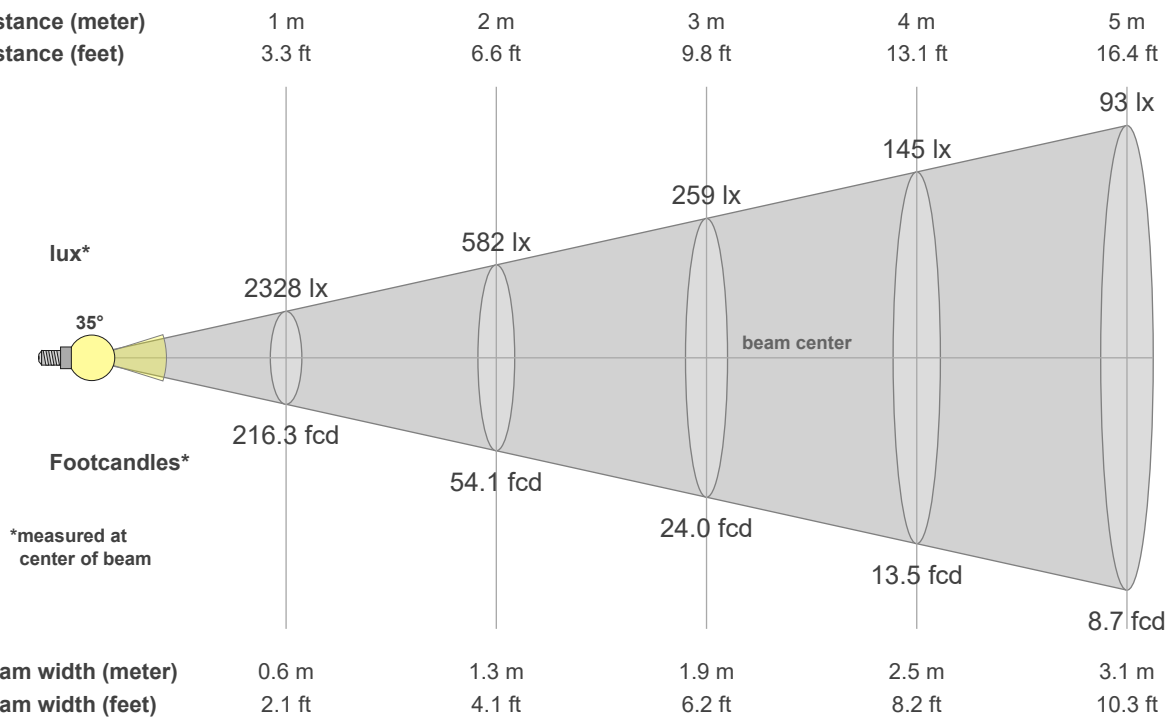


Test report

Light measurement results

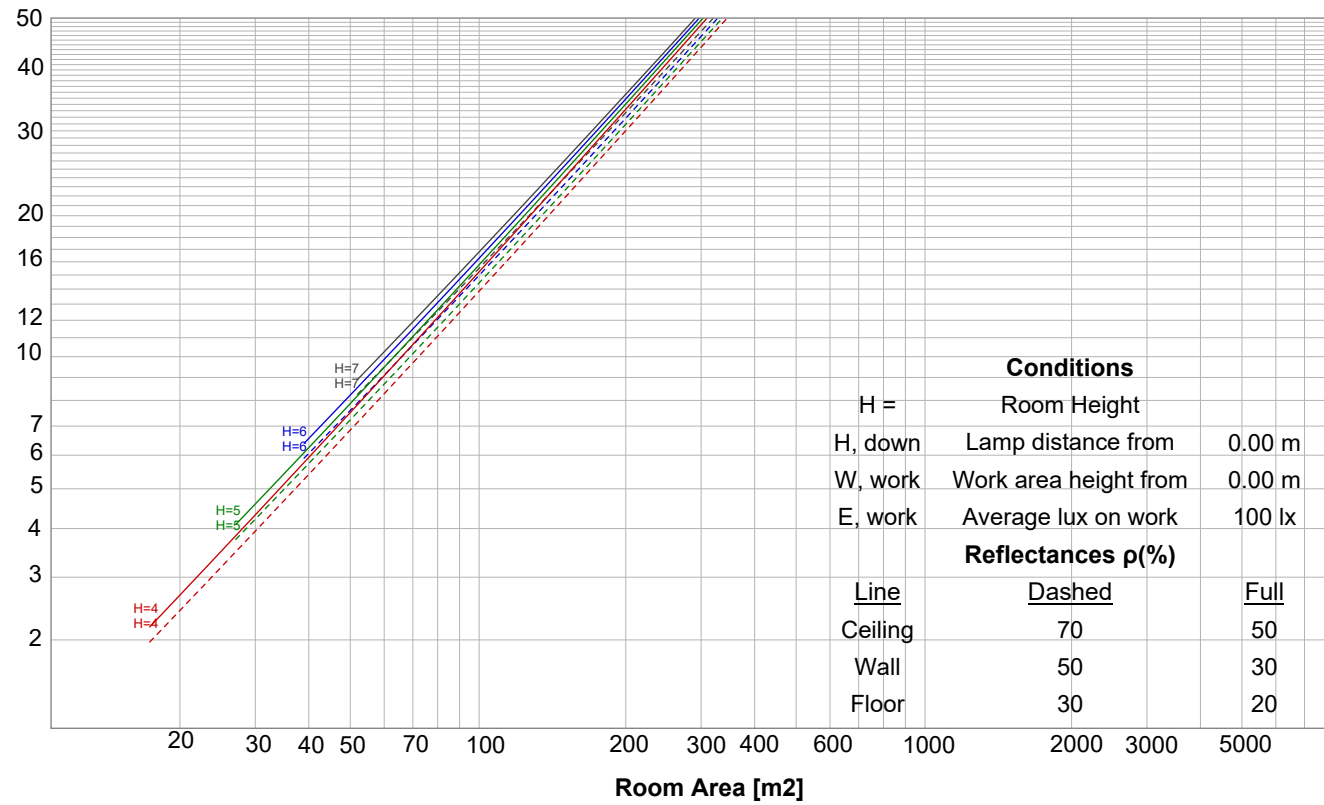
Print date 10/9/2025

Beam details

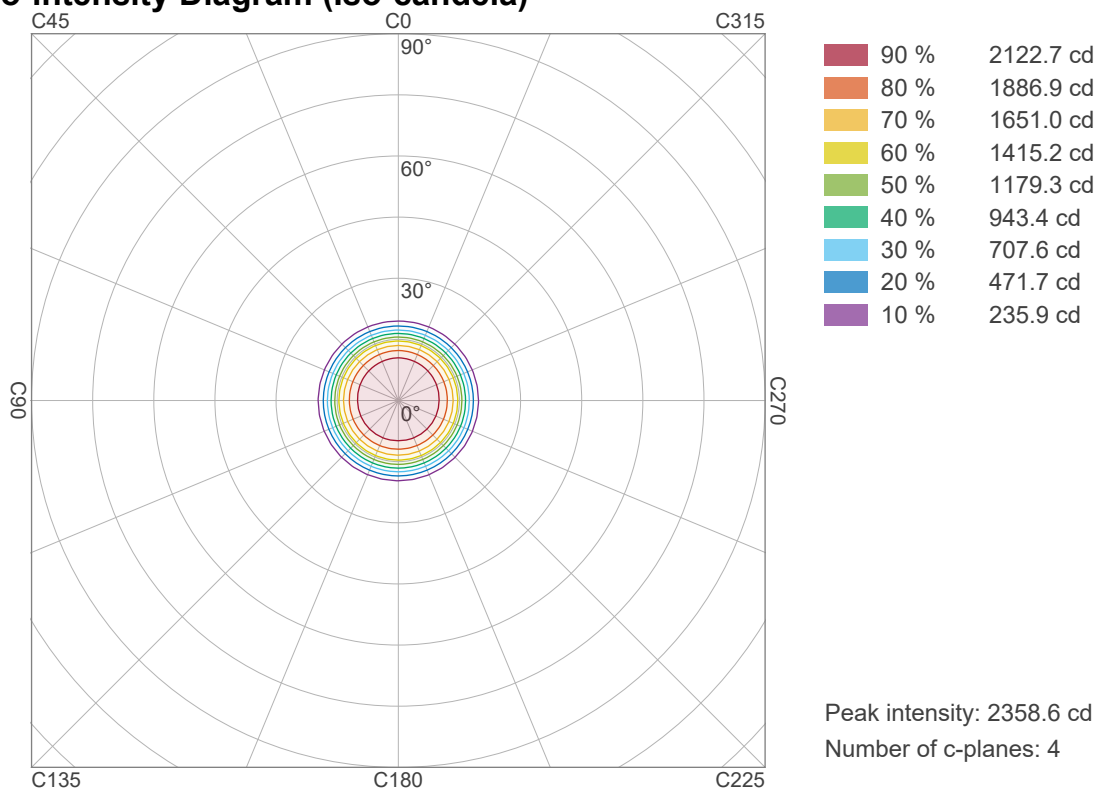


Luminaire budgetary diagram

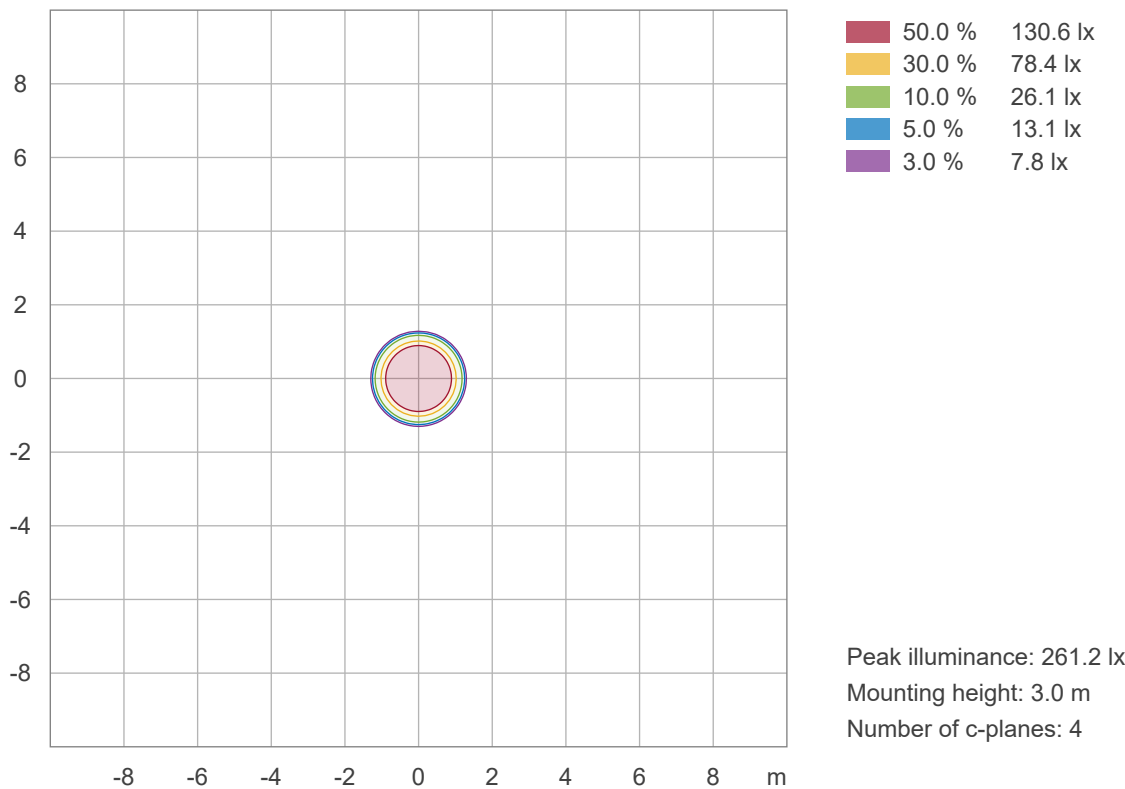
LAMPS (number of lamps)



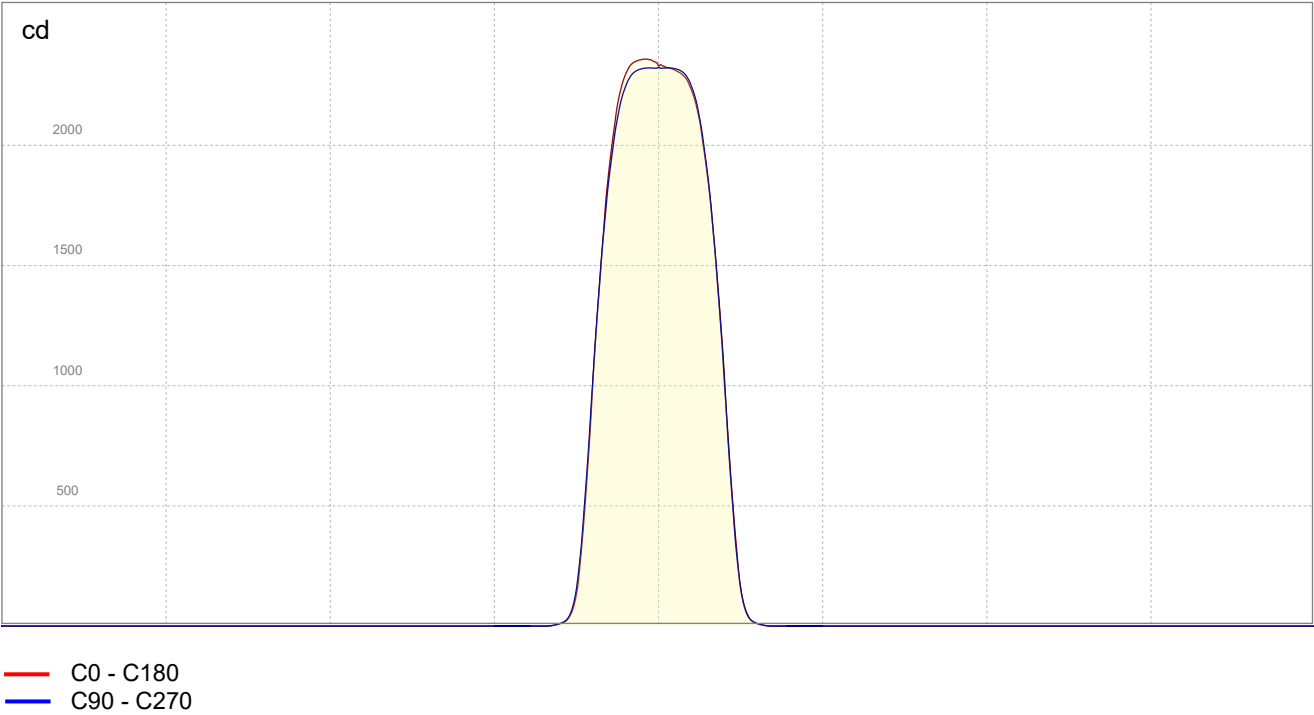
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

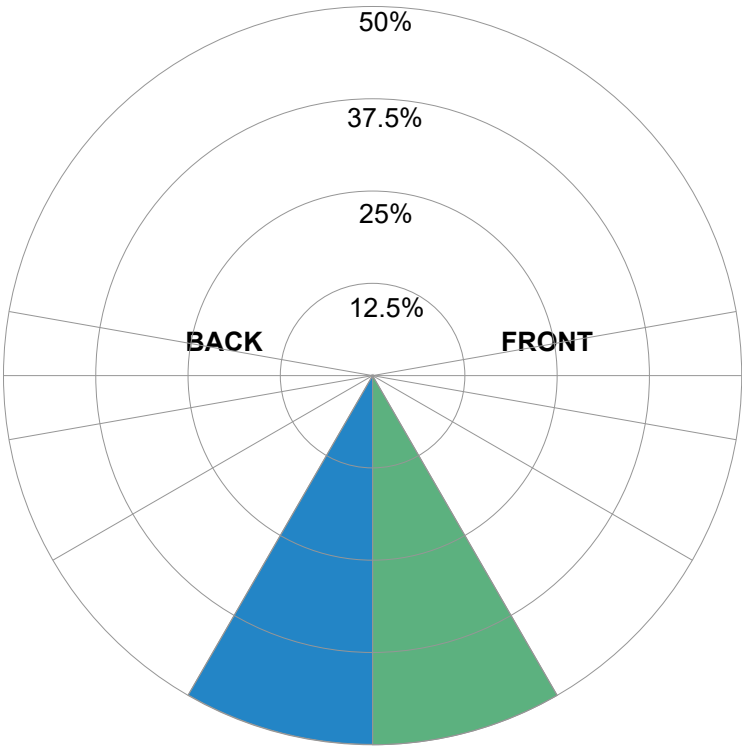


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light			
Low (0-30°)	338.3	lm	50%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%
Back Light			
Low (0-30°)	337.9	lm	50%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%
Uplight			
Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%
Total			
Sum	676	lm	100%

Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer

QuikBeam_OutputGain_Disabled_30D_3200K
SPOT

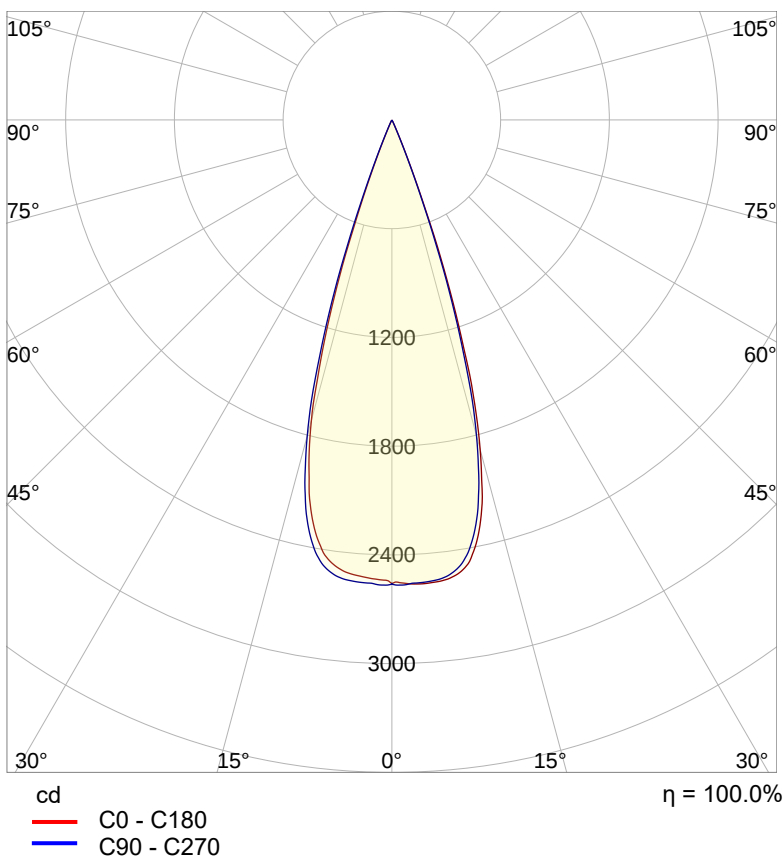
Astera

Main Light Measurement Results

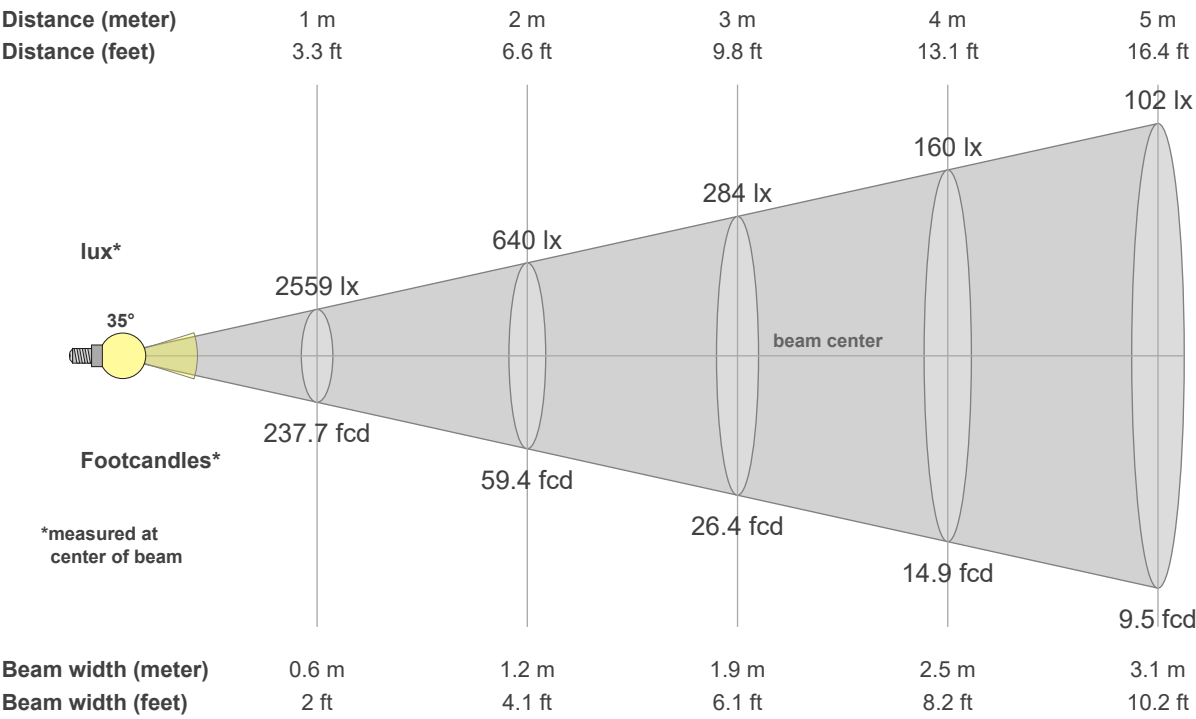
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

