

Report of Test

LLIA002372-001

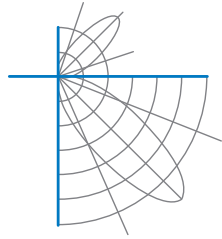
Catalog Number: FL-30PCS-KNTR - 15W Setting - 4000K Setting
Knuckle or trunion mounted, formed aluminum housing, white
plastic reflector, clear glass enclosure in front of LEDs
96 LEDs, 48 cool white and 48 warm white LEDs
Internal LED driver
120.0Vac, 60.00Hz, 0.1224A, 14.42W, 0.982PF, 7.9%THD(i)



Performance Summary

Total Light Output	2448	lm	Illuminance at 10m	8.92 lux
Luminaire Power	14.4	W	Beam Distance	59.7 Meters (to 0.25 lux)
Luminous Efficacy	170.0	lm/W		
Beam Spread (50%)	113.7° V x 114.0° H		Maximum Intensity	892.3 cd
Field Spread (10%)	142.6° V x 155.0° H			
NEMA Type	7H x 7V			

PREPARED FOR : Topaz Lighting, A Southwire Company, 925 Waverly Ave, Holtsville, NY



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Floodlight Summary:

Report data based on absolute values as measured.

Maximum Luminous Intensity 892.3 cd
(Luminaire orientation as tested.)
-0.5° vertical
-0.9° horizontal

Beam Spread	At 10% of max intensity	142.6° V	x	155.0° H
	At 50% of max intensity	113.7° V	x	114.0° H
	At 90% of max intensity	50.7° V	x	52.0° H

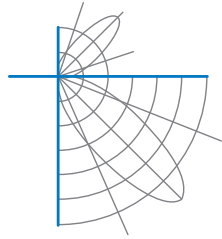
Beam Flux	Total	2448 lm
	To 10% of max intensity	2413 lm
	To 50% of max intensity	1945 lm
	To 90% of max intensity	506 lm

Total Light Output 2448.0 lm

Signed:

Authorized Signatory

Date of test 7-May-2024
Date of report 8-May-2024



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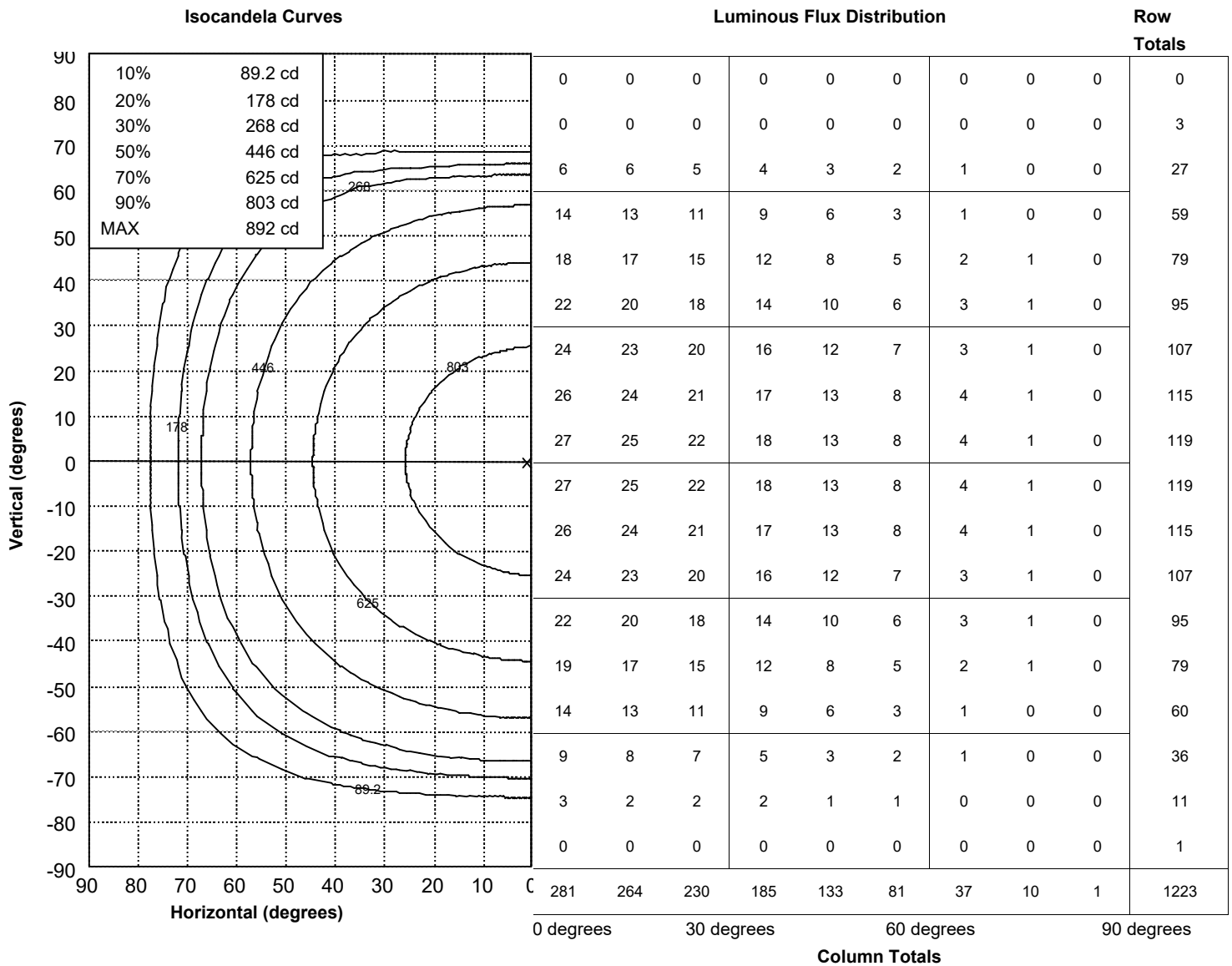
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Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs

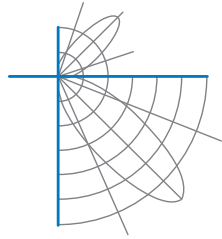
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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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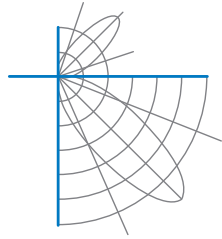
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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90		-60		-30				0	
-90	0.5 0.0	1.2 0.0	1.4 0.0	2.6 0.1	3.2 0.1	3.1 0.1	4.2 0.1	3.8 0.1	4.0 0.1	1
	1.3 0.0	3.9 0.0	20.4 0.3	37.5 0.7	41.5 1.0	57.3 1.6	66.7 2.0	73.2 2.4	78.9 2.7	11
	2.2 0.0	19.9 0.2	62.1 0.8	102.0 1.9	162.6 3.5	211.8 5.3	257.1 7.0	286.8 8.3	303.6 9.0	36
-60	3.4 0.0	44.6 0.4	106.1 1.4	198.7 3.5	285.3 6.1	360.3 9.0	416.9 11.4	455.5 13.3	475.7 14.3	60
	6.2 0.0	66.8 0.6	163.6 2.2	285.1 5.0	394.9 8.5	482.1 12.0	547.7 15.0	590.8 17.3	613.6 18.5	79
	8.5 0.1	86.9 0.7	216.9 2.8	358.2 6.3	481.9 10.4	578.1 14.4	650.0 17.9	697.1 20.4	720.7 21.8	95
-30	10.4 0.1	104.1 0.9	259.2 3.4	416.1 7.3	548.6 11.8	651.3 16.2	726.9 20.0	776.3 22.8	801.2 24.2	107
	11.7 0.1	115.9 1.0	287.9 3.8	455.5 8.0	593.5 12.8	698.9 17.4	778.2 21.4	829.5 24.3	855.2 25.9	115
	12.3 0.1	121.9 1.1	303.3 4.0	476.6 8.3	616.1 13.2	724.0 18.0	805.1 22.1	858.2 25.2	883.3 26.7	119
0	12.3 0.1	121.8 1.1	302.9 4.0	476.0 8.3	616.1 13.2	724.3 18.0	805.4 22.1	857.9 25.2	883.8 26.7	119
	11.6 0.1	115.7 1.0	287.8 3.8	455.5 8.0	593.7 12.8	699.3 17.4	778.6 21.4	830.1 24.3	855.6 25.9	115
	10.4 0.1	104.0 0.9	259.0 3.4	415.9 7.3	548.9 11.8	651.4 16.2	726.7 20.0	776.4 22.8	801.3 24.2	107
30	8.5 0.1	86.9 0.7	216.9 2.8	358.4 6.3	482.3 10.4	579.2 14.4	650.2 17.9	697.1 20.4	720.3 21.8	95
	6.2 0.0	66.8 0.6	163.6 2.2	284.9 5.0	395.0 8.5	482.1 12.0	547.0 15.0	589.5 17.3	610.5 18.4	79
	3.4 0.0	44.4 0.4	105.8 1.4	195.5 3.4	284.5 6.1	359.8 8.9	415.6 11.4	453.1 13.2	471.9 14.2	59
60	2.1 0.0	19.5 0.2	60.4 0.8	80.2 1.5	132.9 2.8	157.2 4.0	179.1 5.2	196.8 6.0	208.9 6.5	27
	1.3 0.0	3.4 0.0	18.2 0.3	19.7 0.3	11.5 0.4	9.2 0.4	9.5 0.4	9.4 0.3	9.7 0.4	3
	0.5 0.0	0.9 0.0	0.6 0.0	0.8 0.0	0.3 0.0	0.1 0.0	0.1 0.0	0.0 0.0	0.0 0.0	0
90	1	10	37	81	133	185	230	264	281	1223
Lumen Totals										