739 lm – 0% / 100%
n/a lm/W
2567 cd
3200 K
CRI 0.0

Polar light distribution diagram

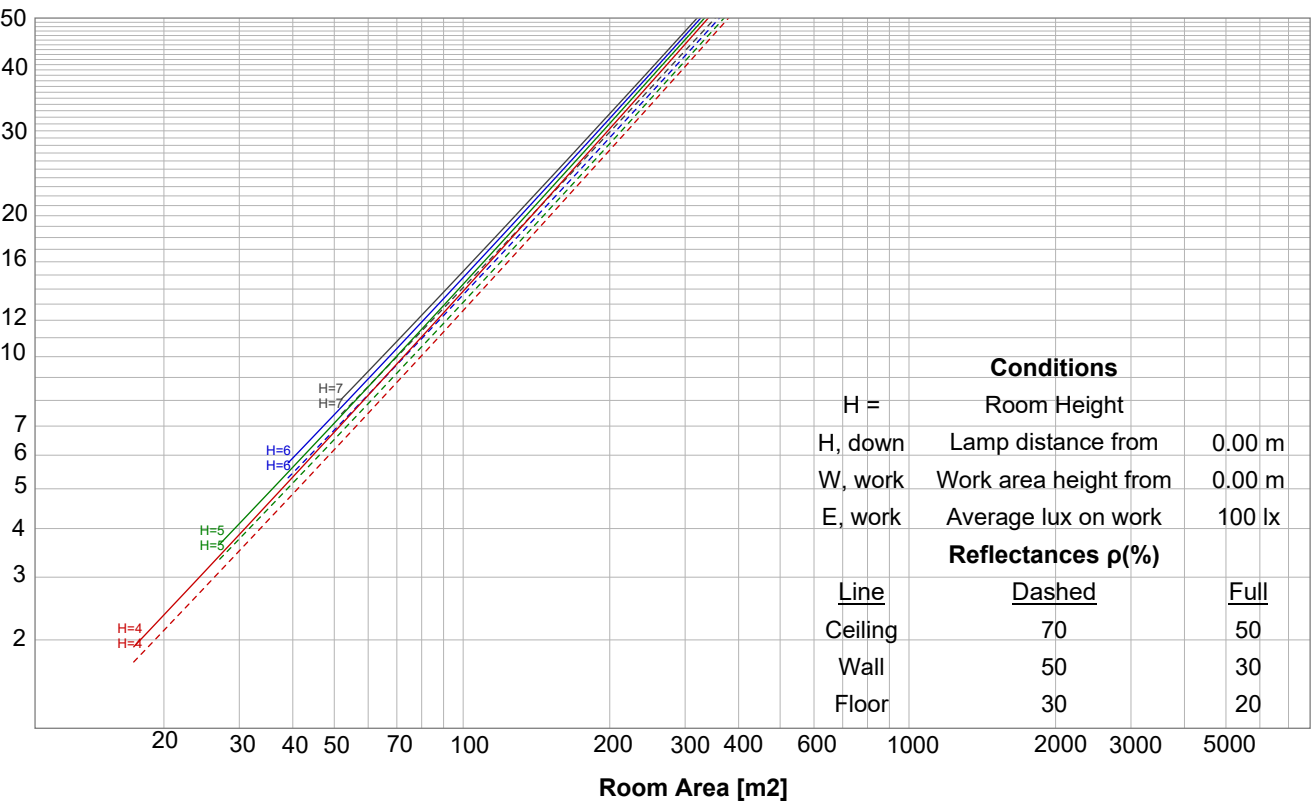


Beam details

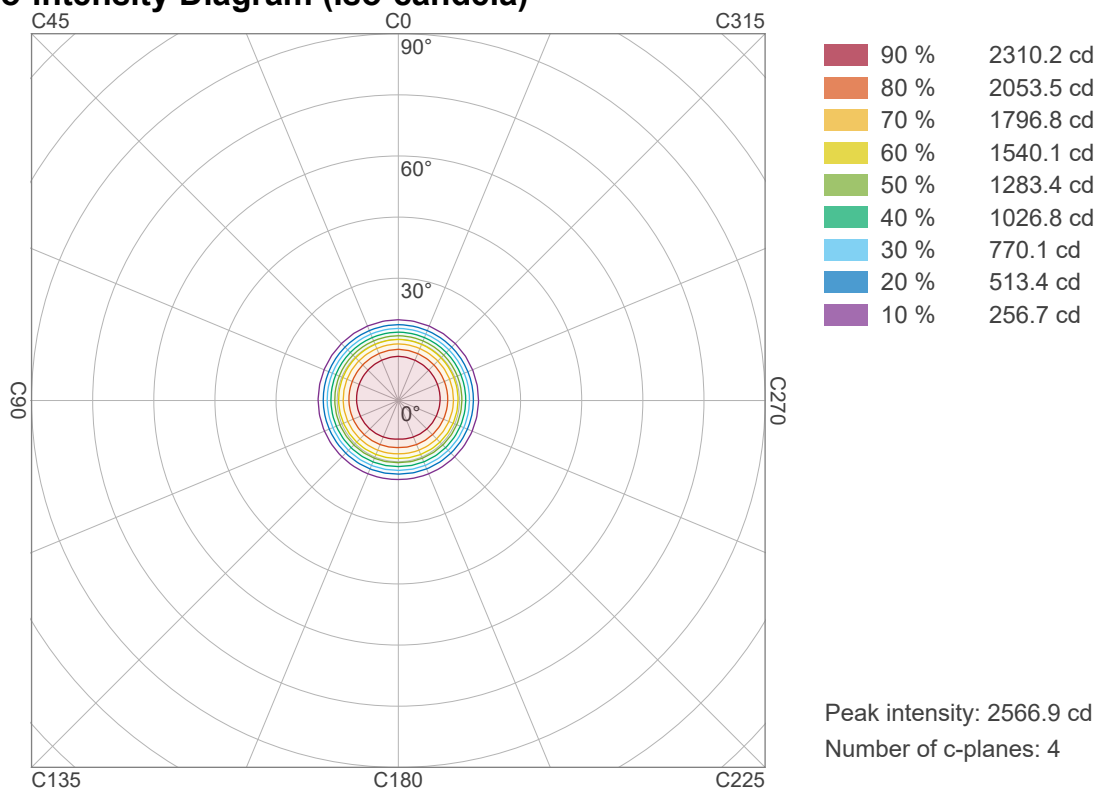


Luminaire budgetary diagram

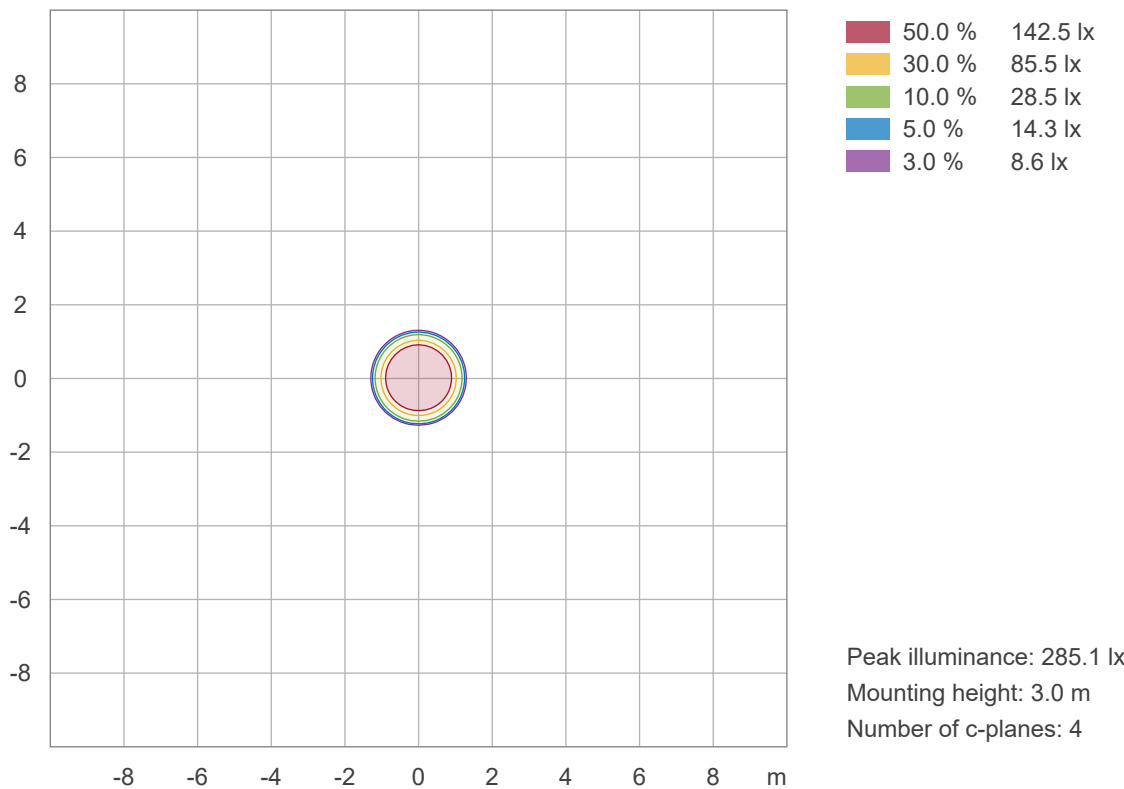
LAMPS (number of lamps)



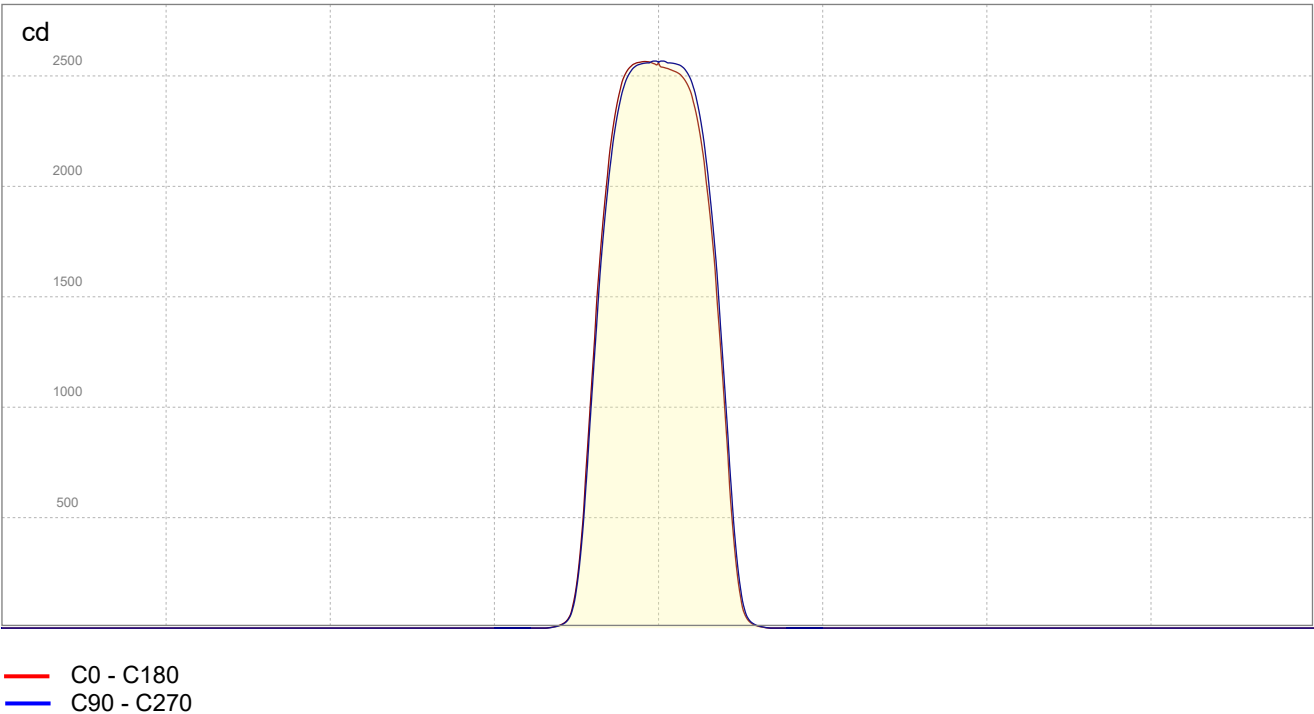
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

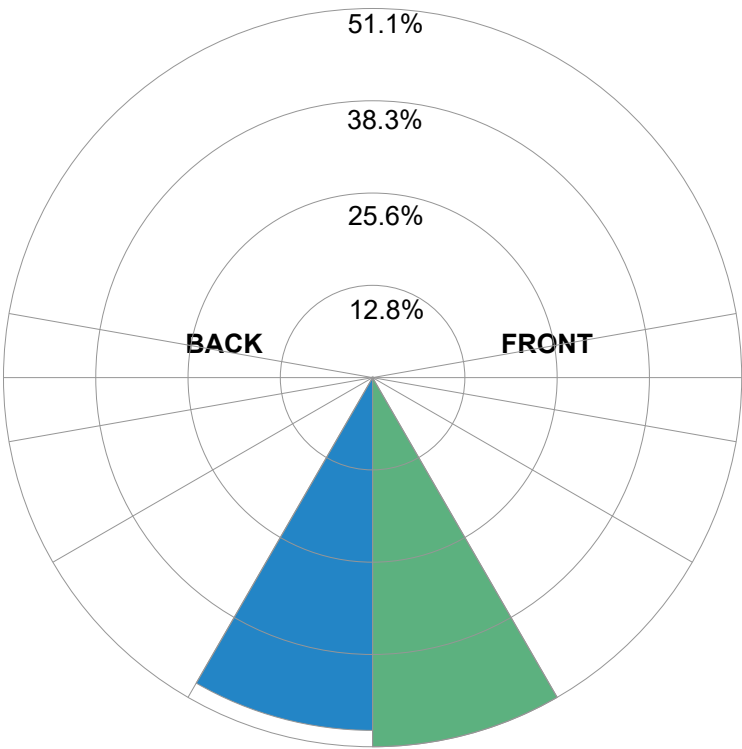


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	377.8	lm	51.1%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	361.1	lm	48.9%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	739	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source

Luminaire
Basic Luminous Shape
Item No.
Manufacturer

QuikBeam_OutputGain_Disabled_30D_4000K
SPOT

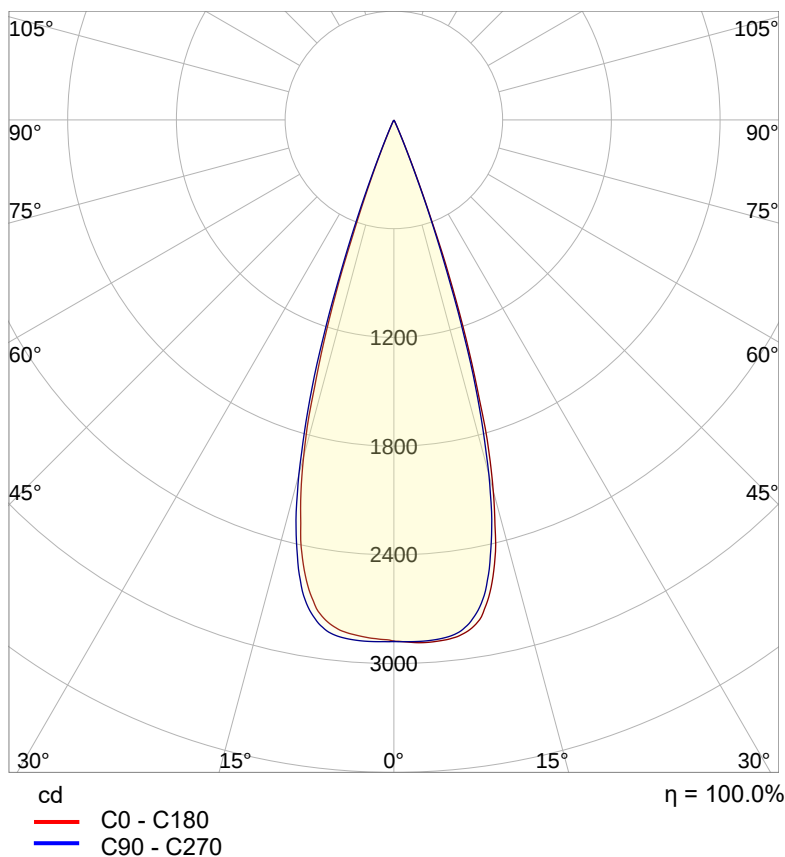
Astera

Main Light Measurement Results

Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

831 lm – 0% / 100%
n/a lm/W
2889 cd
4000 K
CRI 0.0

Polar light distribution diagram

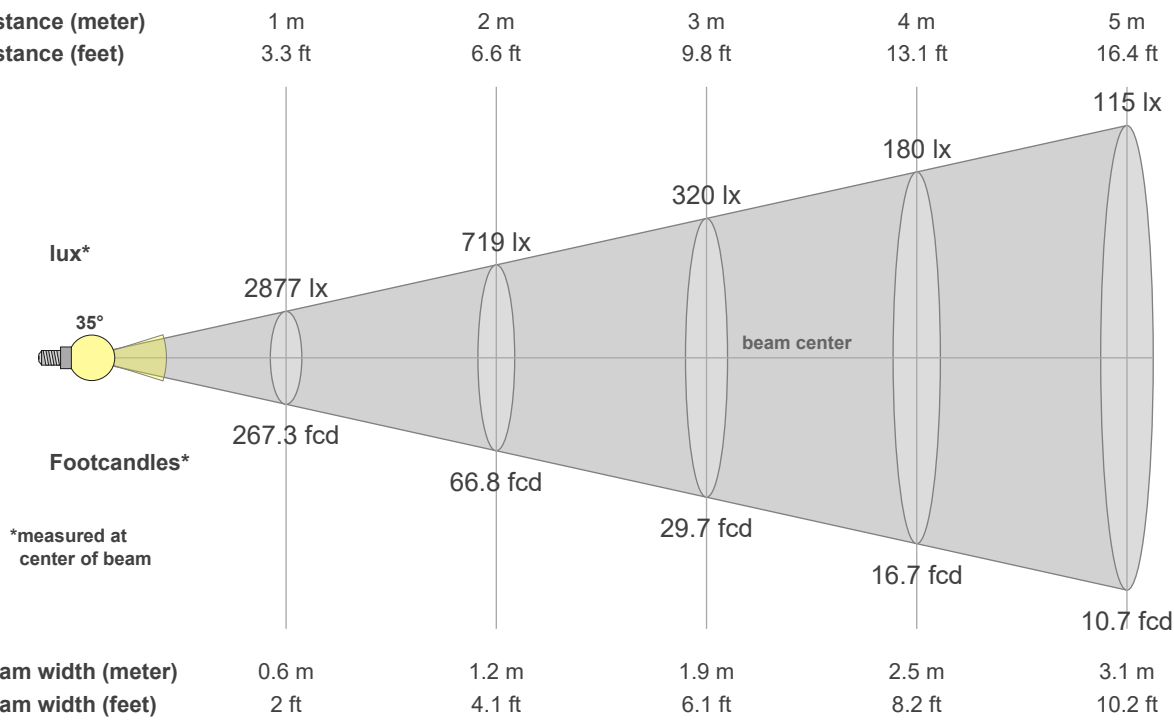


Test report

Light measurement results

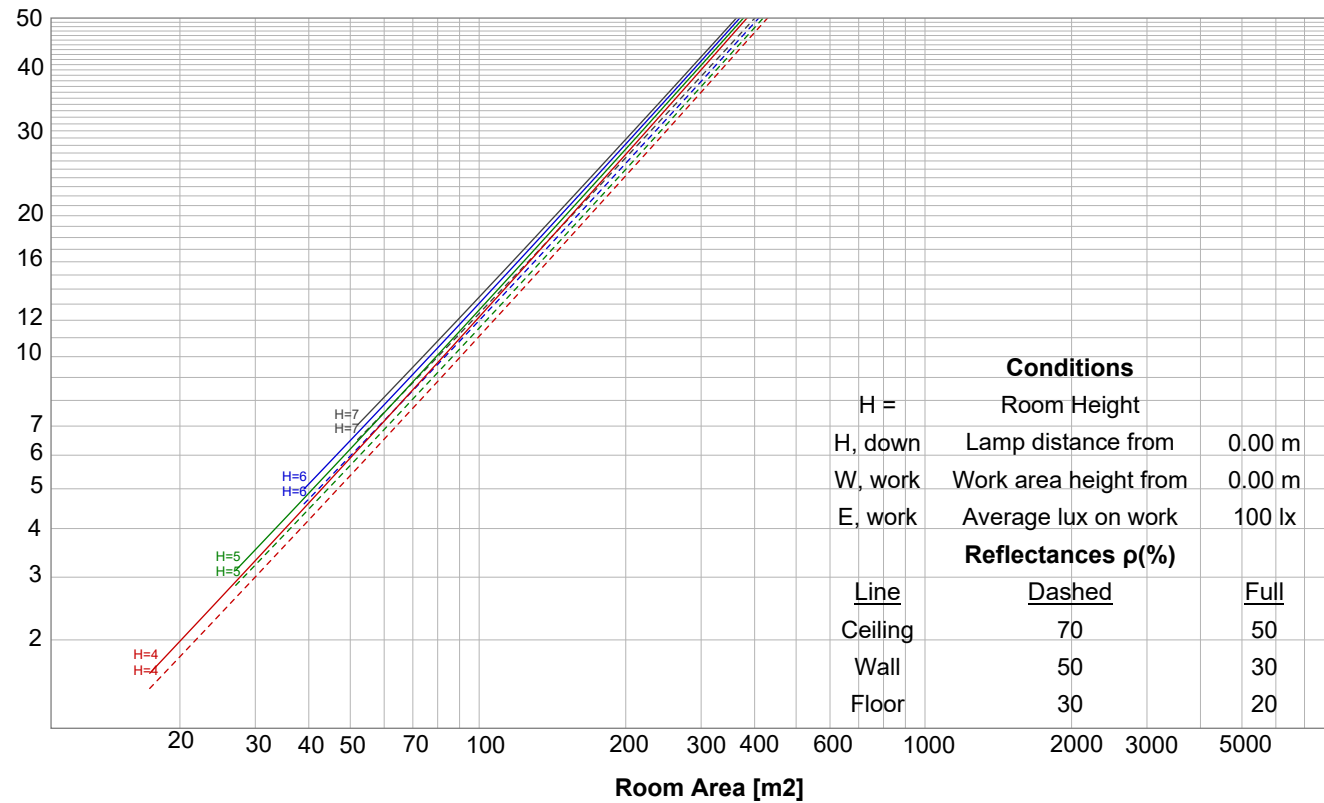
Print date 10/9/2025

Beam details

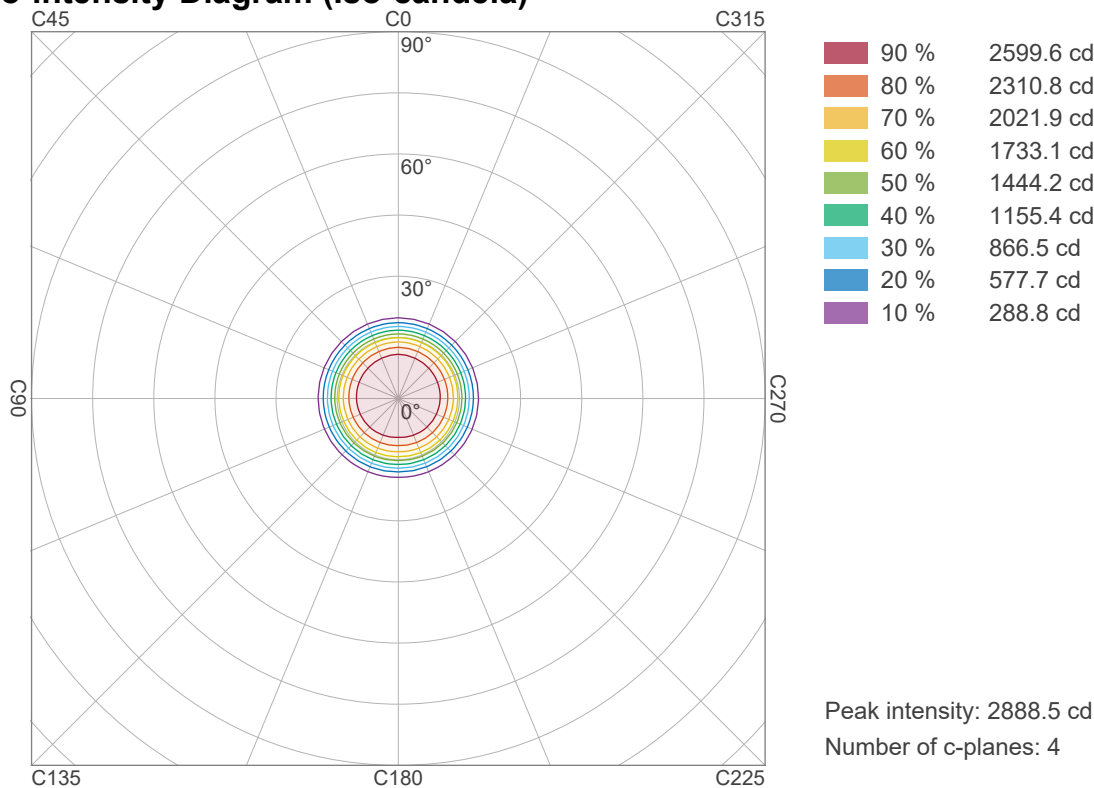


Luminaire budgetary diagram

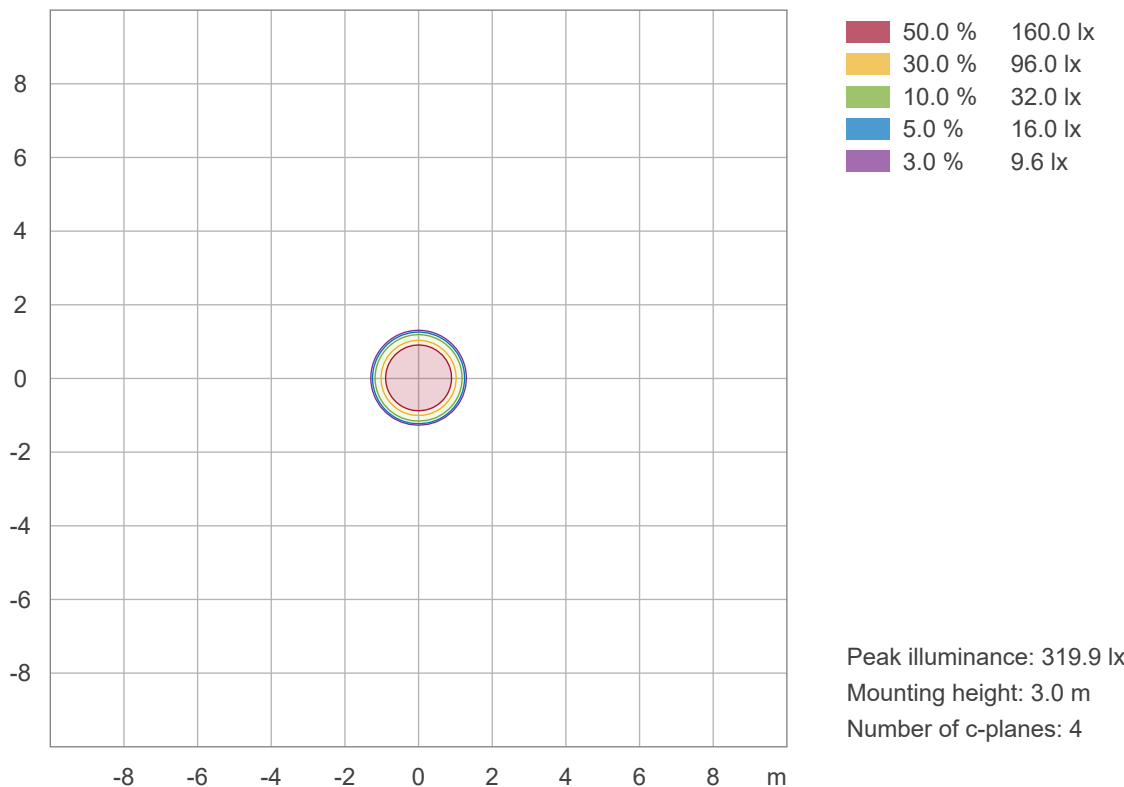
LAMPS (number of lamps)



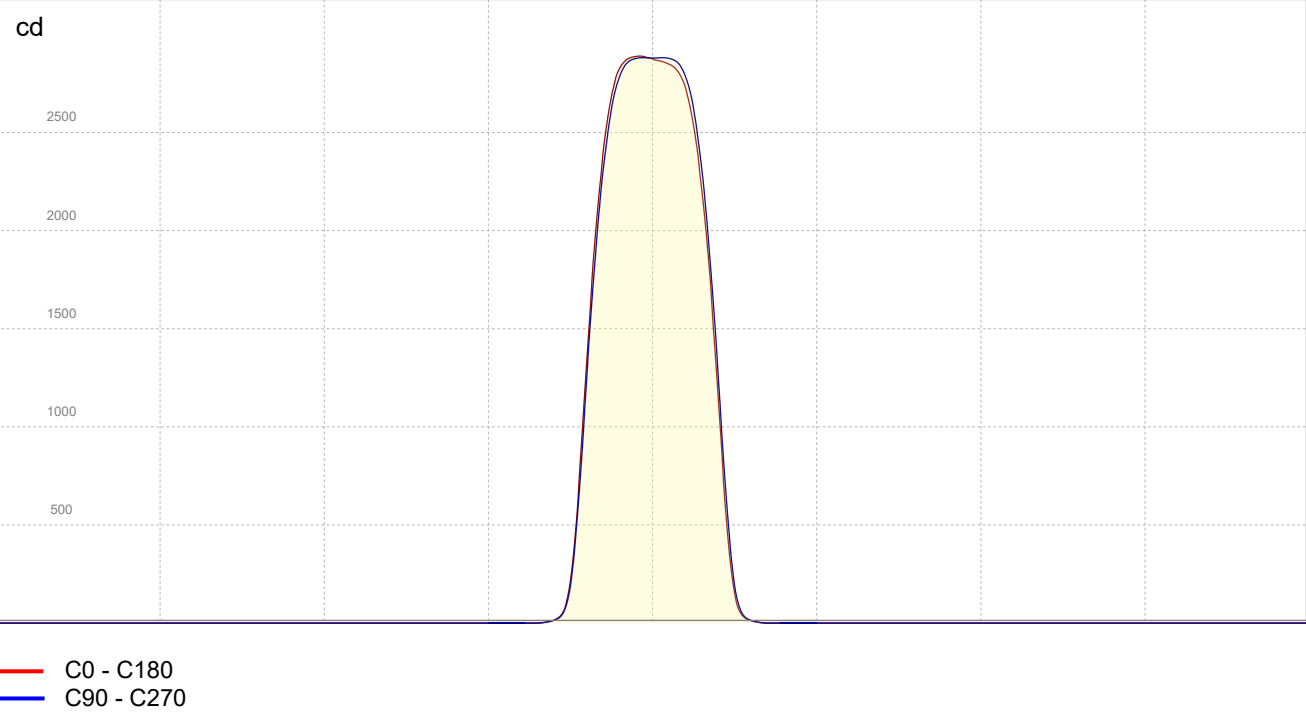
Iso-intensity Diagram (Iso-candela)



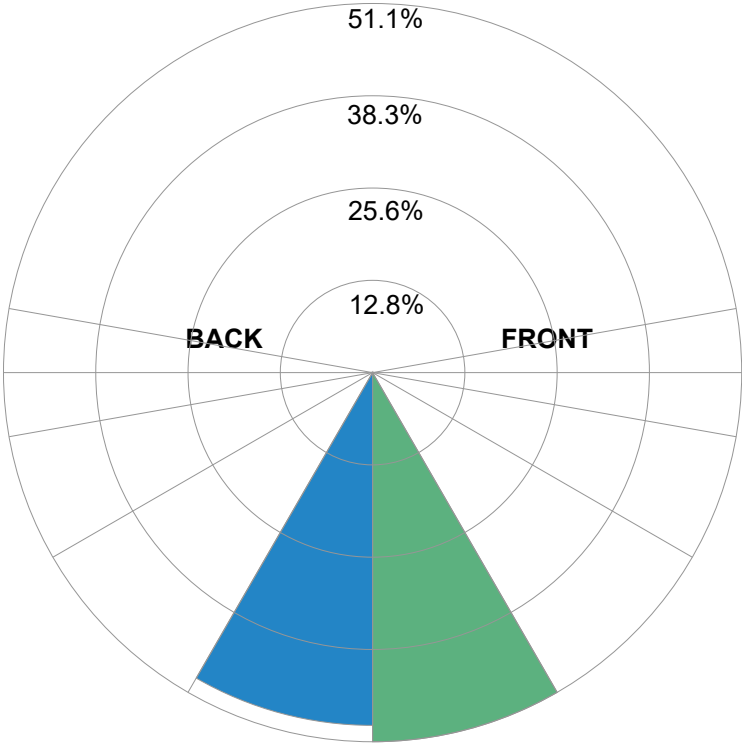
Iso-illuminance Diagram (Iso-lux)



Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires
BUG rating B1 U0 G0



Forward Light

Low (0-30°)	424.9	lm	51.1%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	406	lm	48.9%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	831	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

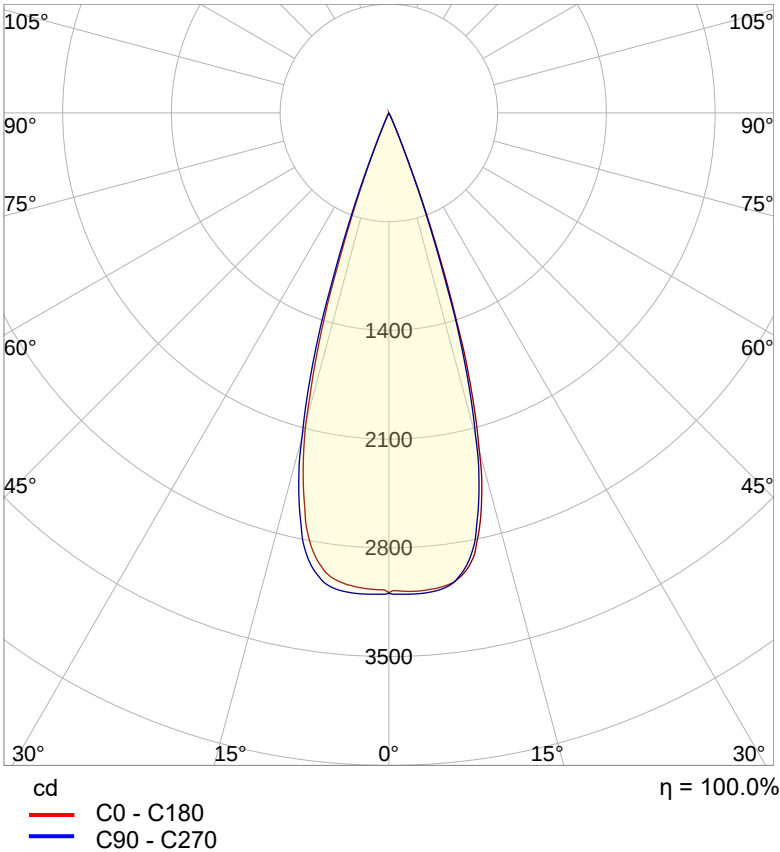
QuikBeam_OutputGain_Disabled_30D_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

889 lm – 0% / 100%
n/a lm/W
3101 cd
5500 K
CRI 0.0

Polar light distribution diagram

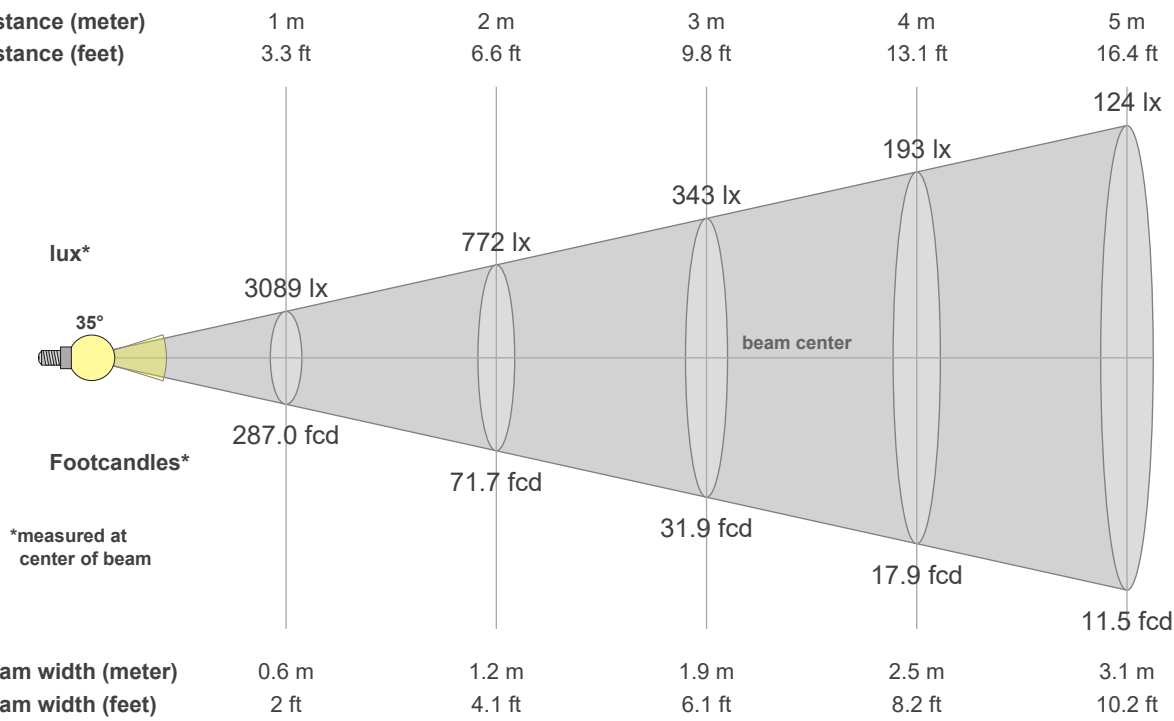


Test report

Light measurement results

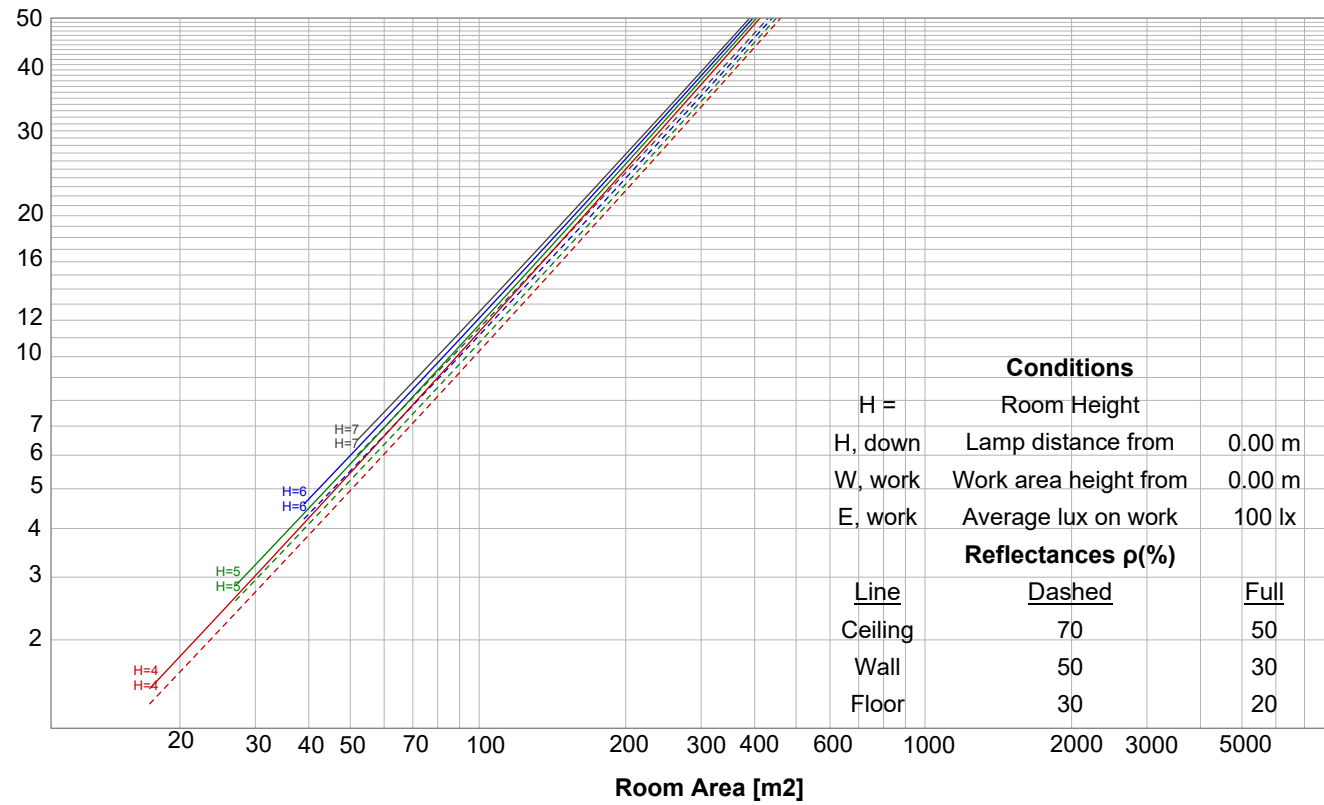
Print date 10/9/2025

Beam details

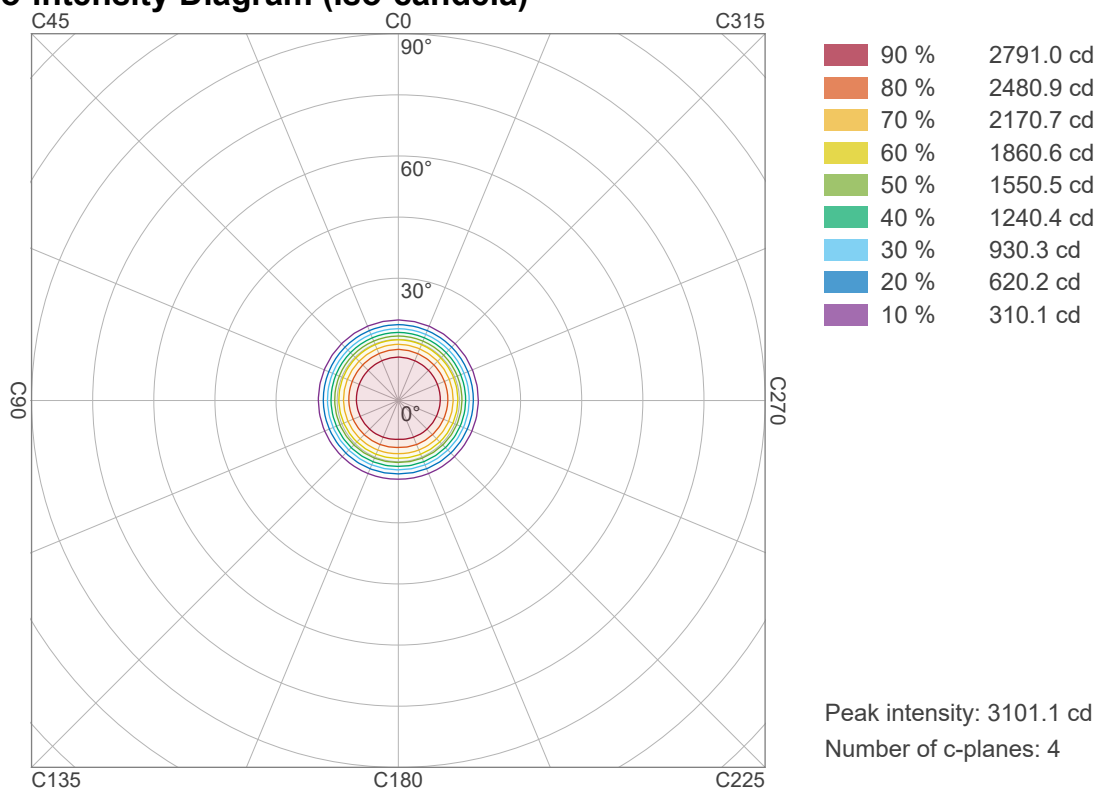


Luminaire budgetary diagram

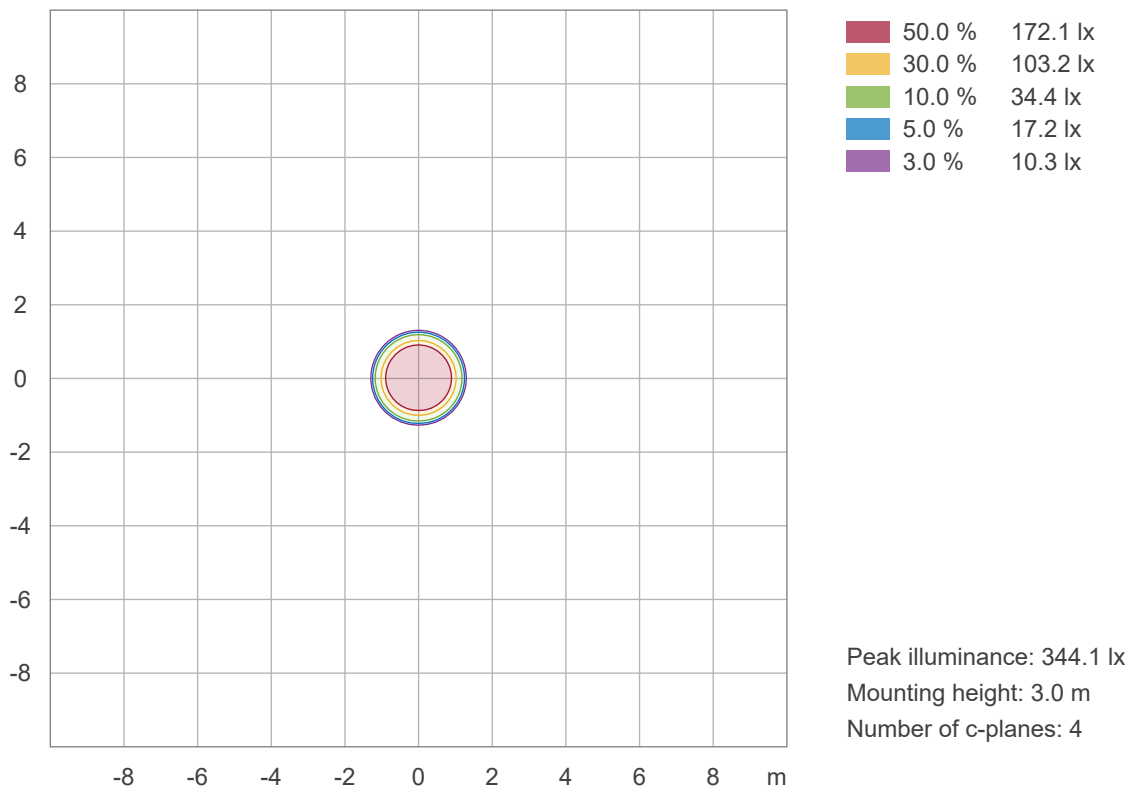
LAMPS (number of lamps)



Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

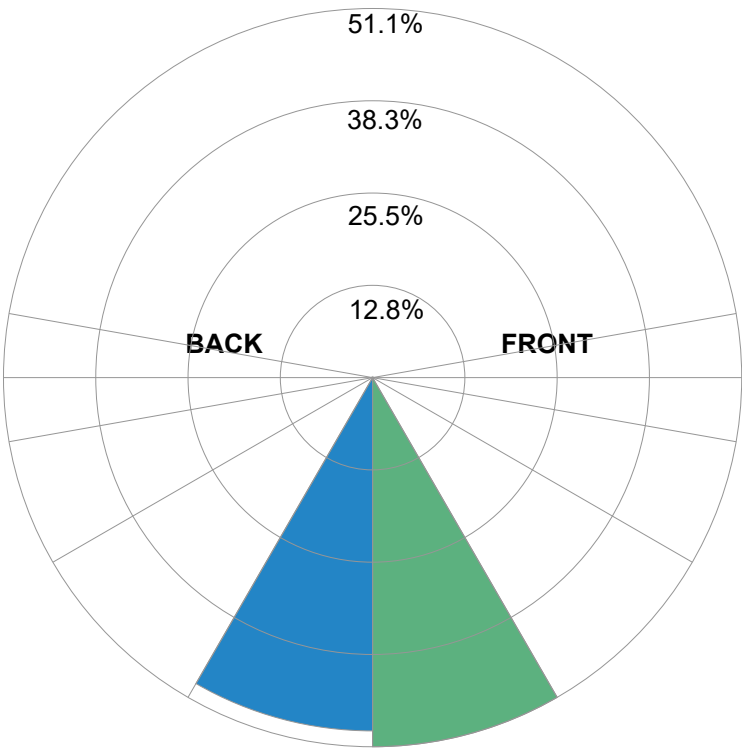


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	454.2	lm	51.1%
Medium (30-60°)	0.1	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	434.7	lm	48.9%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	889	lm	100%
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Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
361 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

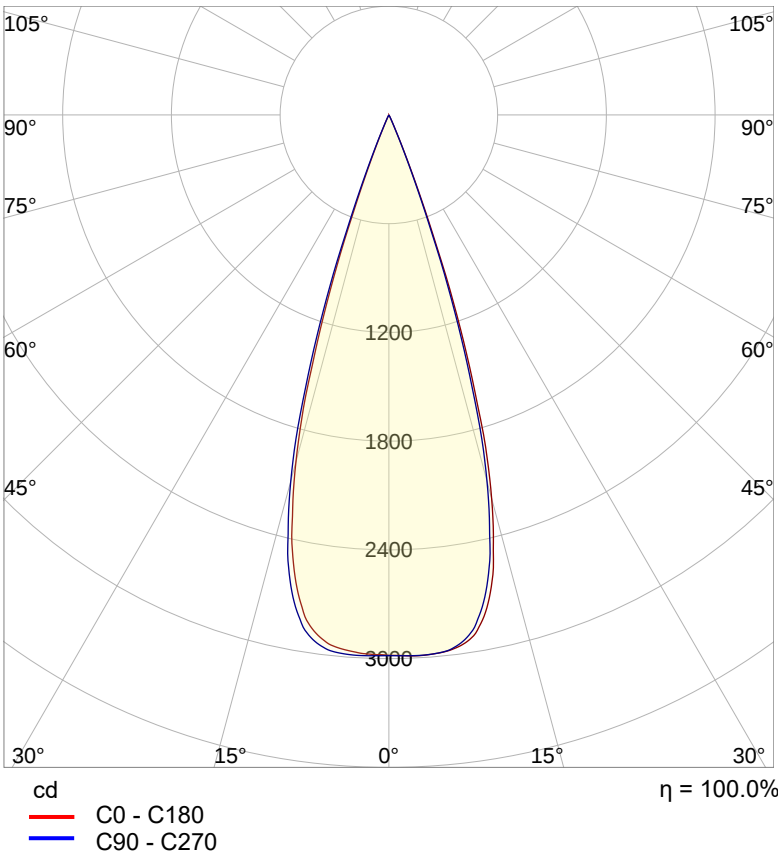
QuikBeam_OutputGain_Disabled_30D_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

858 lm – 0% / 100%
n/a lm/W
2988 cd
6500 K
CRI 0.0

Polar light distribution diagram

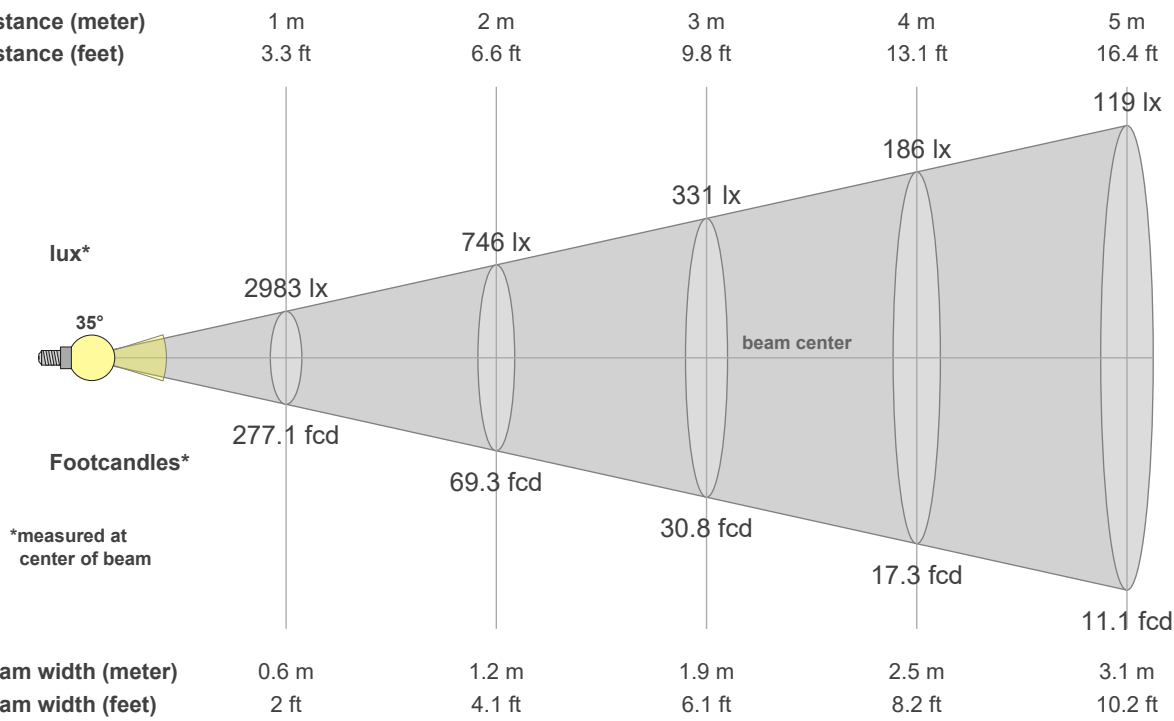


Test report

Light measurement results

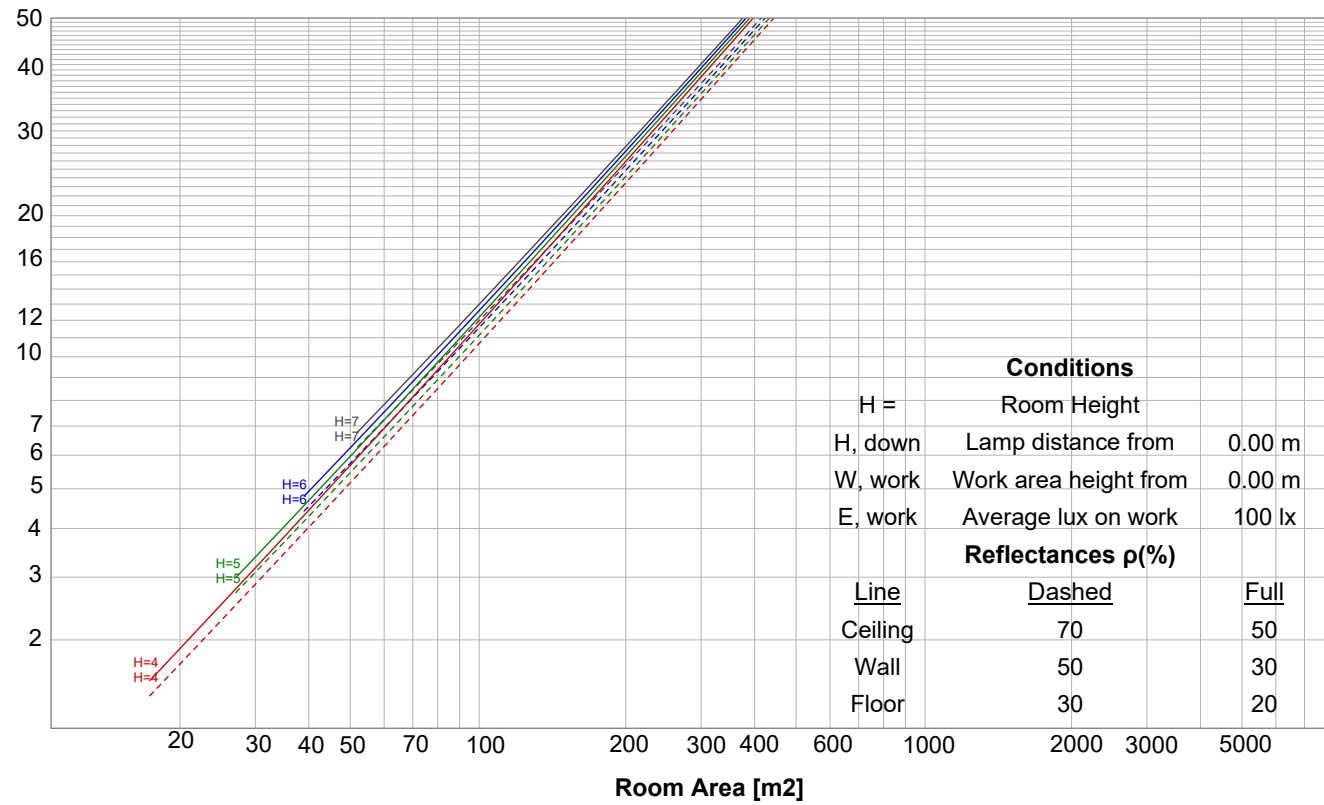
Print date 10/9/2025

Beam details

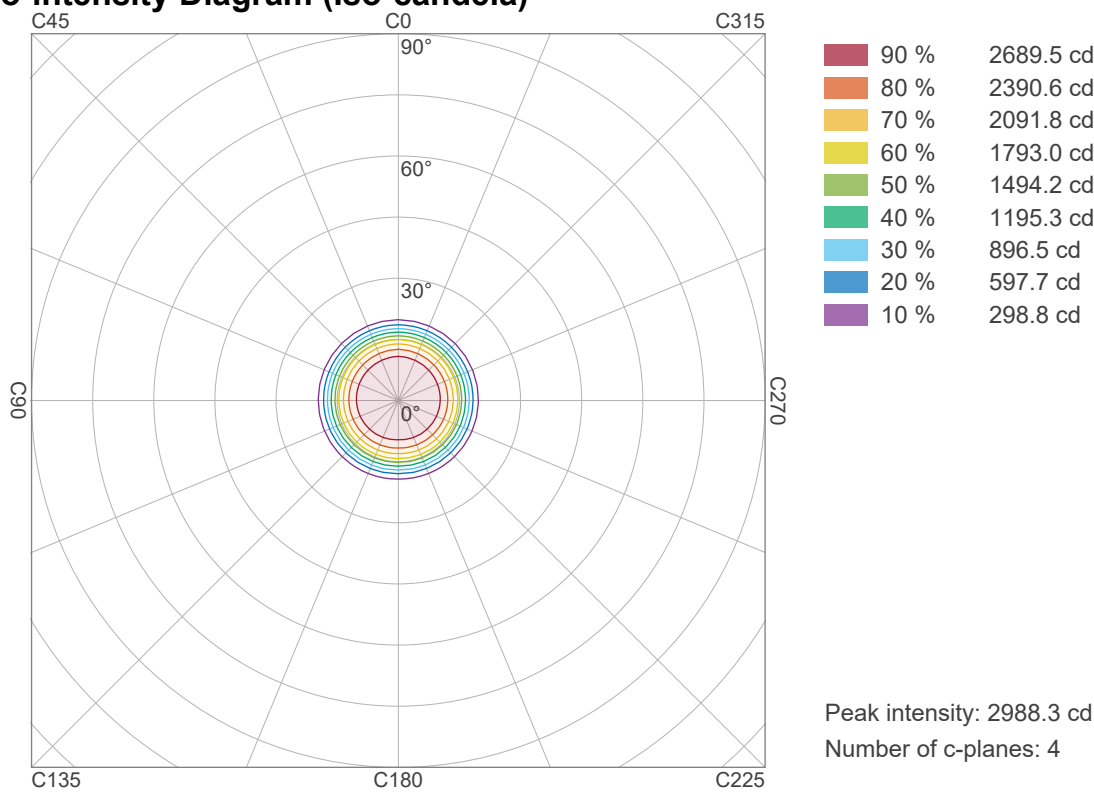


Luminaire budgetary diagram

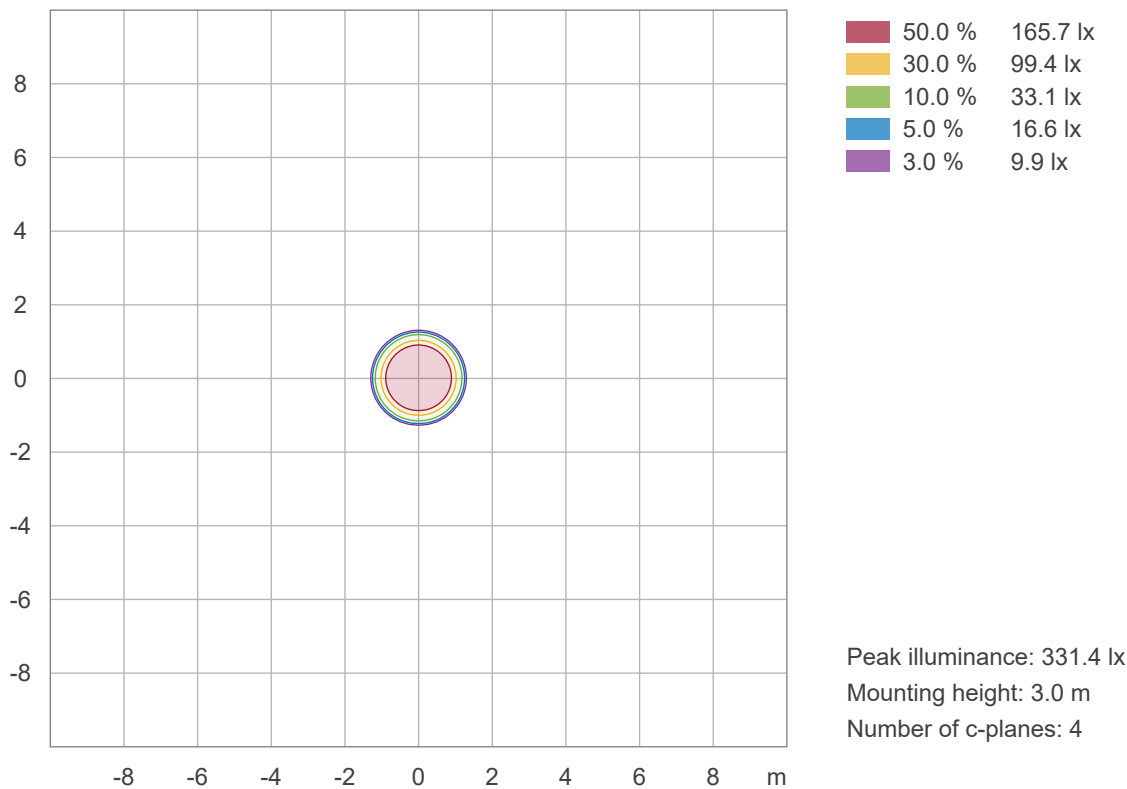
LAMPS (number of lamps)



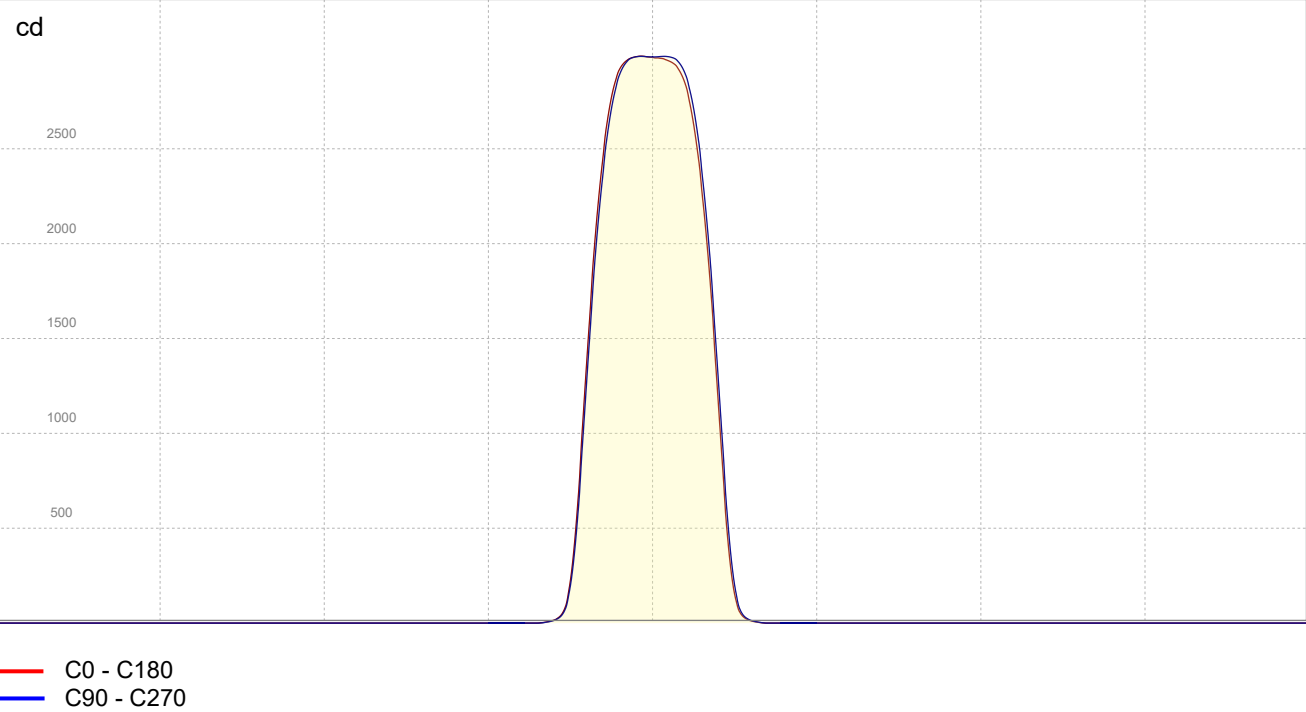
Iso-intensity Diagram (Iso-candela)



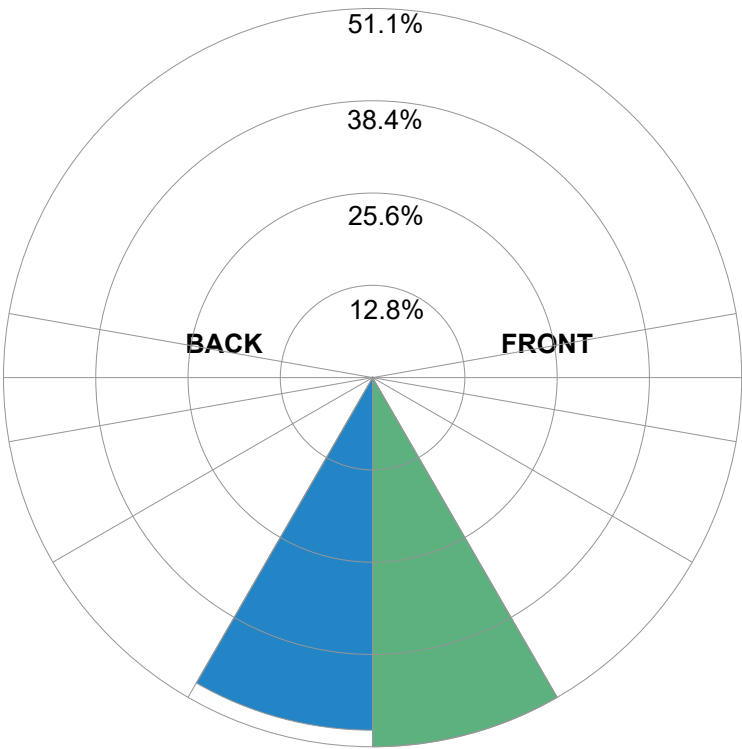
Iso-illuminance Diagram (Iso-lux)



Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires
BUG rating B1 U0 G0



Forward Light

Low (0-30°)	438.9	lm	51.1%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	419.2	lm	48.8%
Medium (30-60°)	0	lm	0%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	858	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

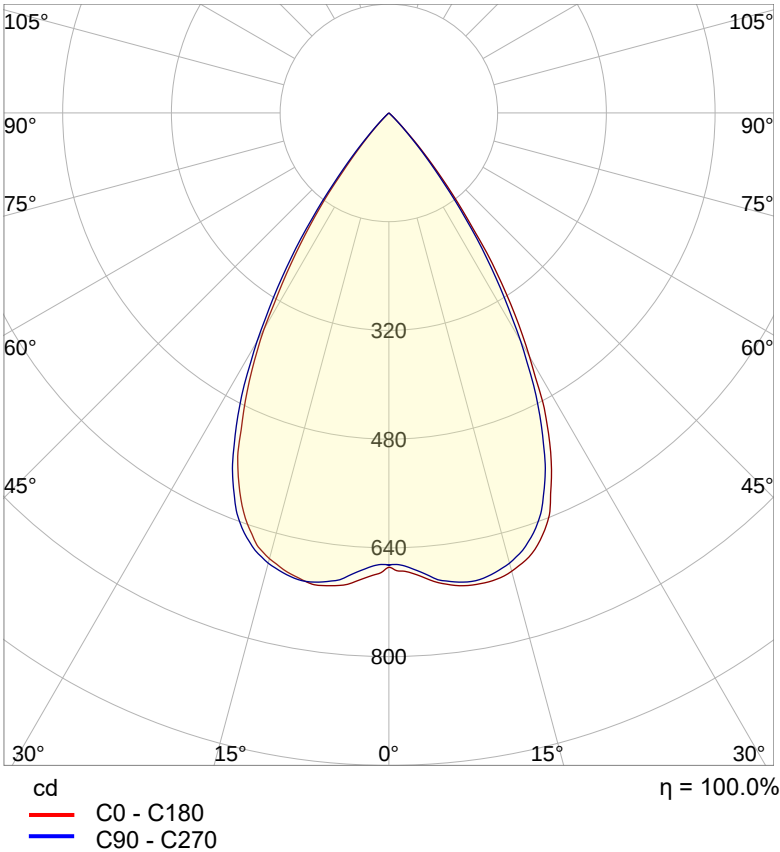
QuikBeam_OutputGain_Disabled_60D_2700K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