Standard table of intensity and illuminance in accordance with IES procedures.
Angular data is shown with the polar axis horizontal.
Luminous flux expressed as lumens within marked zones.
Luminous intensity expressed as candelas at centre of zones.

Legend:

candelas
lumens



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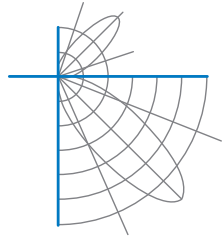
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Internal LED driver
120.0Vac, 60.00Hz, 0.1224A, 14.42W, 0.982PF, 7.9%THD(i)

Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0		30		60		90			
-90	4.0 0.1	3.8 0.1	4.2 0.1	3.1 0.1	3.2 0.1	2.6 0.1	1.4 0.0	1.2 0.0	0.5 0.0	1
	78.9 2.7	73.2 2.4	66.7 2.0	57.3 1.6	41.5 1.0	37.5 0.7	20.4 0.3	3.9 0.0	1.3 0.0	11
	303.6 9.0	286.8 8.3	257.1 7.0	211.8 5.3	162.6 3.5	102.0 1.9	62.1 0.8	19.9 0.2	2.2 0.0	36
-60	475.7 14.3	455.5 13.3	416.9 11.4	360.3 9.0	285.3 6.1	198.7 3.5	106.1 1.4	44.6 0.4	3.4 0.0	60
	613.6 18.5	590.8 17.3	547.7 15.0	482.1 12.0	394.9 8.5	285.1 5.0	163.6 2.2	66.8 0.6	6.2 0.0	79
	720.7 21.8	697.1 20.4	650.0 17.9	578.1 14.4	481.9 10.4	358.2 6.3	216.9 2.8	86.9 0.7	8.5 0.1	95
-30	801.2 24.2	776.3 22.8	726.9 20.0	651.3 16.2	548.6 11.8	416.1 7.3	259.2 3.4	104.1 0.9	10.4 0.1	107
	855.2 25.9	829.5 24.3	778.2 21.4	698.9 17.4	593.5 12.8	455.5 8.0	287.9 3.8	115.9 1.0	11.7 0.1	115
	883.3 26.7	858.2 25.2	805.1 22.1	724.0 18.0	616.1 13.2	476.6 8.3	303.3 4.0	121.9 1.1	12.3 0.1	119
0	883.8 26.7	857.9 25.2	805.4 22.1	724.3 18.0	616.1 13.2	476.0 8.3	302.9 4.0	121.8 1.1	12.3 0.1	119
	855.6 25.9	830.1 24.3	778.6 21.4	699.3 17.4	593.7 12.8	455.5 8.0	287.8 3.8	115.7 1.0	11.6 0.1	115
	801.3 24.2	776.4 22.8	726.7 20.0	651.4 16.2	548.9 11.8	415.9 7.3	259.0 3.4	104.0 0.9	10.4 0.1	107
30	720.3 21.8	697.1 20.4	650.2 17.9	579.2 14.4	482.3 10.4	358.4 6.3	216.9 2.8	86.9 0.7	8.5 0.1	95
	610.5 18.4	589.5 17.3	547.0 15.0	482.1 12.0	395.0 8.5	284.9 5.0	163.6 2.2	66.8 0.6	6.2 0.0	79
	471.9 14.2	453.1 13.2	415.6 11.4	359.8 8.9	284.5 6.1	195.5 3.4	105.8 1.4	44.4 0.4	3.4 0.0	59
60	208.9 6.5	196.8 6.0	179.1 5.2	157.2 4.0	132.9 2.8	80.2 1.5	60.4 0.8	19.5 0.2	2.1 0.0	27
	9.7 0.4	9.4 0.3	9.5 0.4	9.2 0.4	11.5 0.4	19.7 0.3	18.2 0.3	3.4 0.0	1.3 0.0	3
	0.0 0.0	0.0 0.0	0.1 0.0	0.1 0.0	0.3 0.0	0.8 0.0	0.6 0.0	0.9 0.0	0.5 0.0	0
90	281	264	230	185	133	81	37	10	1	1223
Lumen Totals										

Standard table of intensity and illuminance in accordance with IES procedures.
Angular data is shown with the polar axis horizontal.
Luminous flux expressed as lumens within marked zones.
Luminous intensity expressed as candelas at centre of zones.

Legend:

candelas
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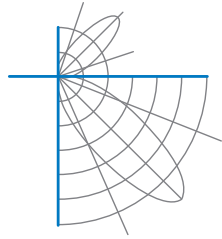
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	891.12
87.0	0.04	-3.0	890.62
84.0	0.00	-6.0	885.88
81.0	0.00	-9.0	878.24
78.0	1.72	-12.0	870.10
75.0	9.40	-15.0	859.38
72.0	16.90	-18.0	845.39
69.0	67.69	-21.0	829.39
66.0	165.47	-24.0	810.87
63.0	284.24	-27.0	790.73
60.0	389.33	-30.0	768.24
57.0	441.10	-33.0	742.15
54.0	489.28	-36.0	715.05
51.0	534.56	-39.0	685.17
48.0	575.13	-42.0	652.85
45.0	614.07	-45.0	617.30
42.0	649.84	-48.0	579.24
39.0	683.57	-51.0	538.32
36.0	713.70	-54.0	494.40
33.0	742.10	-57.0	446.39
30.0	768.15	-60.0	396.57
27.0	791.30	-63.0	344.48
24.0	811.60	-66.0	281.80
21.0	830.31	-69.0	201.65
18.0	846.13	-72.0	133.07
15.0	859.54	-75.0	74.81
12.0	870.53	-78.0	29.96
9.0	878.79	-81.0	9.90
6.0	885.52	-84.0	5.26
3.0	889.97	-87.0	1.80
0.0	891.12	-90.0	0.79

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.07	0.0	891.12
87.0	3.05	-3.0	890.09
84.0	16.29	-6.0	885.81
81.0	49.90	-9.0	881.53
78.0	83.51	-12.0	872.31
75.0	117.12	-15.0	861.44
72.0	173.61	-18.0	848.64
69.0	230.11	-21.0	832.74
66.0	286.61	-24.0	815.50
63.0	340.67	-27.0	795.15
60.0	393.51	-30.0	771.74
57.0	446.35	-33.0	746.95
54.0	495.92	-36.0	718.29
51.0	538.95	-39.0	687.81
48.0	581.98	-42.0	655.50
45.0	619.64	-45.0	619.64
42.0	655.50	-48.0	581.98
39.0	687.81	-51.0	538.95
36.0	718.29	-54.0	495.92
33.0	746.95	-57.0	446.35
30.0	771.74	-60.0	393.51
27.0	795.15	-63.0	340.67
24.0	815.50	-66.0	286.61
21.0	832.74	-69.0	230.11
18.0	848.64	-72.0	173.61
15.0	861.44	-75.0	117.12
12.0	872.31	-78.0	83.51
9.0	881.53	-81.0	49.90
6.0	885.81	-84.0	16.29
3.0	890.09	-87.0	3.05
0.0	891.12	-90.0	0.07

Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



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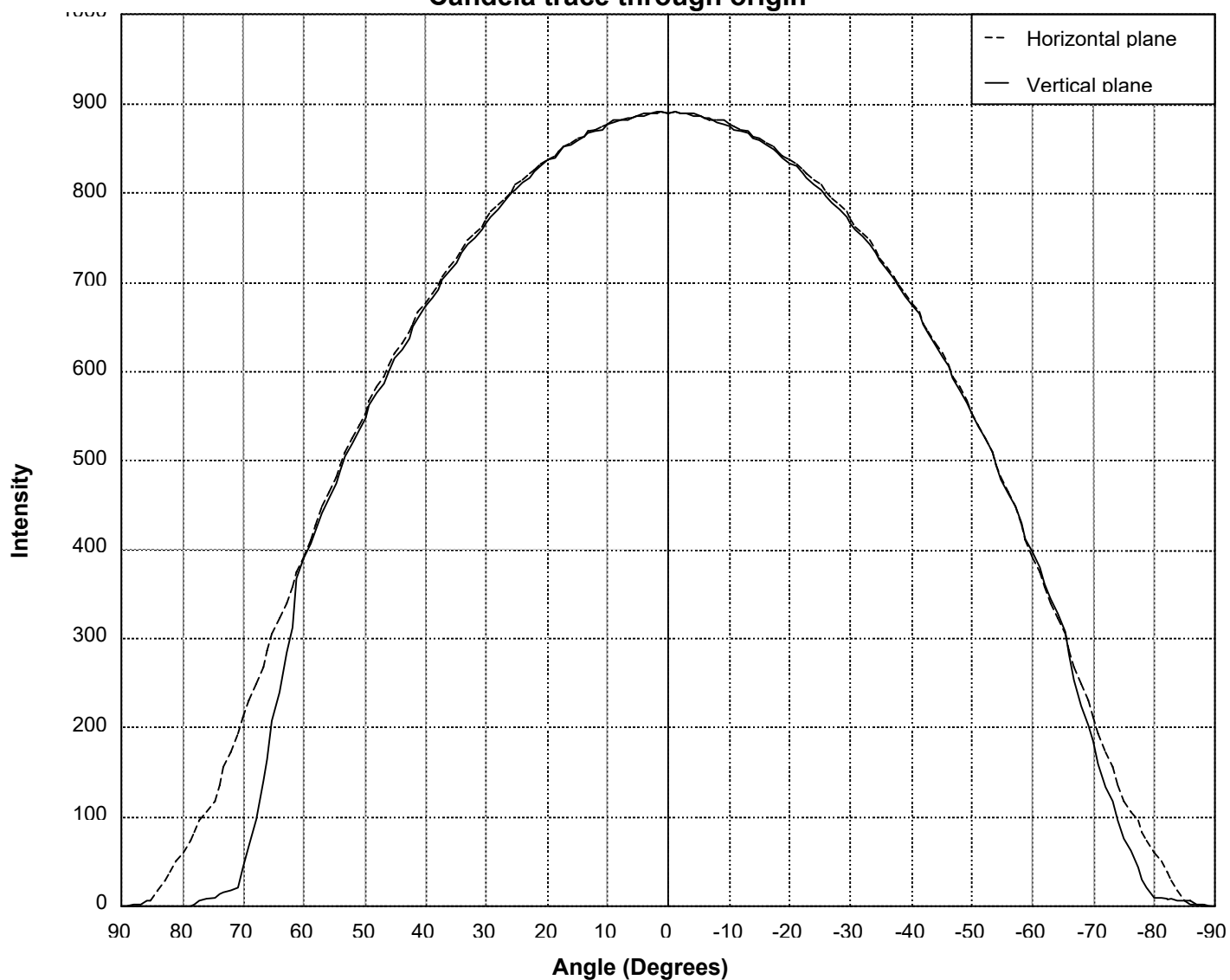
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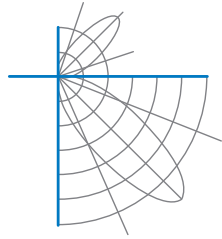
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Candela trace through origin



Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



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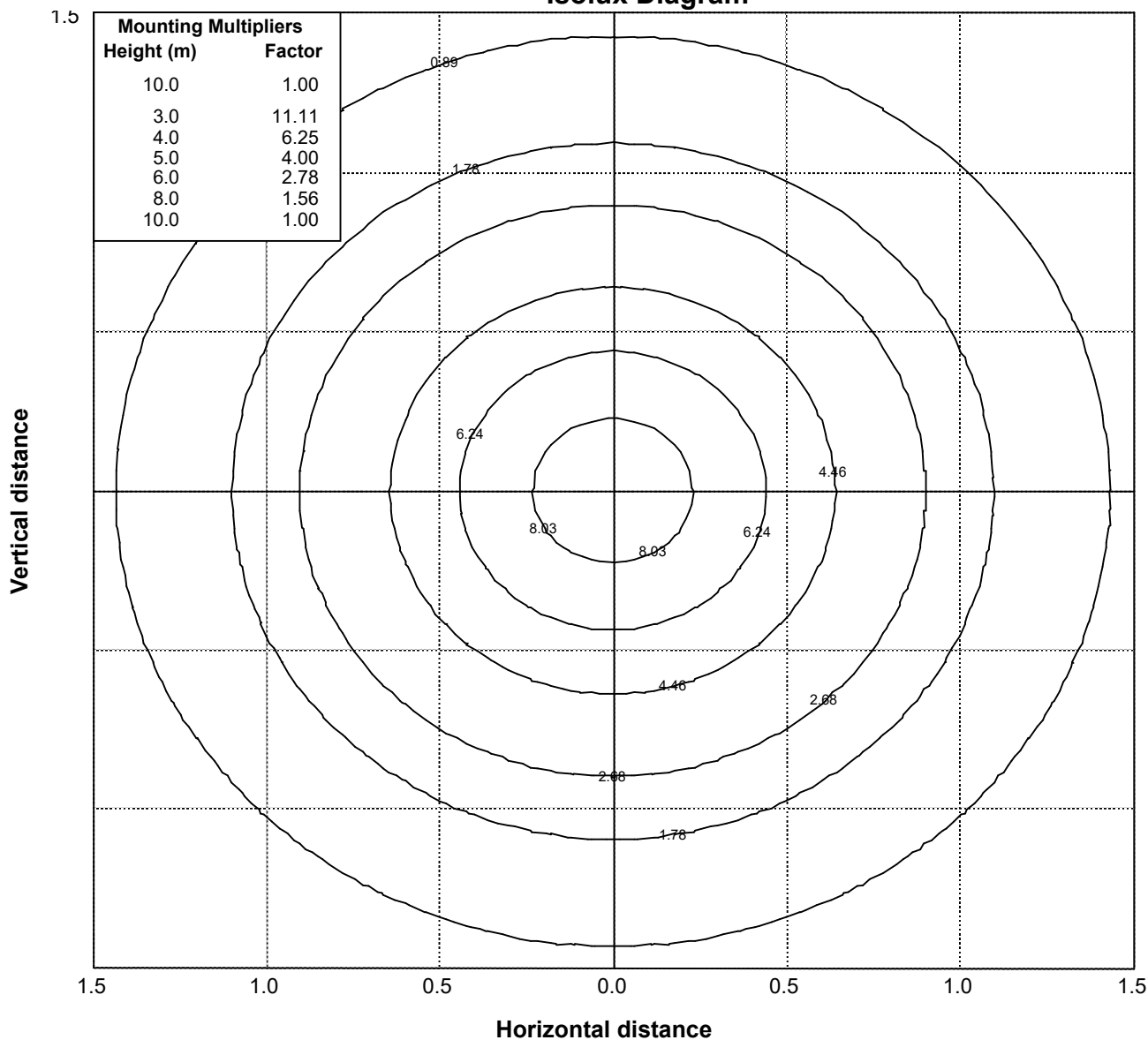
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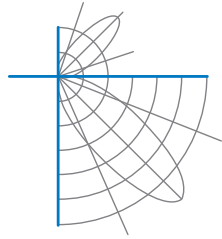
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Isolux Diagram



Note: The isolux levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height.
The isolux contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.
The isolux contour units are expressed as lux. The left and right sides of photometric data have been averaged.



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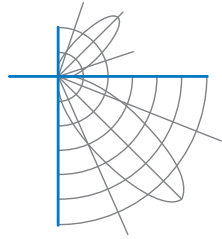
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Test Distance 9.5 m
Test Temperature 25.1 °C

Notes The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-19, IES LM-75-19, and IES LM-35-20.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE (B, β) coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

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