658 lm – 0% / 100%
n/a lm/W
706 cd
2700 K
CRI 0.0

Polar light distribution diagram

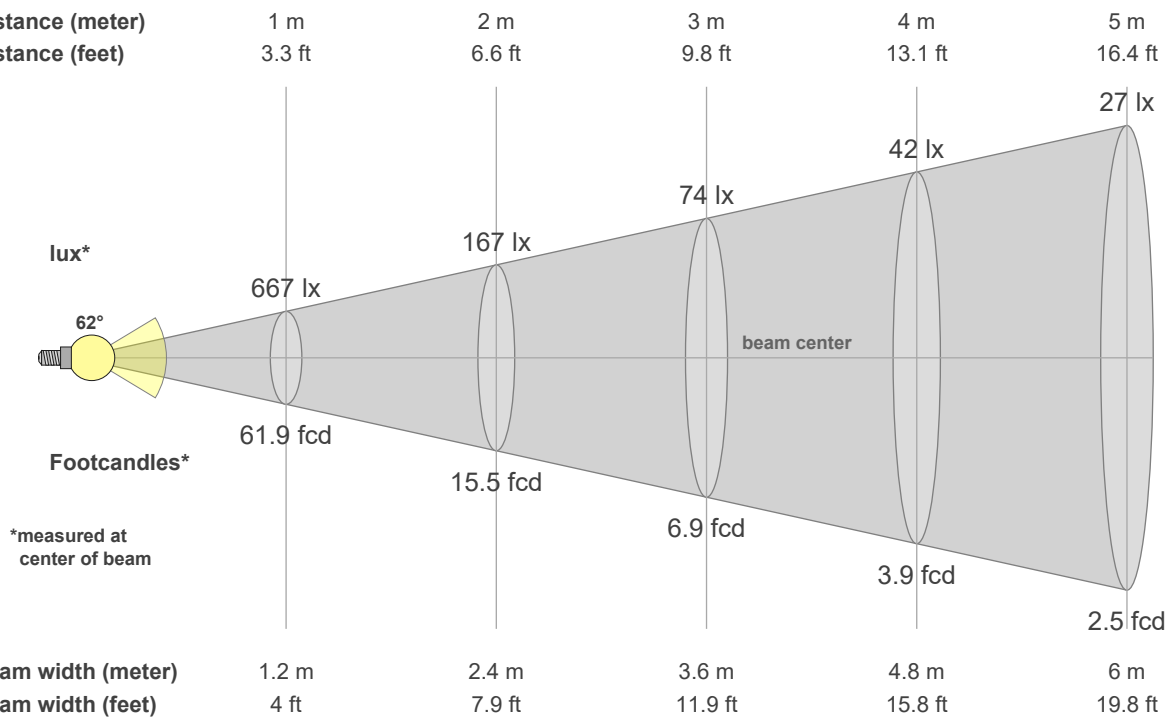


Test report

Light measurement results

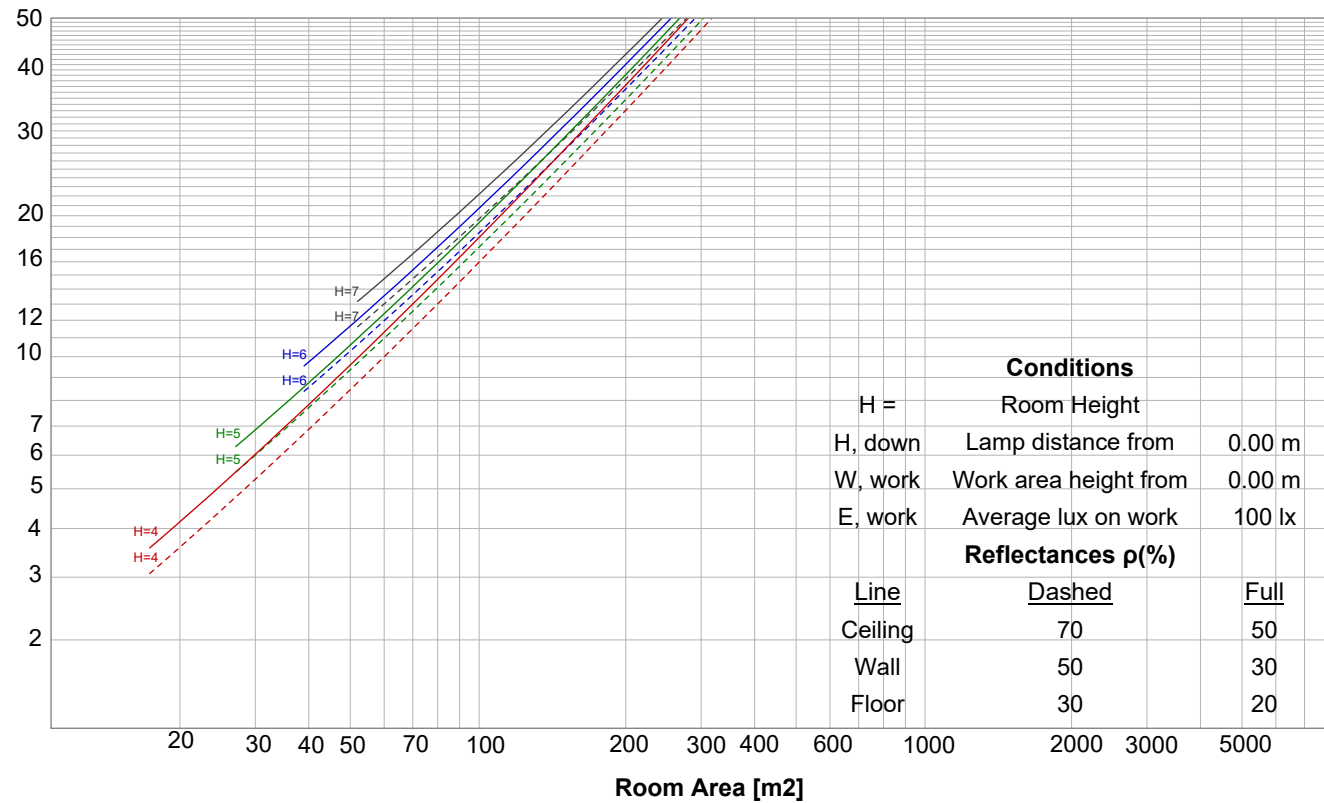
Print date 10/9/2025

Beam details

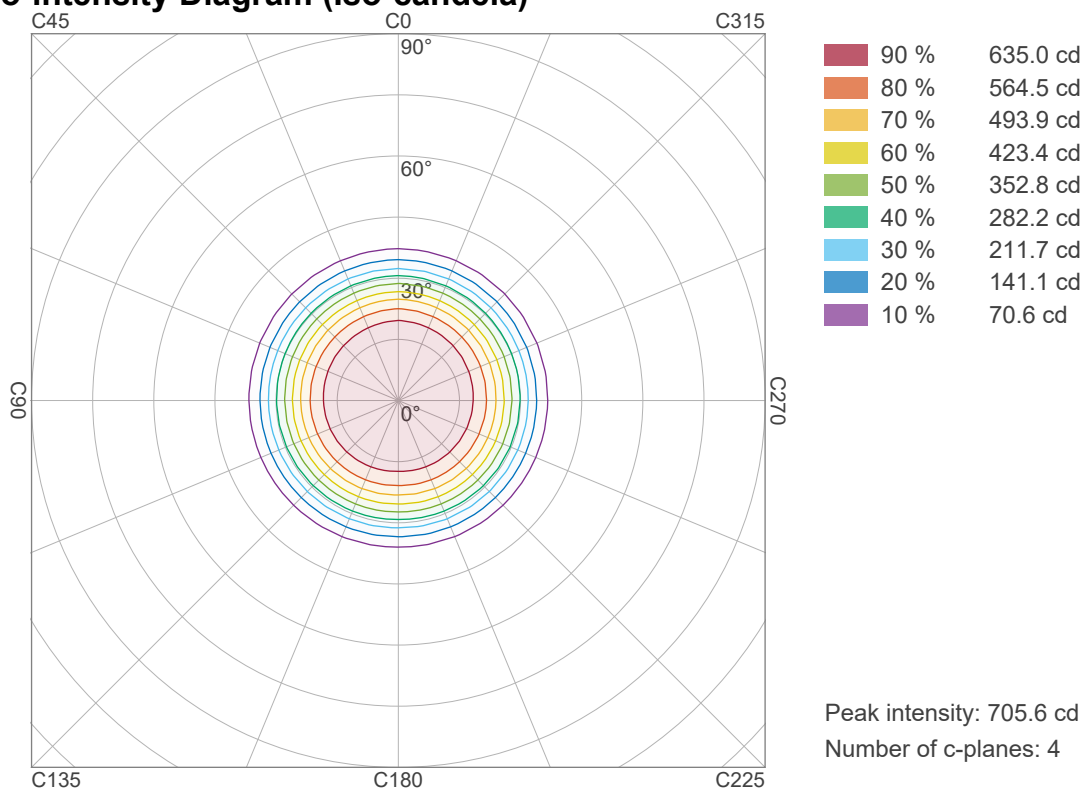


Luminaire budgetary diagram

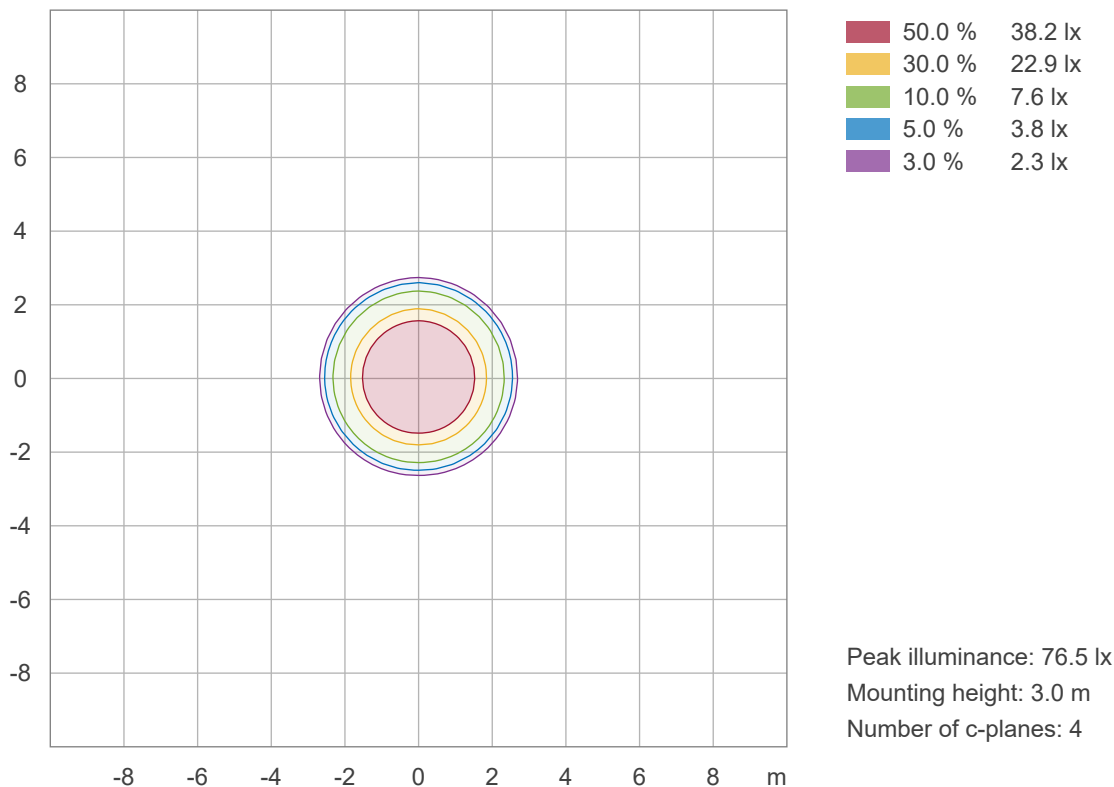
LAMPS (number of lamps)



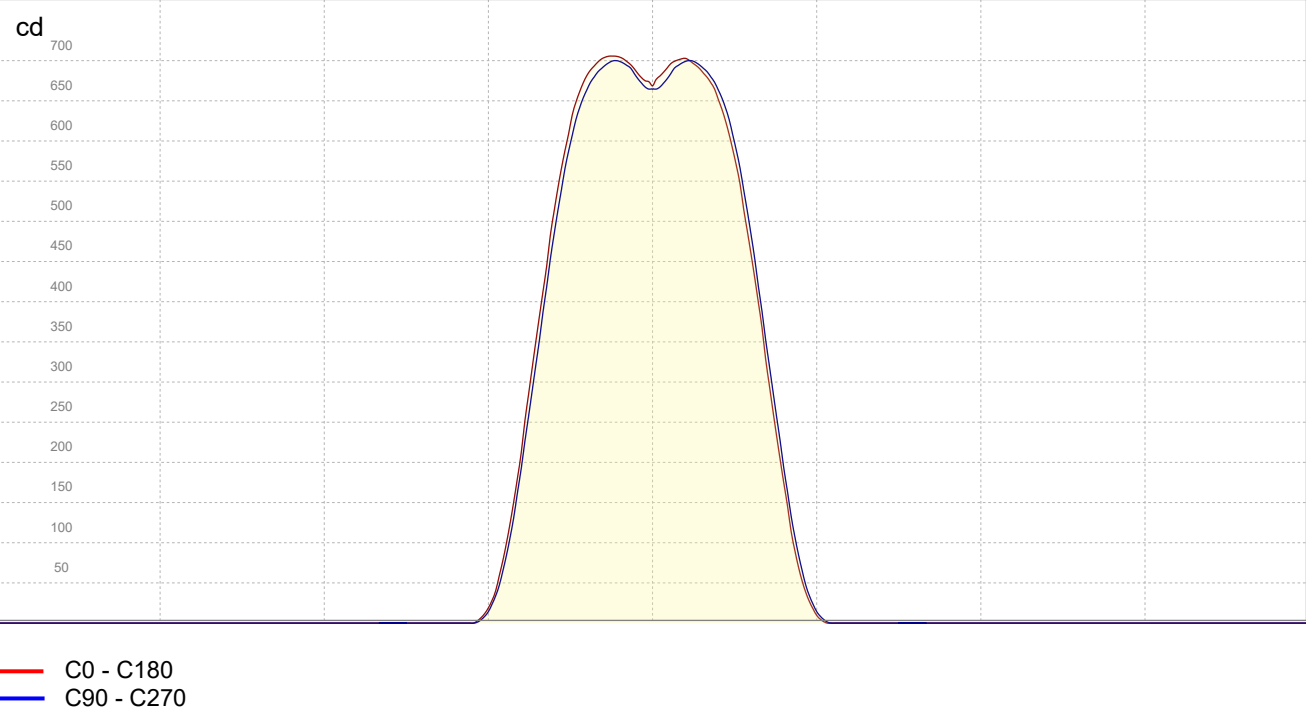
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

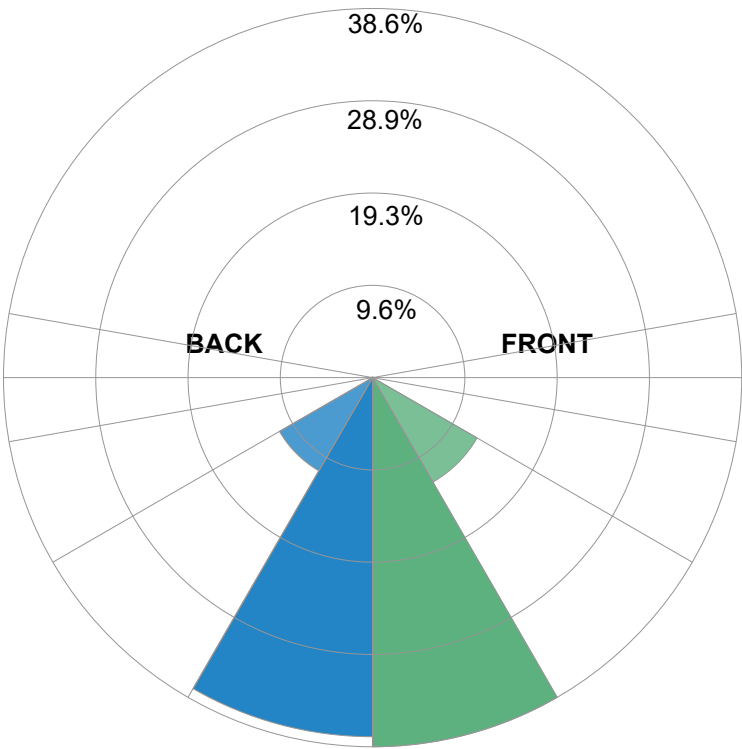


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	254	lm	38.6%
Medium (30-60°)	83	lm	12.6%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	247.1	lm	37.5%
Medium (30-60°)	74	lm	11.2%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	658	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

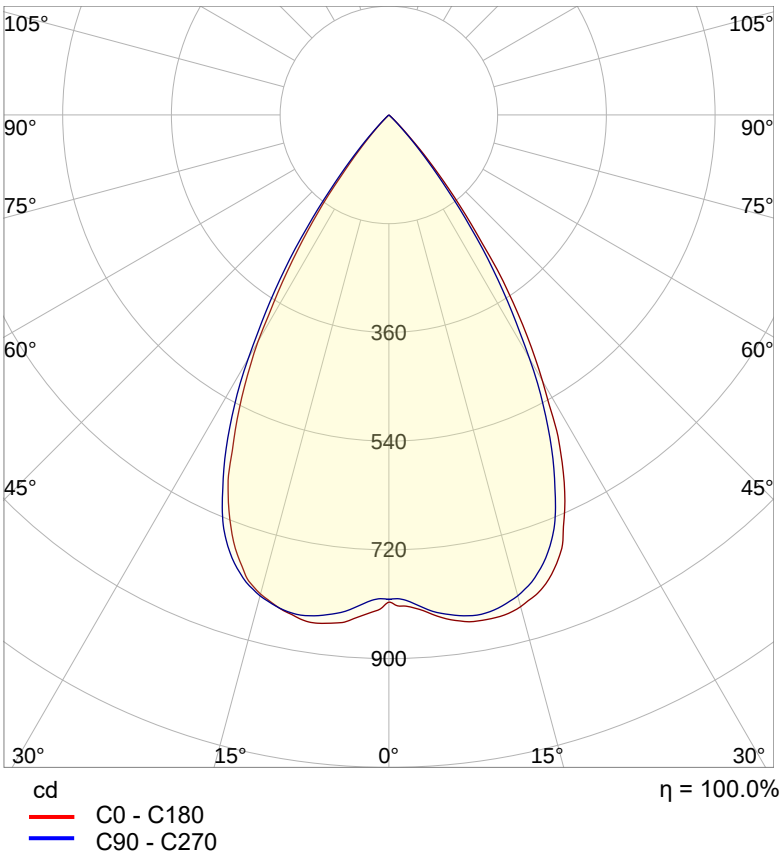
QuikBeam_OutputGain_Disabled_60D_3200K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

792 lm – 0% / 100%
n/a lm/W
851 cd
3200 K
CRI 0.0

Polar light distribution diagram

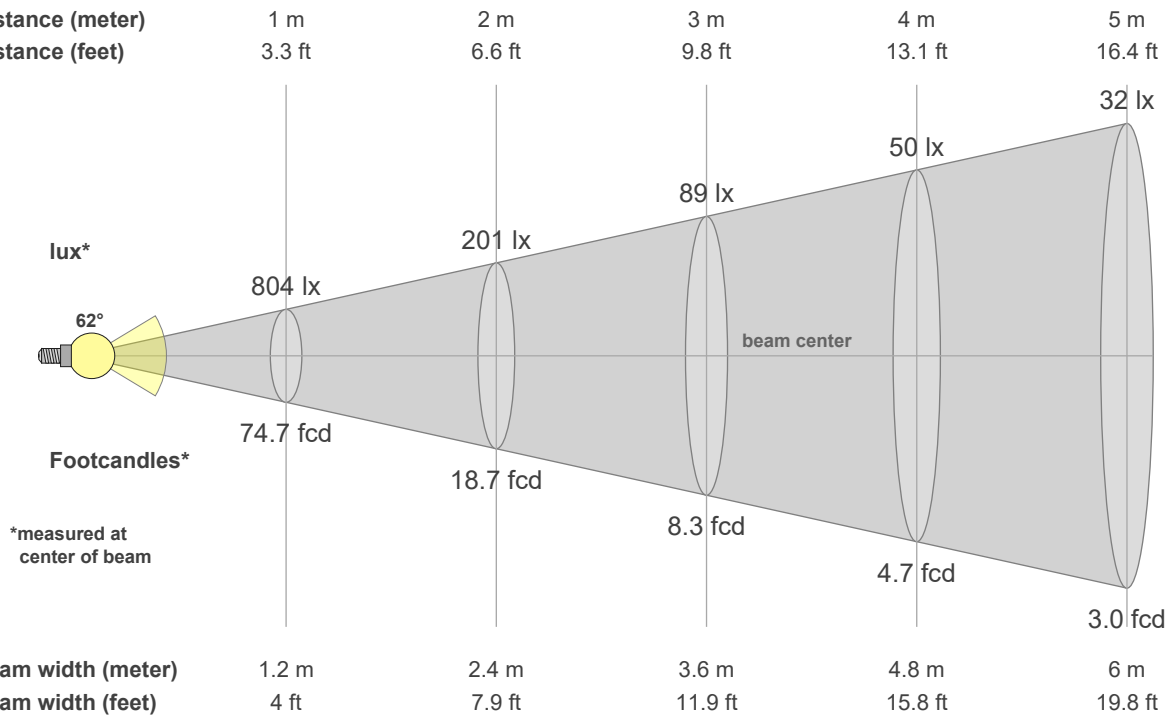


Test report

Light measurement results

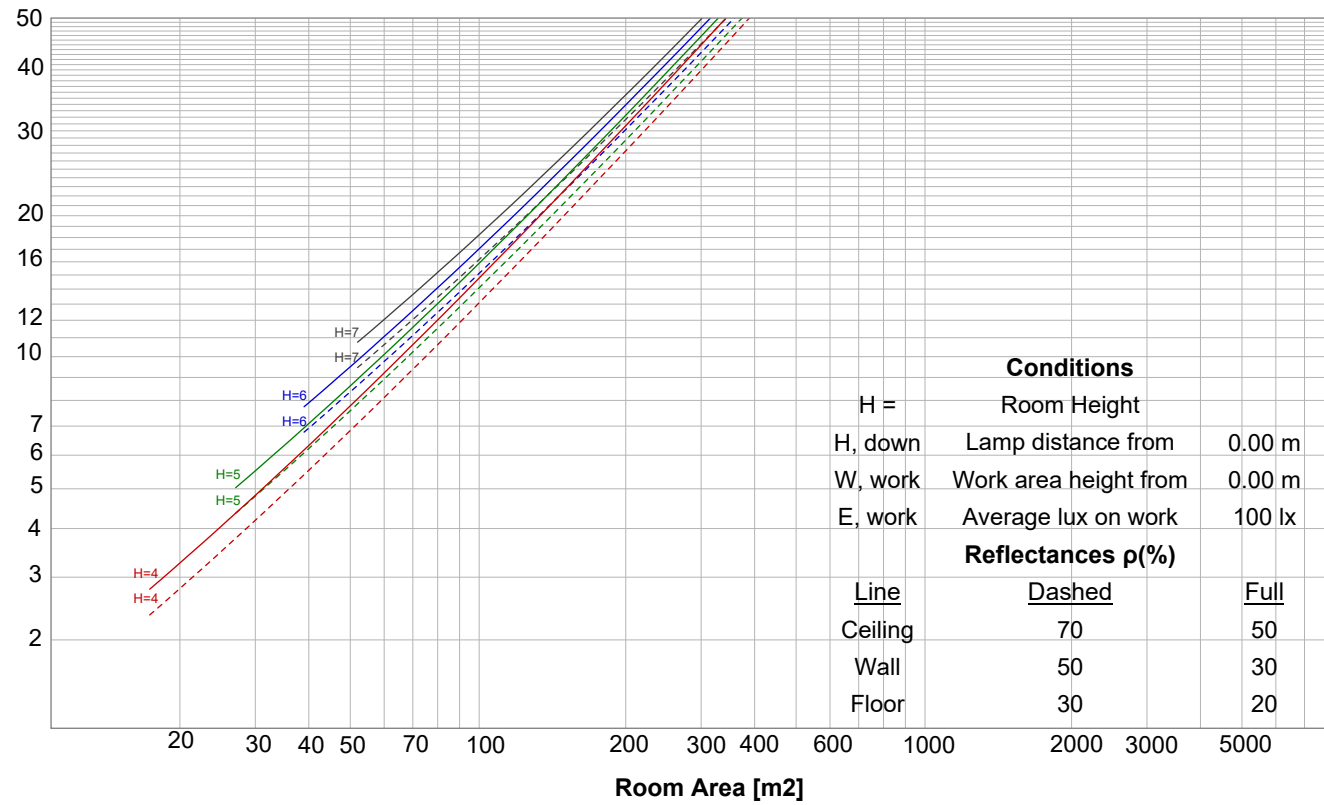
Print date 10/9/2025

Beam details

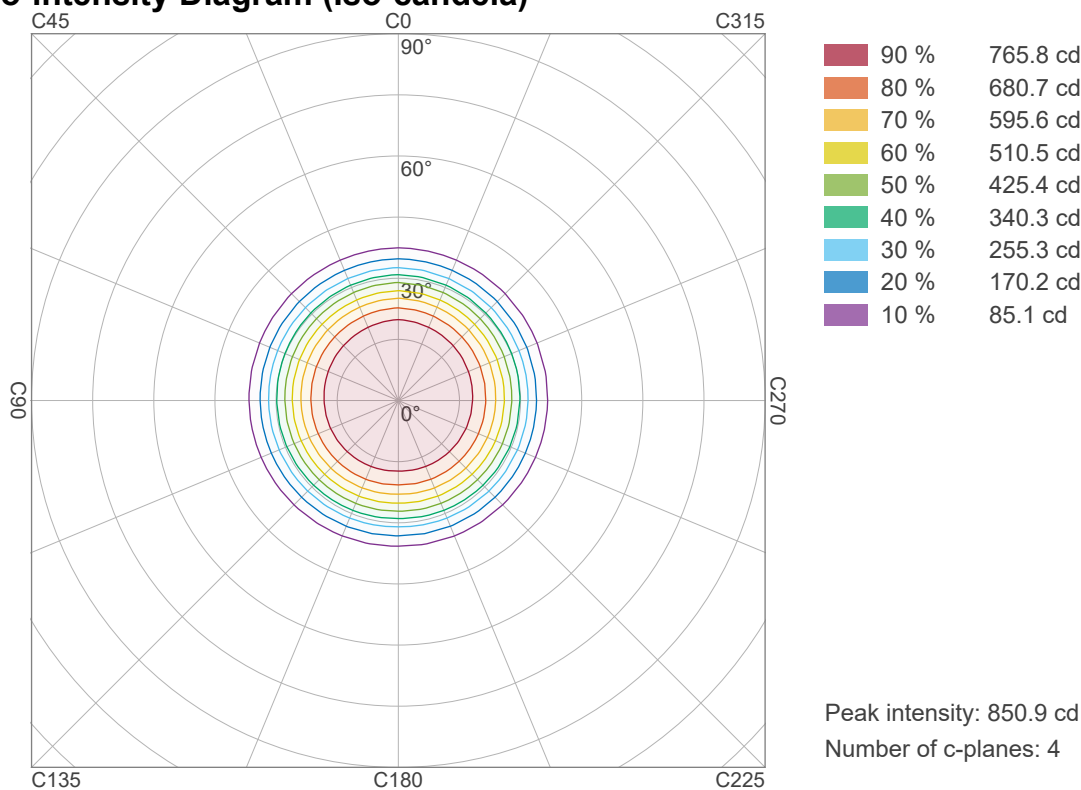


Luminaire budgetary diagram

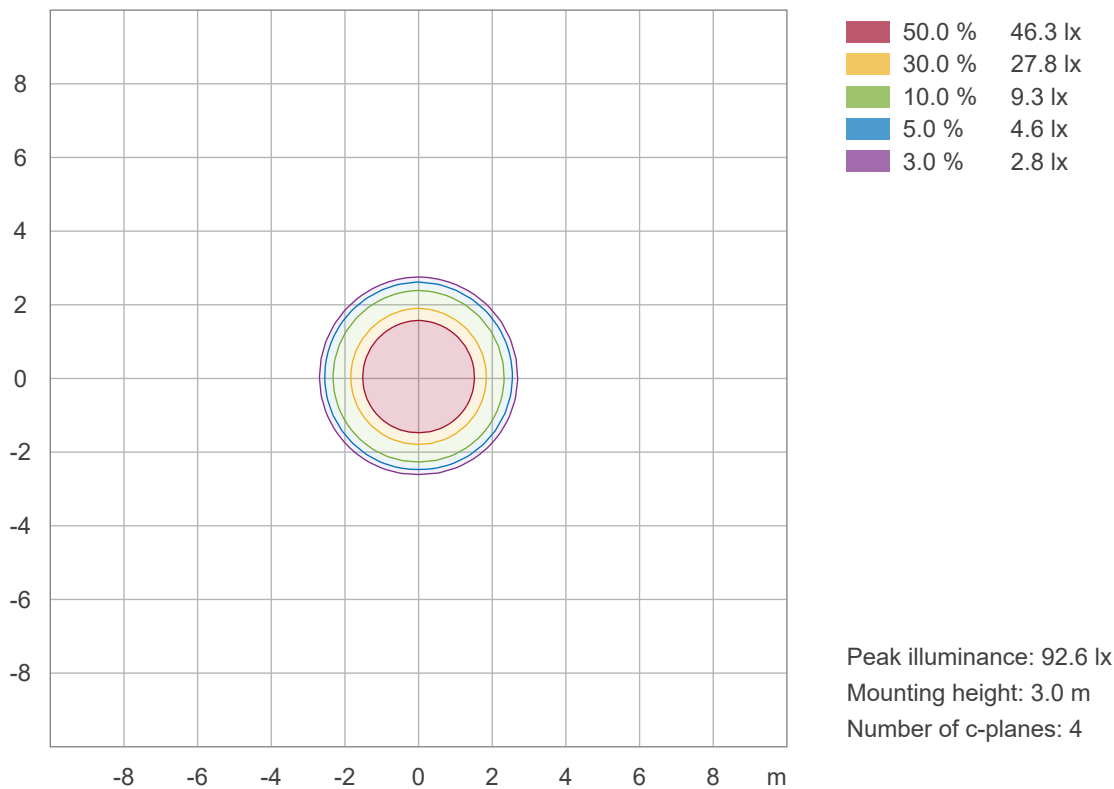
LAMPS (number of lamps)



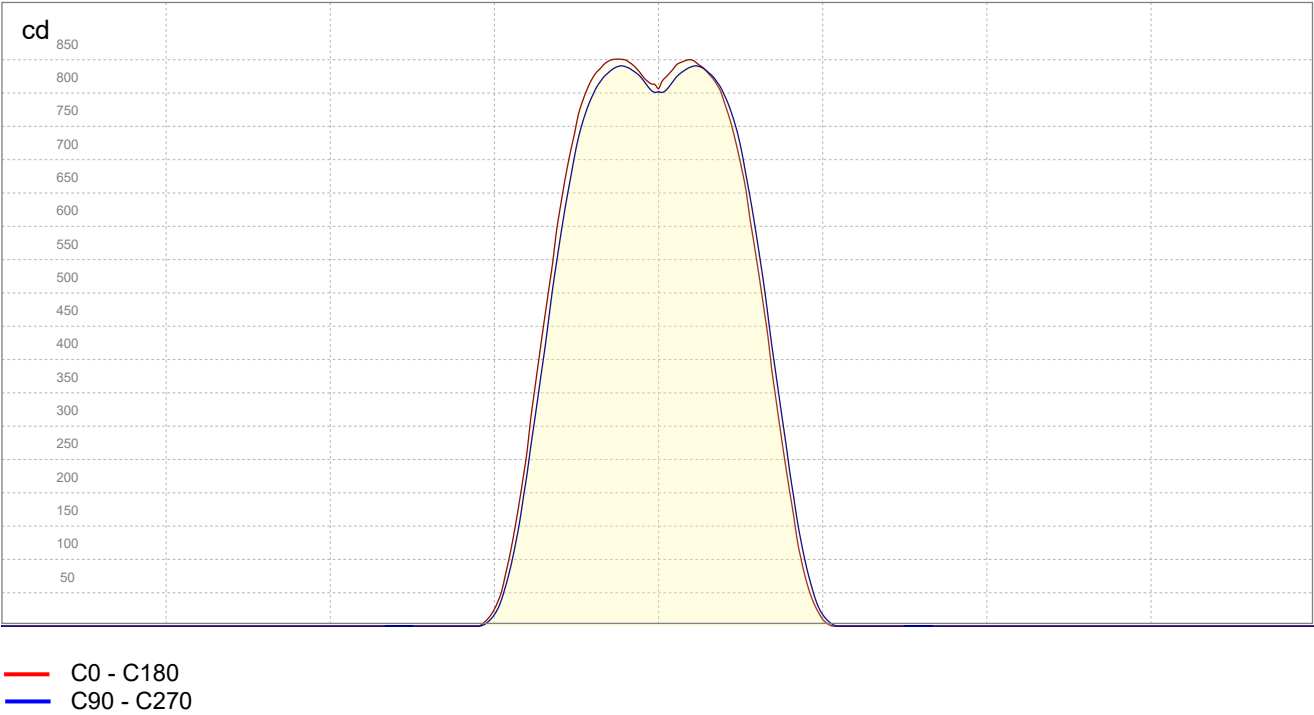
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

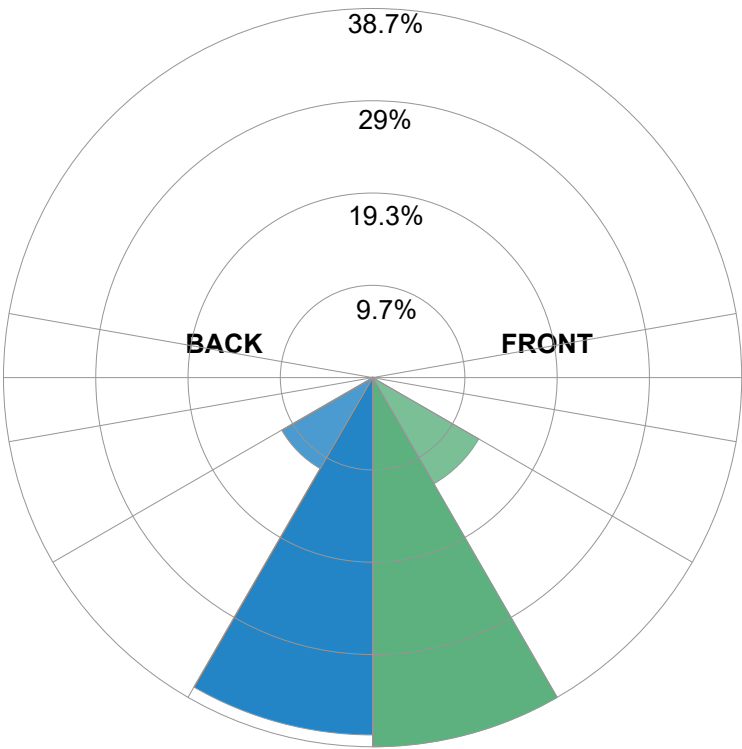


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	306.6	lm	38.7%
Medium (30-60°)	101.8	lm	12.8%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	296.8	lm	37.5%
Medium (30-60°)	87.2	lm	11%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	792	lm	100%
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Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

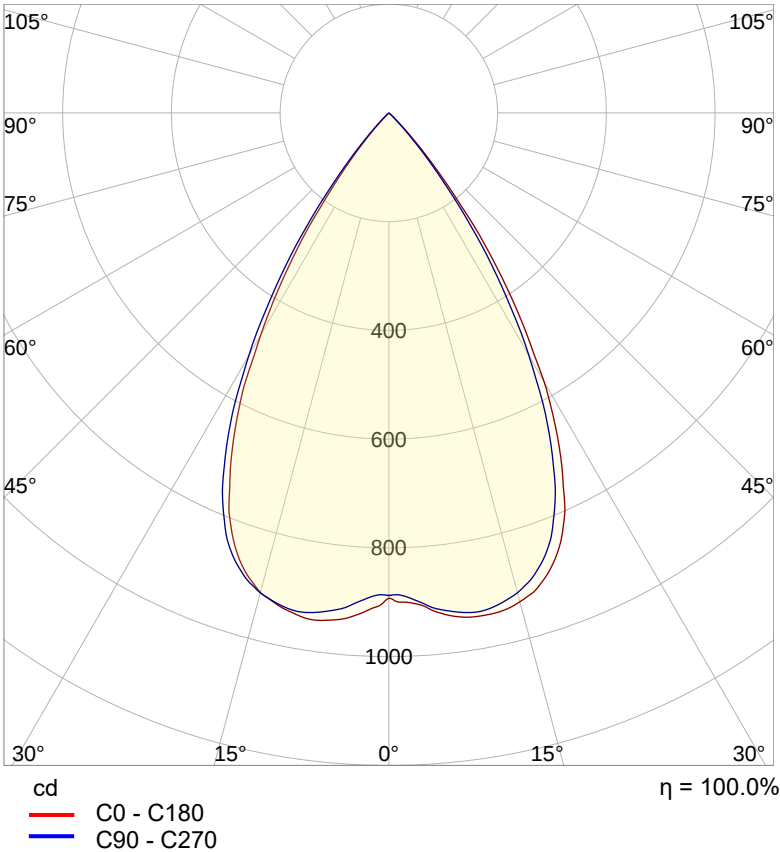
QuikBeam_OutputGain_Disabled_60D_4000K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

877 lm – 0% / 100%
n/a lm/W
943 cd
4000 K
CRI 0.0

Polar light distribution diagram

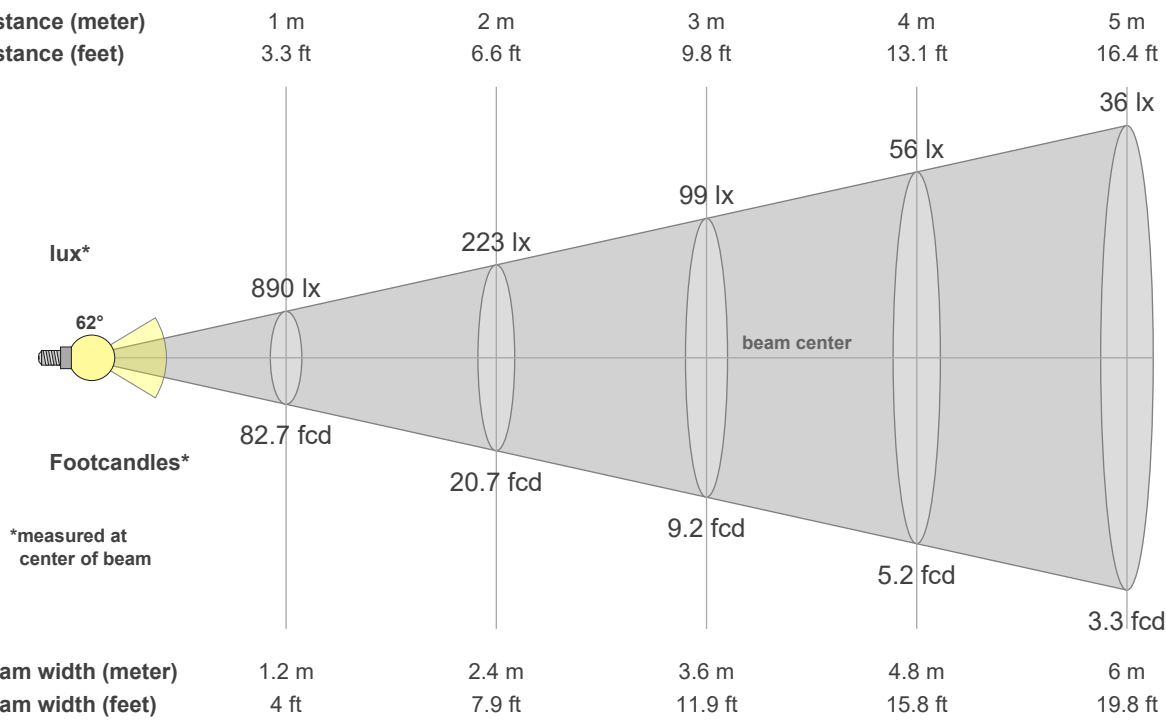


Test report

Light measurement results

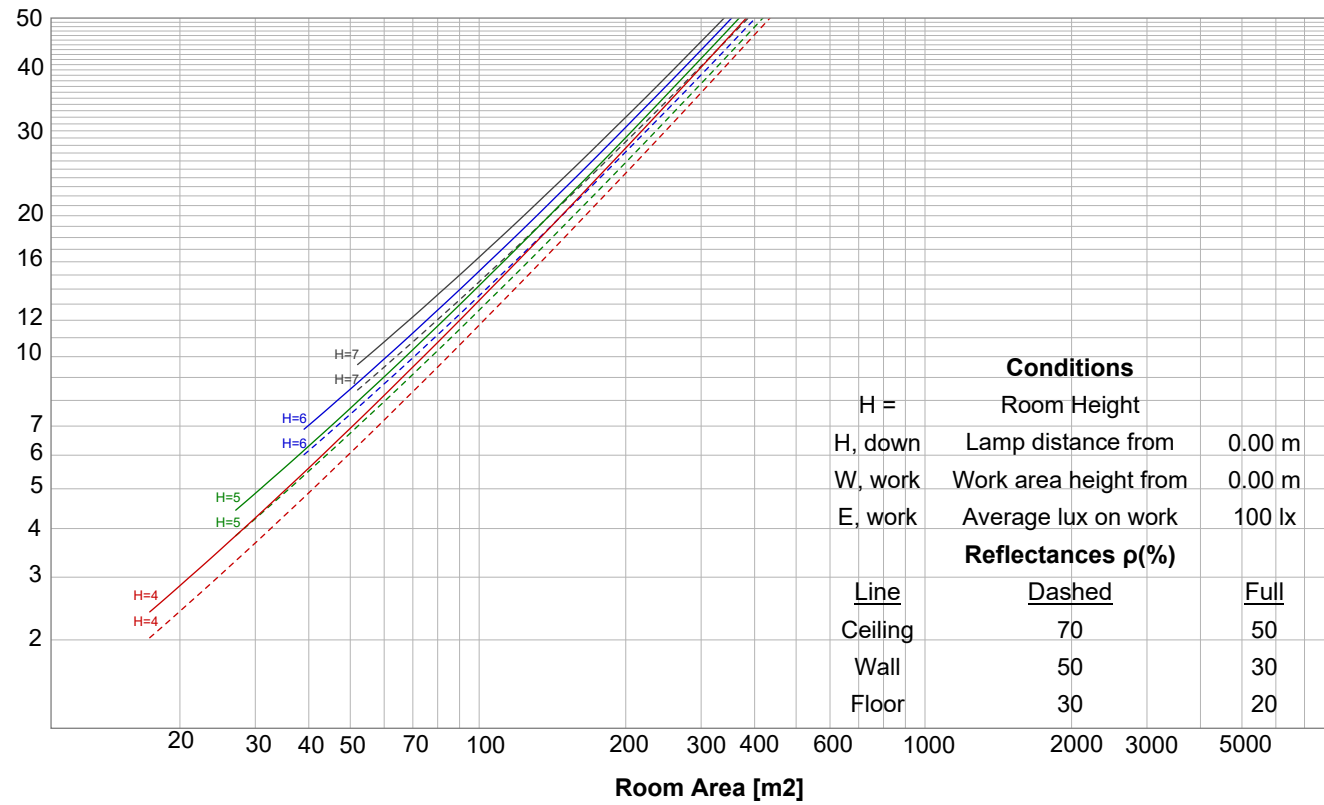
Print date 10/9/2025

Beam details

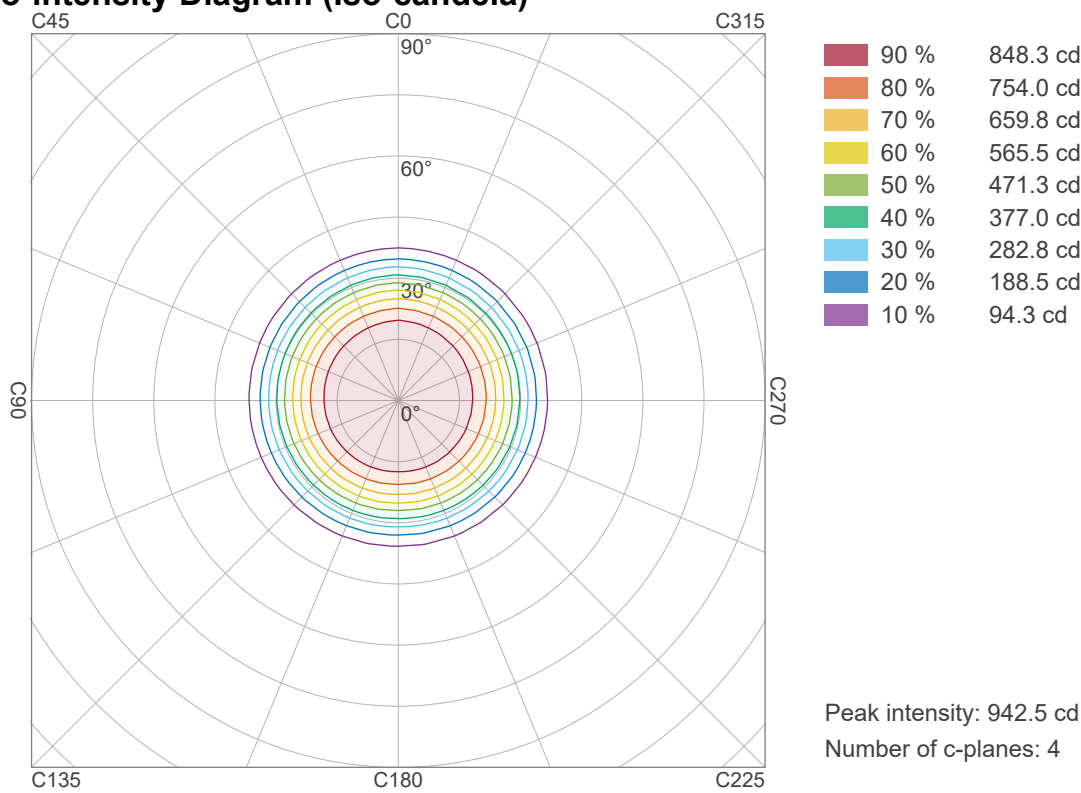


Luminaire budgetary diagram

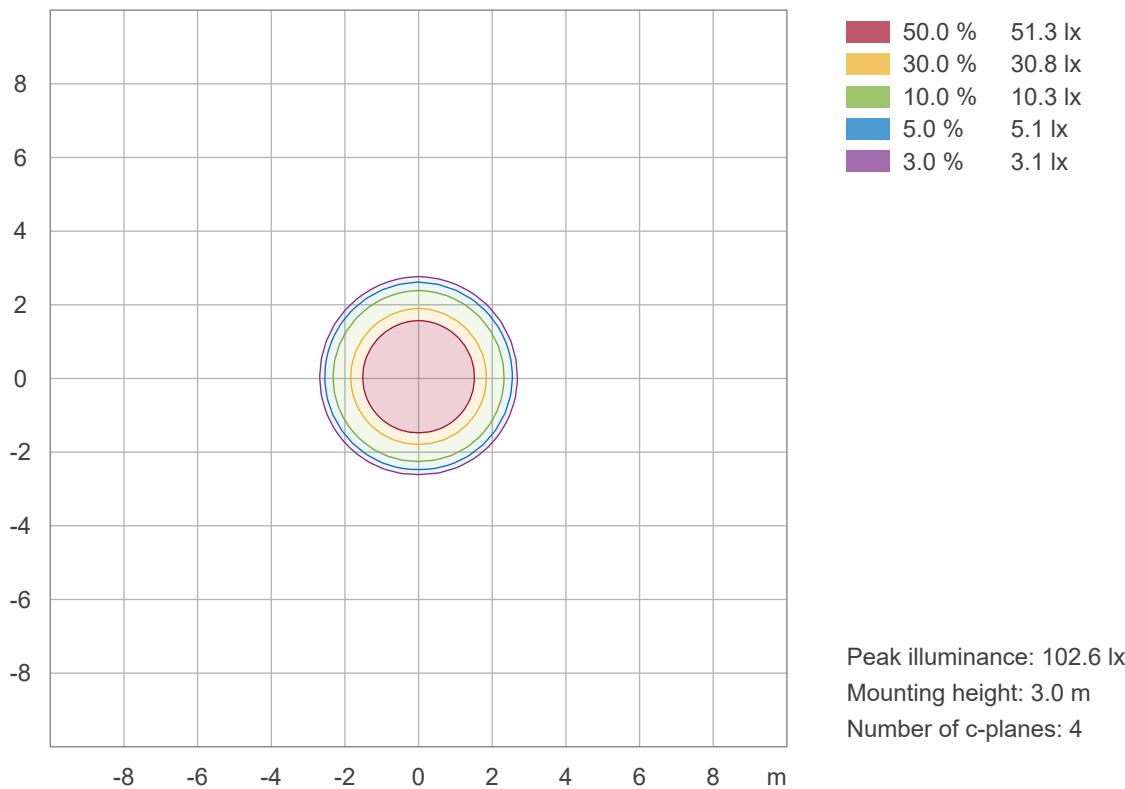
LAMPS (number of lamps)



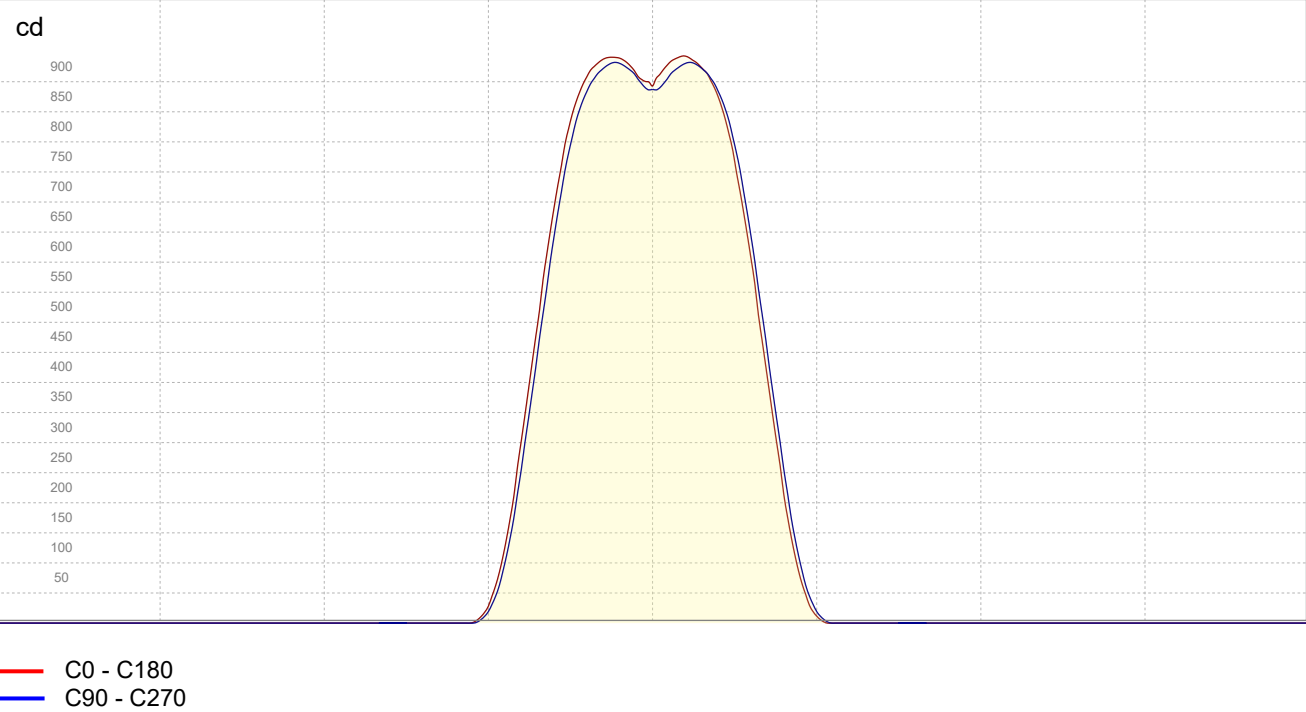
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

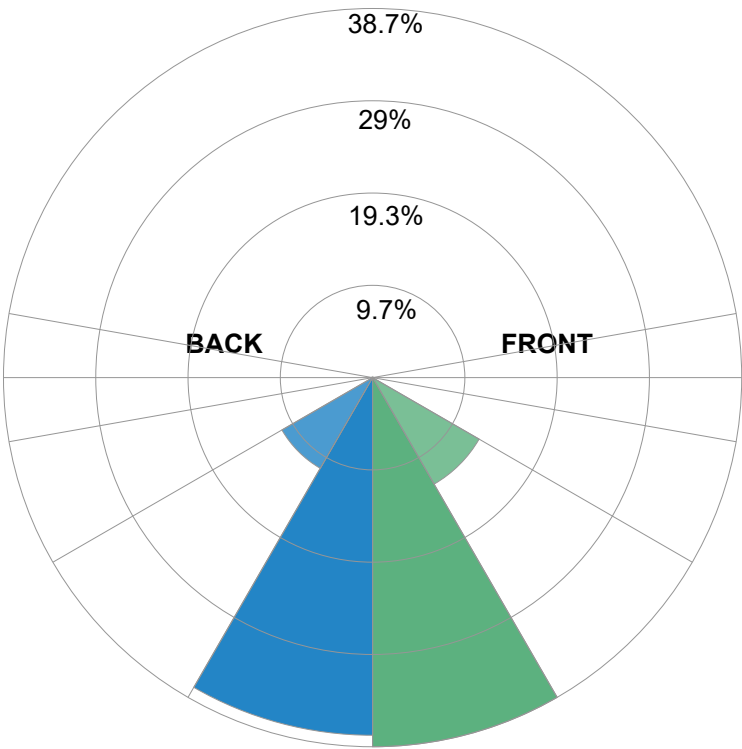


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	339.4	lm	38.7%
Medium (30-60°)	113.1	lm	12.9%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	328.8	lm	37.5%
Medium (30-60°)	96.3	lm	11%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	877	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

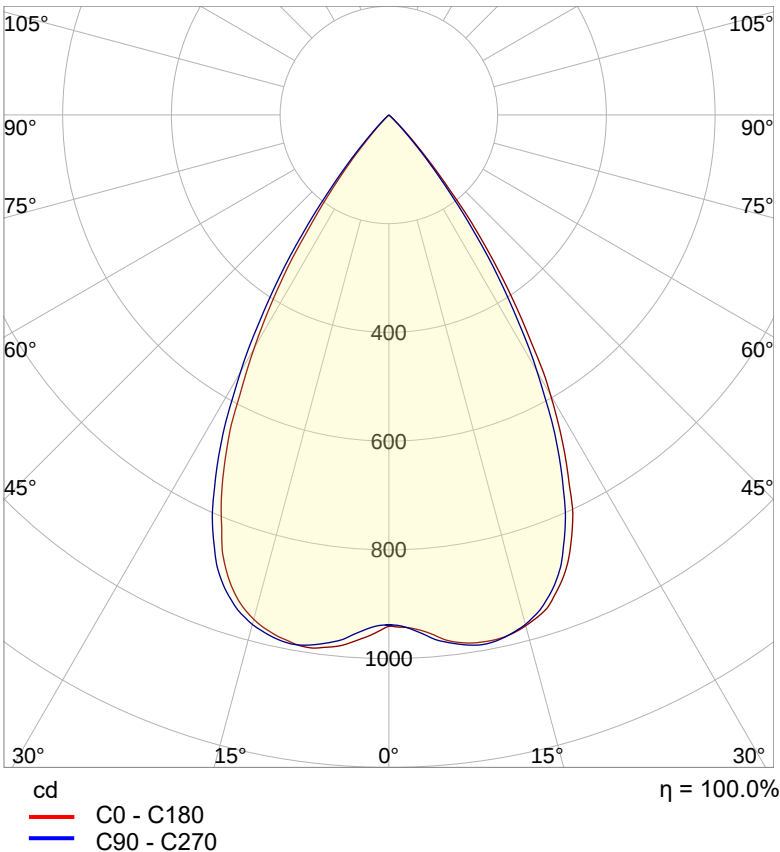
QuikBeam_OutputGain_Disabled_60D_5500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

924 lm – 0% / 100%
n/a lm/W
991 cd
5500 K
CRI 0.0

Polar light distribution diagram

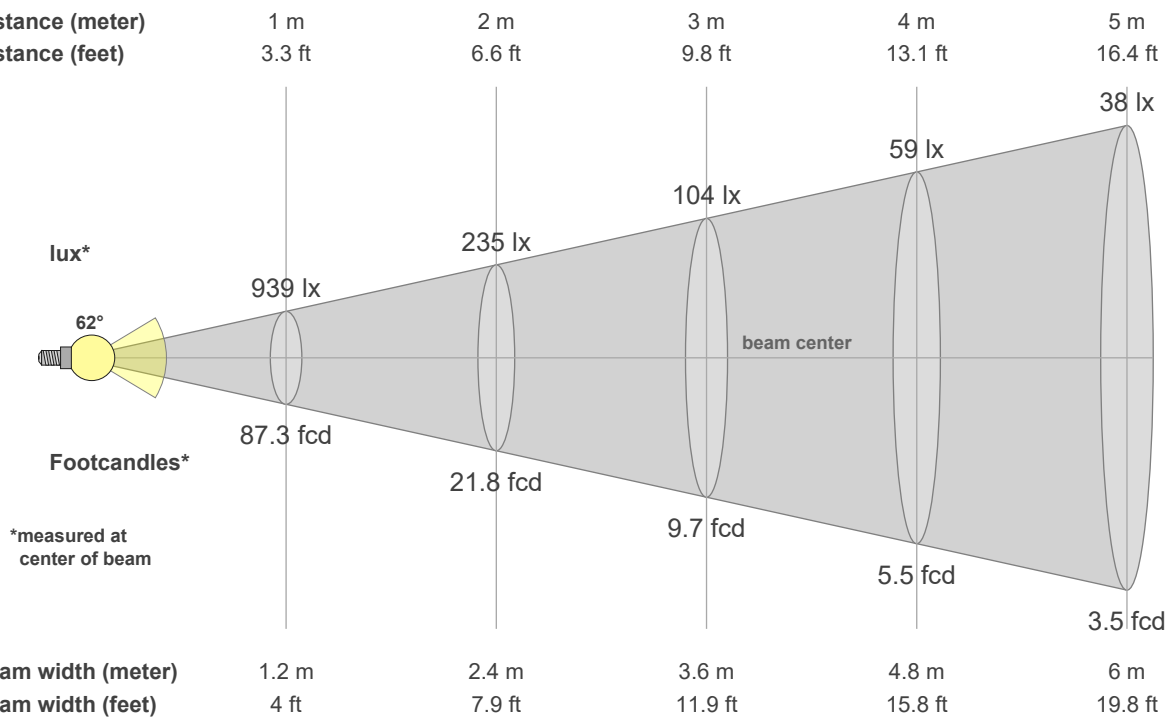


Test report

Light measurement results

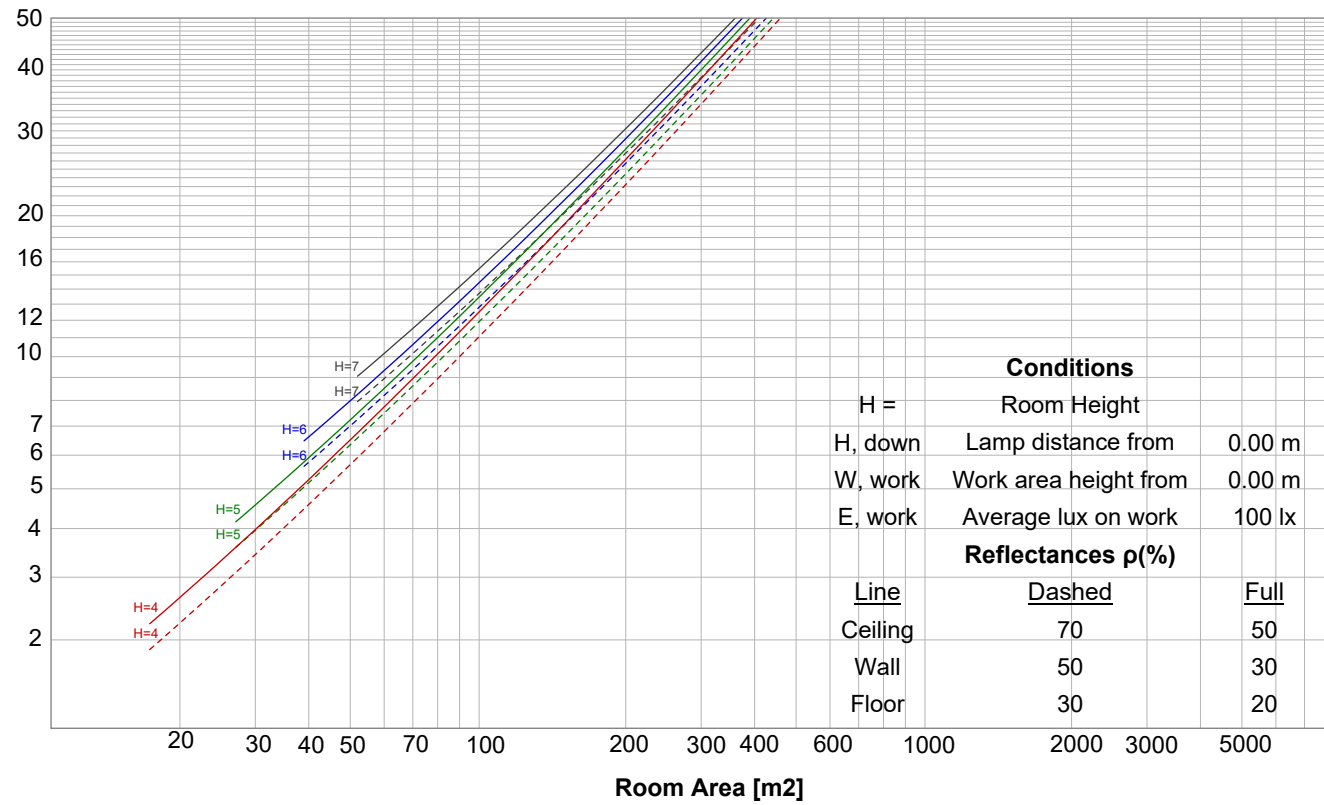
Print date 10/9/2025

Beam details

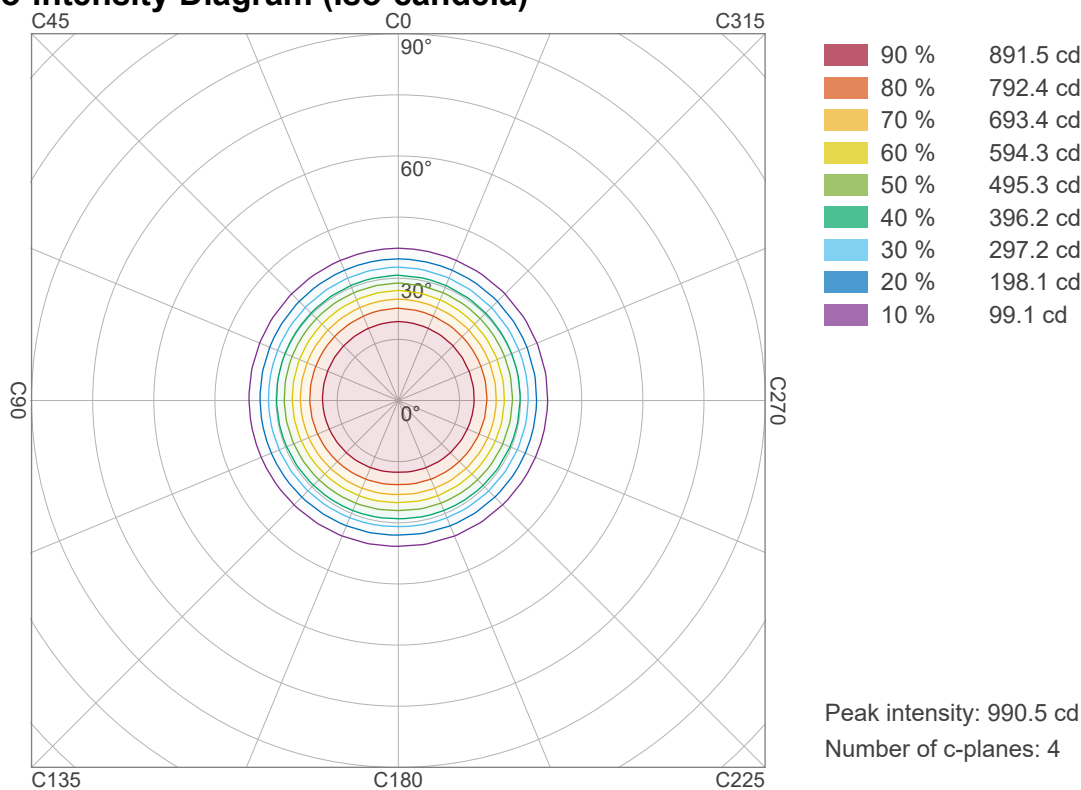


Luminaire budgetary diagram

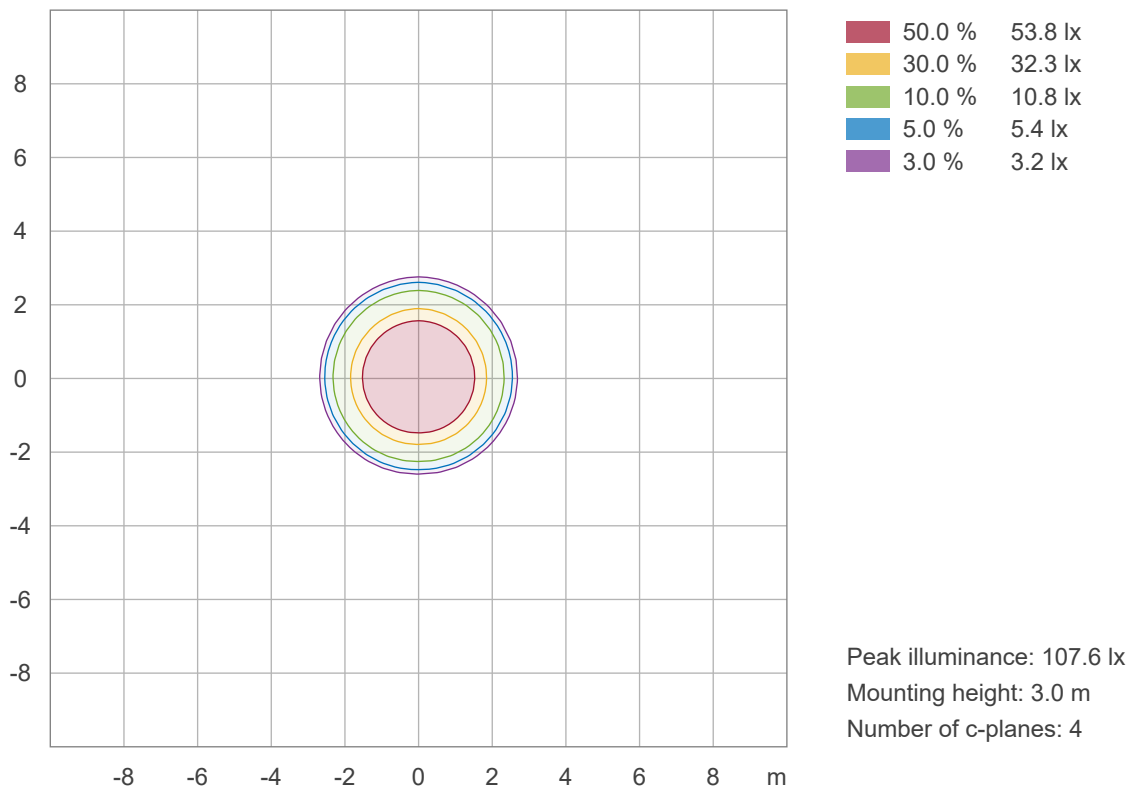
LAMPS (number of lamps)



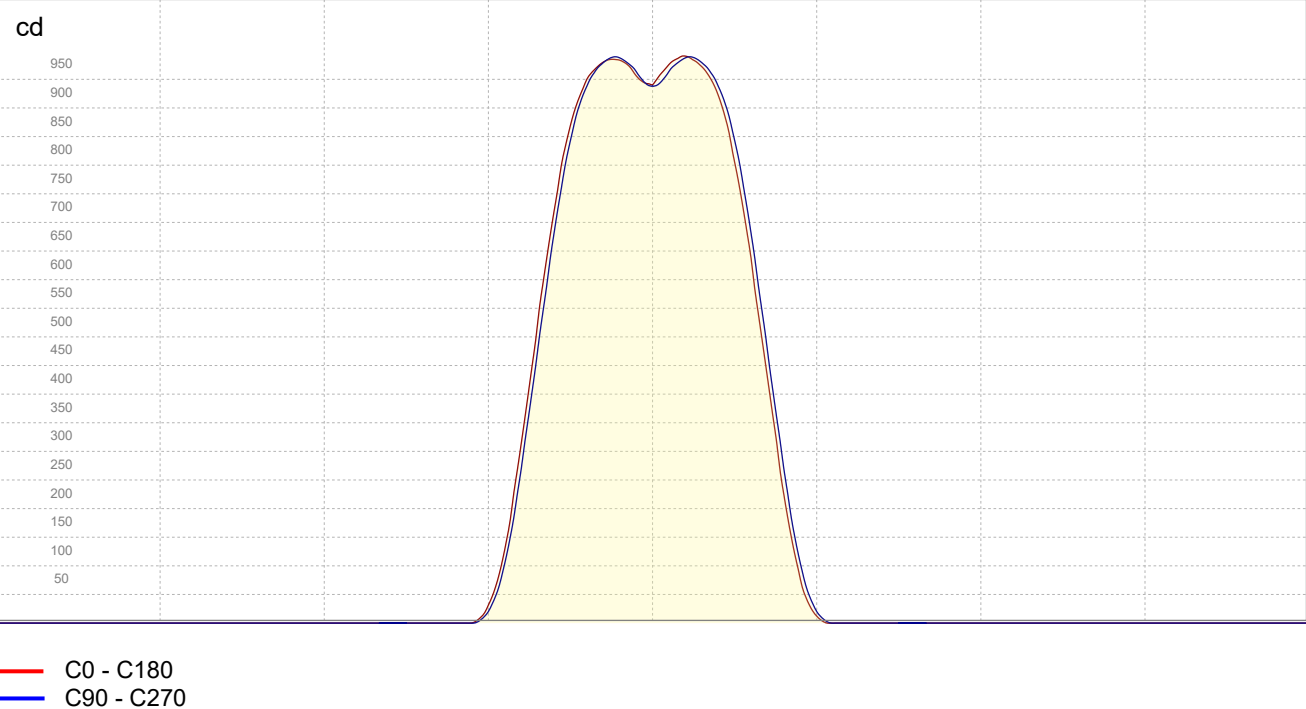
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

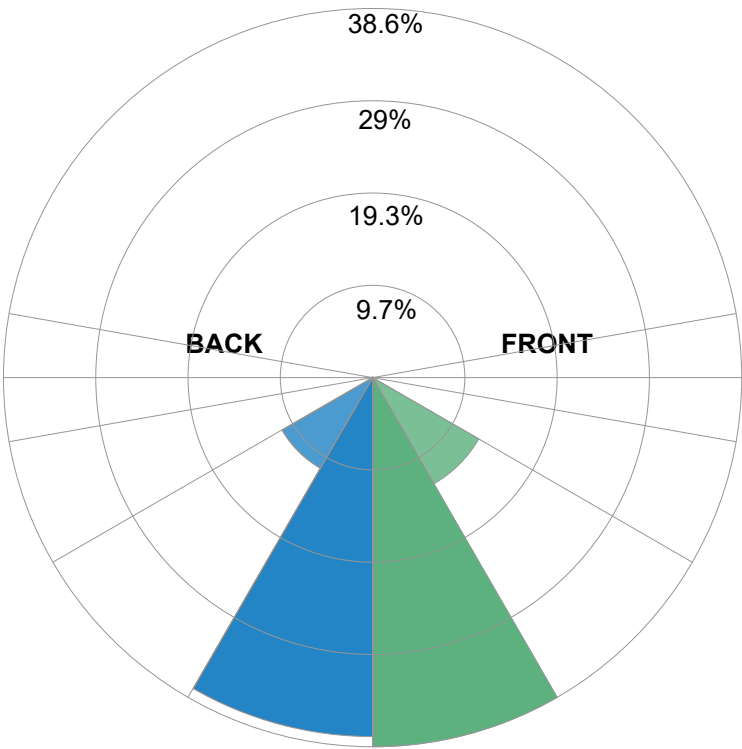


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	357.2	lm	38.6%
Medium (30-60°)	118.6	lm	12.8%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	347.3	lm	37.6%
Medium (30-60°)	101.3	lm	11%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	924	lm	100%
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Test report

Light measurement results

Print date 10/9/2025

Laboratory and Equipment

Test lab
Spectrometer Manufacturer and Model
Measurement date

n/a - serial: n/a sensor serial: n/a
n/a, n/a – n/a
9/10/2025

Measurement Conditions

Tested c-planes
Tested gamma angles
Input Power

5 – distance {C_PLANES_DIST}°
181 – {H_PLANES_DIST}°
- W

Tested Light Source
Luminaire
Basic Luminous Shape
Item No.
Manufacturer

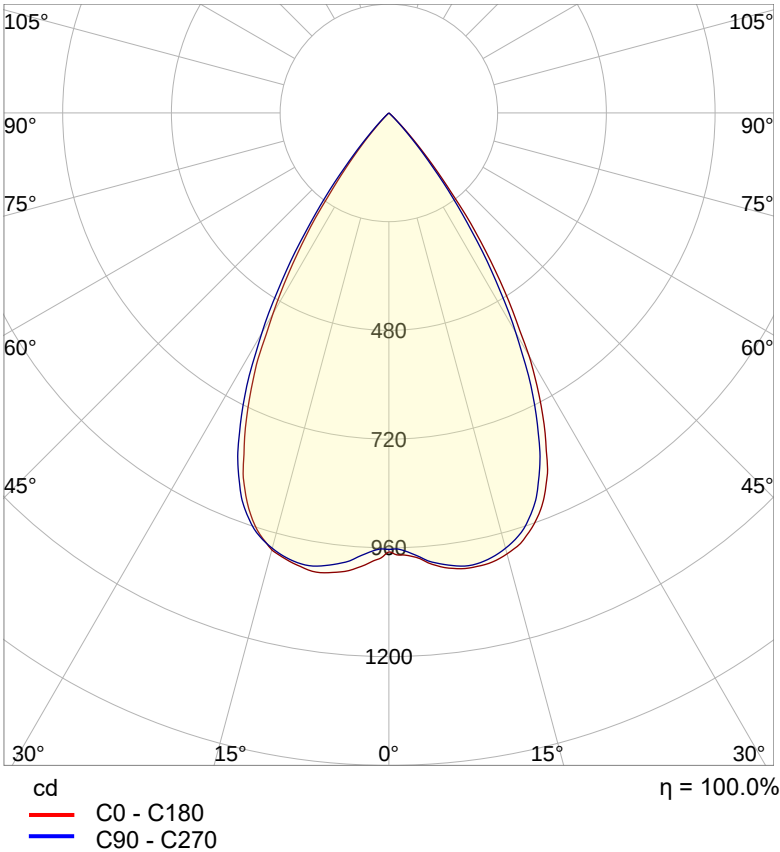
QuikBeam_OutputGain_Disabled_60D_6500K
SPOT

Astera

Main Light Measurement Results
Output – Total Lumen (Up% / Down%)
Efficiency
Peak Intensity
Correlated Color Temperature, CCT
Color Rendering Index

953 lm – 0% / 100%
n/a lm/W
1026 cd
6500 K
CRI 0.0

Polar light distribution diagram

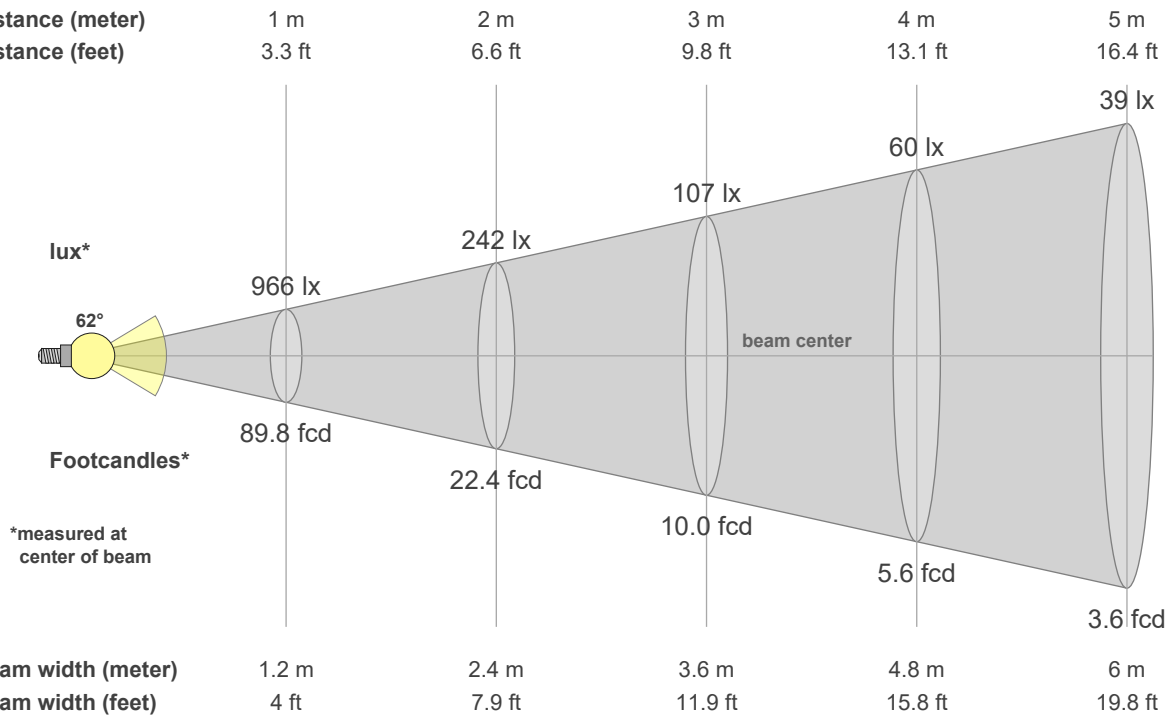


Test report

Light measurement results

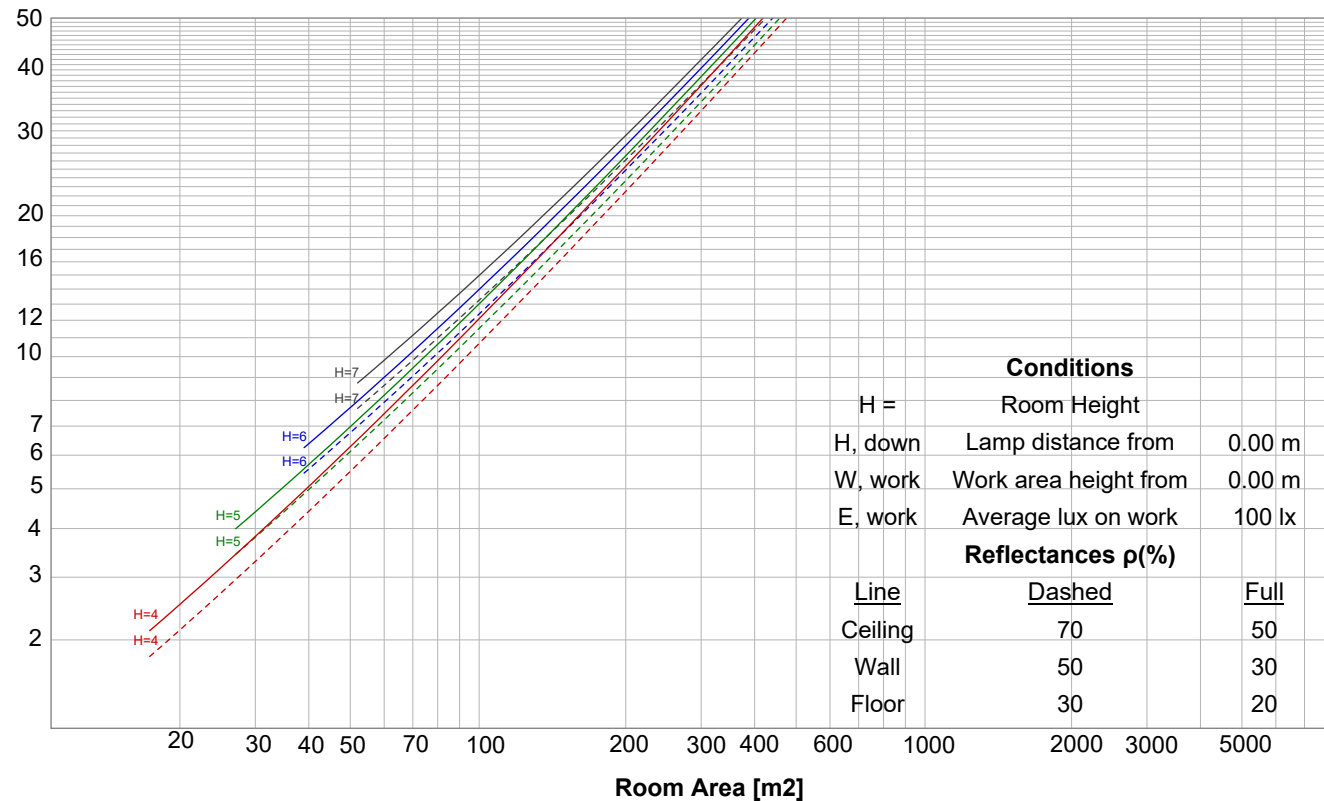
Print date 10/9/2025

Beam details

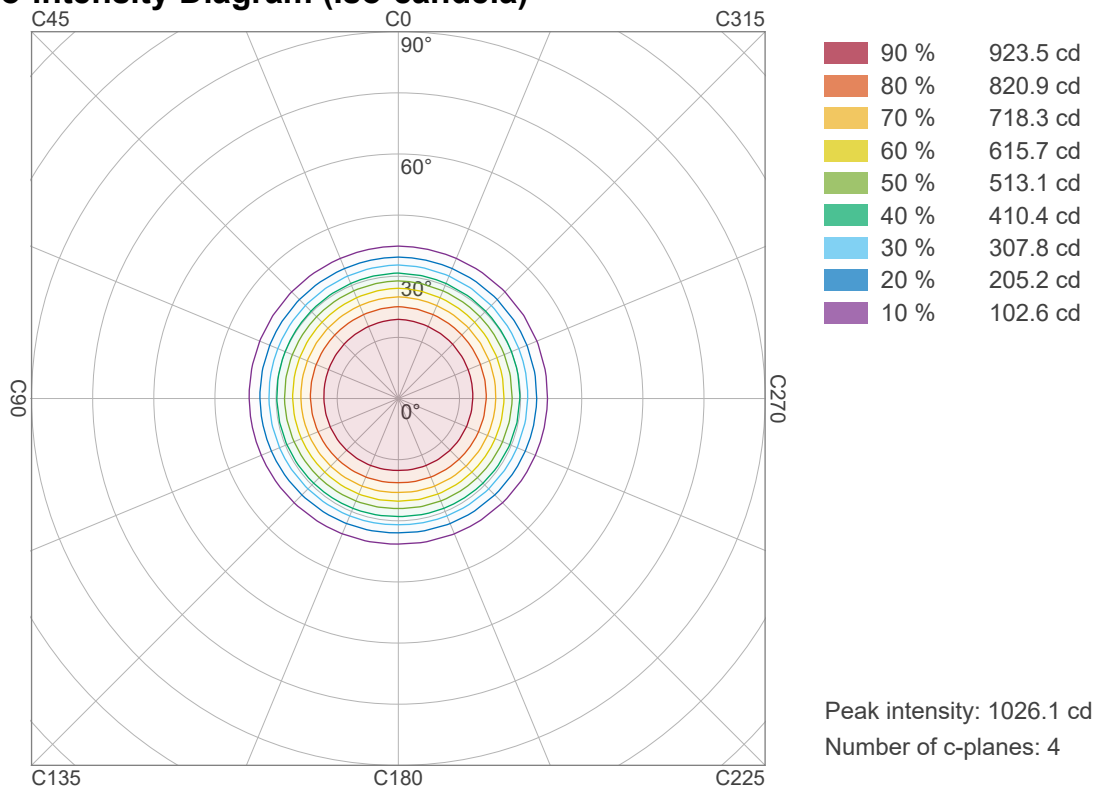


Luminaire budgetary diagram

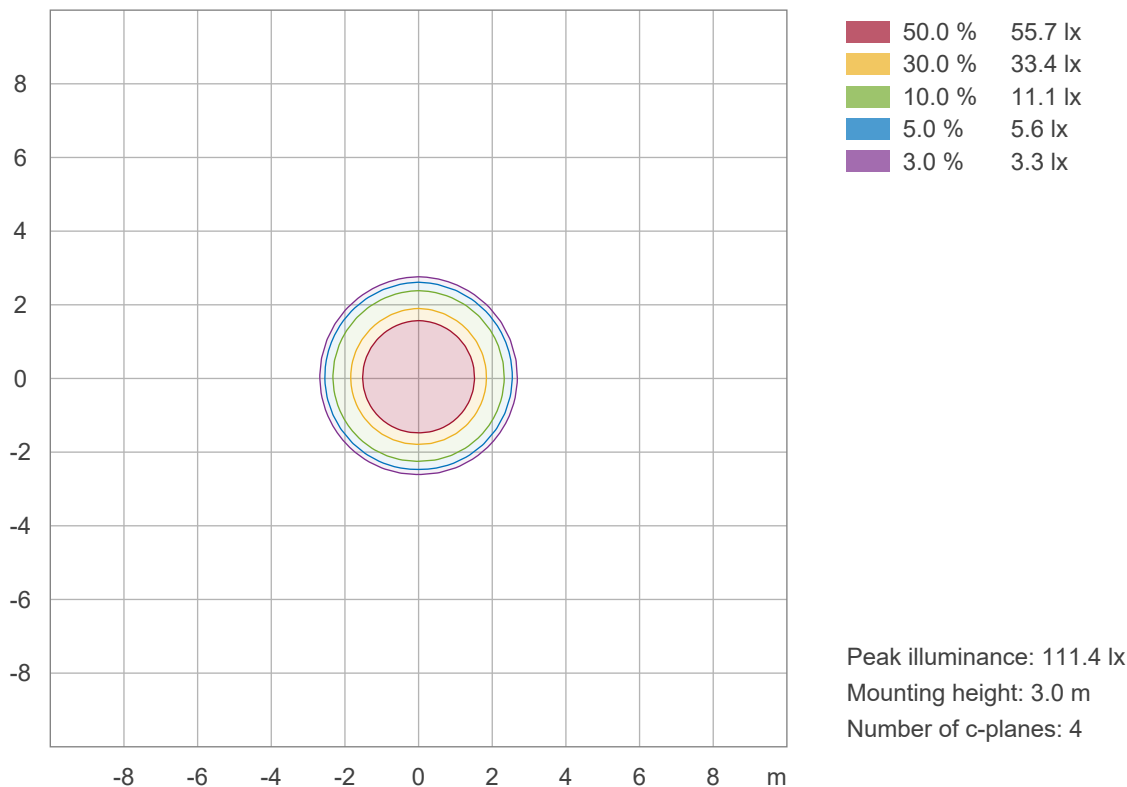
LAMPS (number of lamps)



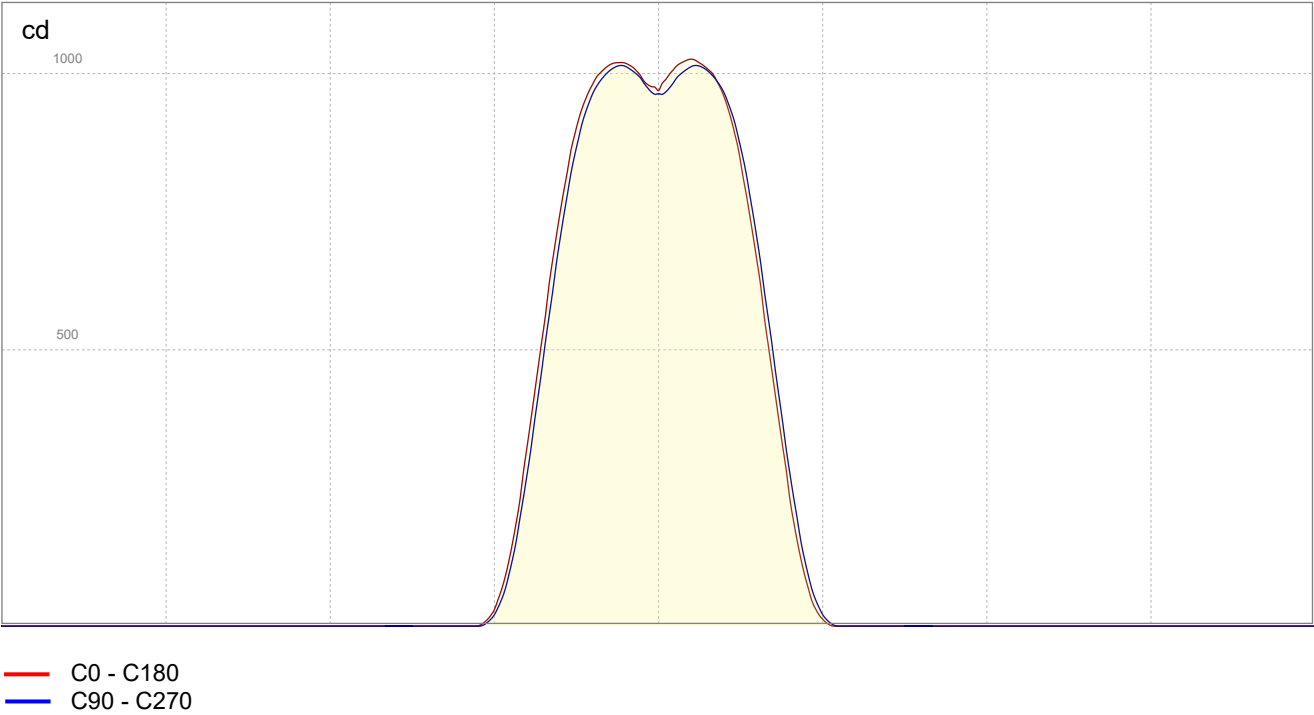
Iso-intensity Diagram (Iso-candela)



Iso-illuminance Diagram (Iso-lux)

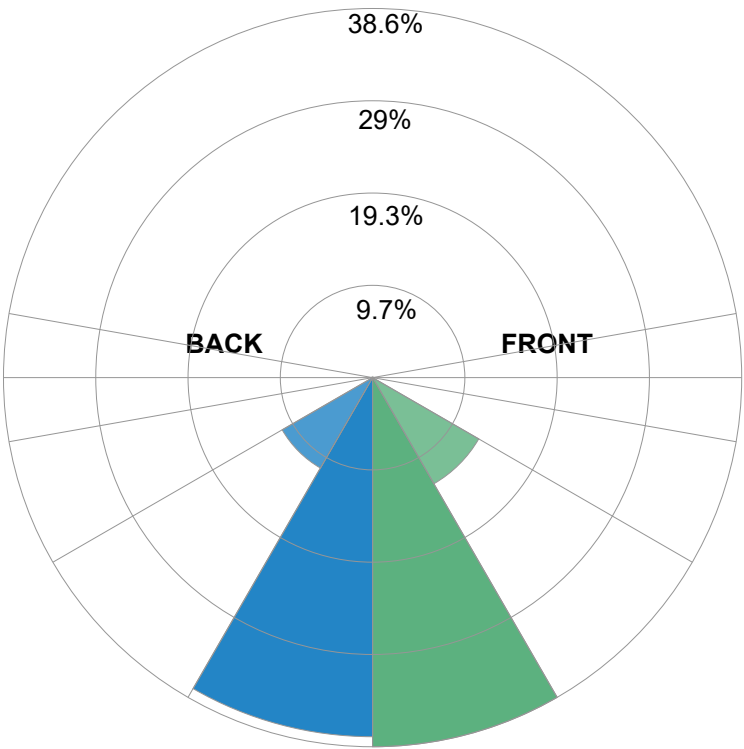


Linear intensity distribution



IESNA TM-15-07 Luminaire Classification System For Outdoor Luminaires

BUG rating B1 U0 G0



Forward Light

Low (0-30°)	368.5	lm	38.6%
Medium (30-60°)	122.3	lm	12.8%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Back Light

Low (0-30°)	358.5	lm	37.6%
Medium (30-60°)	104.2	lm	10.9%
High (60-80°)	0	lm	0%
Very High	0	lm	0%

Uplight

Low (90-100°)	0	lm	0%
High (100-180°)	0	lm	0%

Total

Sum	953	lm	100%
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