

Report of Test

LLIA002372-003

Catalog Number: FL-30PCS-KNTR - 30W 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, 0.2321A, 27.46W, 0.986PF, 13.2%THD(i)



Performance Summary

Total Light Output	4327	lm	Illuminance at 10m	15.8 lux
Luminaire Power	27.5	W	Beam Distance	79.5 Meters (to 0.25 lux)
Luminous Efficacy	157.3	lm/W	Maximum Intensity	1578.3 cd
Beam Spread (50%)	113.7° V x 114.0° H			
Field Spread (10%)	142.6° V x 154.9° 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	1578.3	cd
(Luminaire orientation as tested.)	0.0°	vertical
	0.0°	horizontal

Beam Spread	At 10% of max intensity	142.6° V	x	154.9° H
	At 50% of max intensity	113.7° V	x	114.0° H
	At 90% of max intensity	50.6° V	x	51.8° H

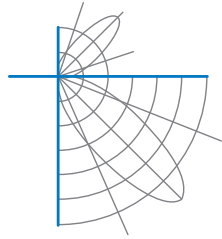
Beam Flux	Total	4327	Im
	To 10% of max intensity	4260	Im
	To 50% of max intensity	3423	Im
	To 90% of max intensity	896	Im

Total Light Output	4326.8 lm
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Signed:

Authorized Signatory

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



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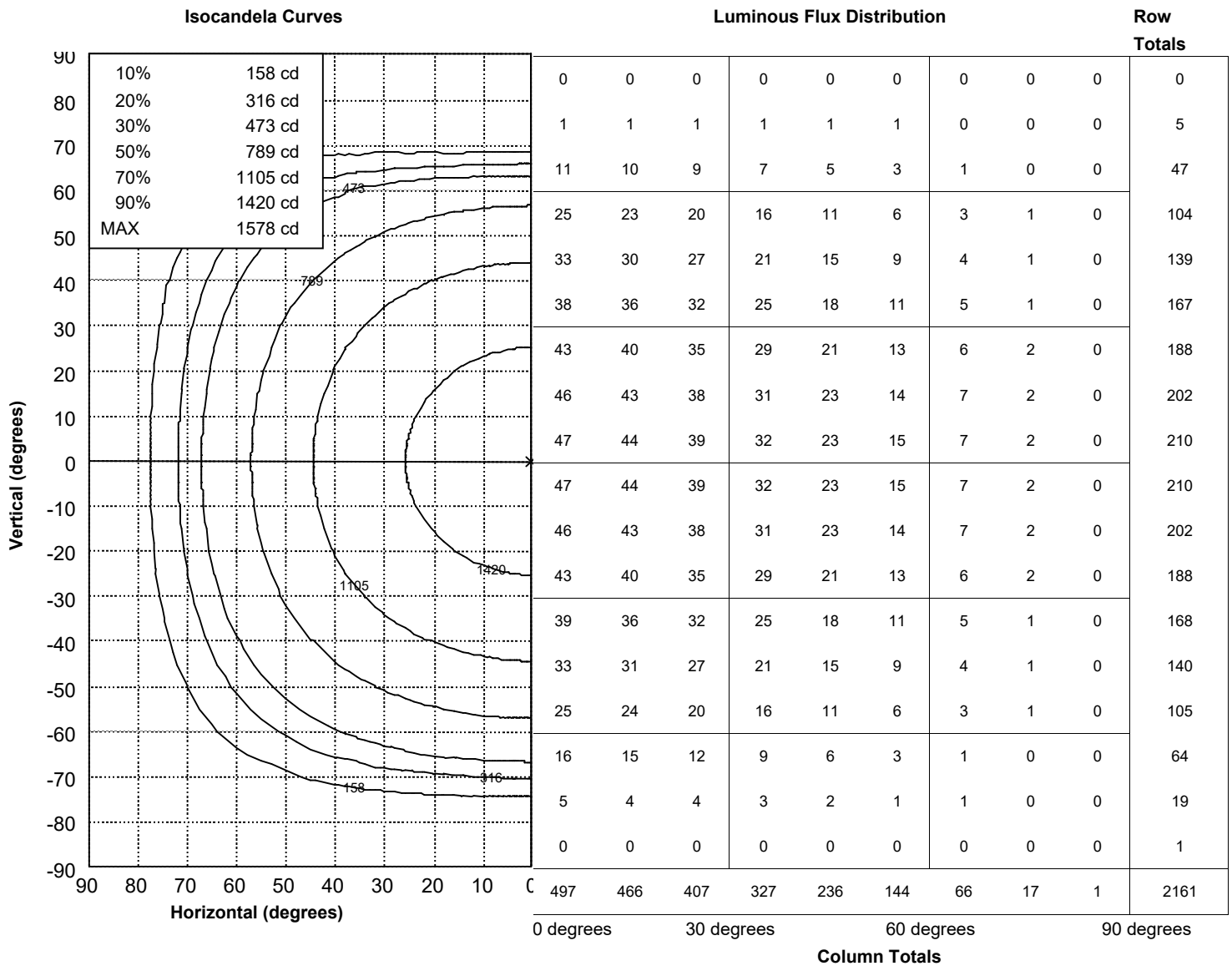
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Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs

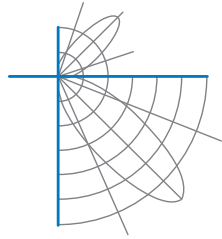
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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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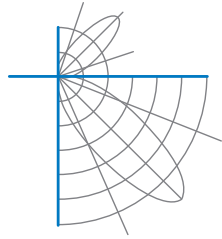
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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90		-60		-30				0	
-90	0.8 0.0	2.2 0.0	2.4 0.0	3.0 0.1	3.6 0.2	5.7 0.2	6.4 0.3	6.6 0.3	6.9 0.3	1
	2.3 0.0	6.2 0.1	36.2 0.5	67.3 1.2	65.4 1.9	100.5 2.8	116.1 3.6	126.8 4.3	133.7 4.6	19
	3.8 0.0	35.4 0.3	110.1 1.4	180.2 3.3	290.6 6.2	376.0 9.3	458.0 12.3	513.1 14.6	542.2 15.9	64
-60	5.1 0.0	79.0 0.7	181.7 2.5	353.2 6.2	505.8 10.9	638.0 15.9	738.2 20.3	806.3 23.6	842.9 25.4	105
	6.3 0.1	118.3 1.0	290.1 3.8	505.3 8.8	701.2 15.0	853.3 21.2	969.0 26.6	1046.3 30.6	1086.6 32.8	140
	7.3 0.1	151.9 1.3	384.5 5.0	634.3 11.1	853.0 18.3	1023.4 25.4	1150.0 31.6	1233.3 36.1	1275.7 38.5	168
-30	8.1 0.1	178.3 1.6	460.2 6.0	737.4 12.9	972.4 20.9	1151.7 28.6	1285.7 35.3	1373.4 40.2	1417.3 42.8	188
	8.6 0.1	196.5 1.8	511.1 6.7	808.4 14.1	1049.8 22.5	1236.0 30.7	1376.6 37.8	1467.5 43.0	1512.8 45.7	202
	8.9 0.1	205.8 1.9	538.7 7.0	845.9 14.7	1089.8 23.4	1280.1 31.9	1423.3 39.1	1516.5 44.5	1562.0 47.2	210
0	8.9 0.1	205.4 1.9	537.7 7.0	844.8 14.7	1089.0 23.4	1280.2 31.9	1423.2 39.1	1516.5 44.5	1562.2 47.3	210
	8.6 0.1	195.9 1.8	510.7 6.7	807.9 14.1	1049.8 22.5	1236.1 30.7	1376.3 37.8	1468.1 43.0	1513.0 45.7	202
	8.0 0.1	177.7 1.6	459.2 6.0	736.3 12.9	972.0 20.8	1150.9 28.6	1284.8 35.3	1372.9 40.2	1417.2 42.8	188
30	7.3 0.1	151.4 1.3	383.6 5.0	633.5 11.1	852.8 18.3	1023.3 25.4	1149.3 31.6	1232.0 36.1	1273.1 38.5	167
	6.3 0.1	117.8 1.0	289.1 3.8	503.7 8.8	699.7 15.0	852.1 21.2	966.3 26.5	1041.7 30.5	1079.6 32.6	139
	5.1 0.0	78.3 0.7	180.5 2.5	344.3 6.0	502.7 10.7	635.5 15.7	733.9 20.1	800.1 23.3	833.2 25.1	104
60	3.8 0.0	34.4 0.3	107.9 1.4	138.9 2.7	234.9 5.0	275.1 7.0	310.9 9.0	340.4 10.3	362.4 11.2	47
	2.3 0.0	5.1 0.1	33.5 0.4	34.2 0.6	11.8 0.7	13.3 0.7	13.6 0.7	15.2 0.7	16.1 0.8	5
90	0.8 0.0	1.6 0.0	0.9 0.0	0.5 0.0	0.2 0.0	0.2 0.0	0.1 0.0	0.1 0.0	0.1 0.0	0
	1	17	66	144	236	327	407	466	497	2161
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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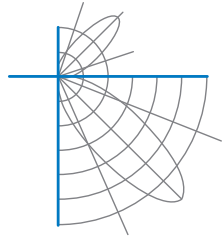
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Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90						
-90	6.9 0.3	6.6 0.3	6.4 0.3	5.7 0.2	3.6 0.2	3.0 0.1	2.4 0.0	2.2 0.0	0.8 0.0	1
	133.7 4.6	126.8 4.3	116.1 3.6	100.5 2.8	65.4 1.9	67.3 1.2	36.2 0.5	6.2 0.1	2.3 0.0	19
	542.2 15.9	513.1 14.6	458.0 12.3	376.0 9.3	290.6 6.2	180.2 3.3	110.1 1.4	35.4 0.3	3.8 0.0	64
-60	842.9 25.4	806.3 23.6	738.2 20.3	638.0 15.9	505.8 10.9	353.2 6.2	181.7 2.5	79.0 0.7	5.1 0.0	105
	1086.6 32.8	1046.3 30.6	969.0 26.6	853.3 21.2	701.2 15.0	505.3 8.8	290.1 3.8	118.3 1.0	6.3 0.1	140
	1275.7 38.5	1233.3 36.1	1150.0 31.6	1023.4 25.4	853.0 18.3	634.3 11.1	384.5 5.0	151.9 1.3	7.3 0.1	168
-30	1417.3 42.8	1373.4 40.2	1285.7 35.3	1151.7 28.6	972.4 20.9	737.4 12.9	460.2 6.0	178.3 1.6	8.1 0.1	188
	1512.8 45.7	1467.5 43.0	1376.6 37.8	1236.0 30.7	1049.8 22.5	808.4 14.1	511.1 6.7	196.5 1.8	8.6 0.1	202
	1562.0 47.2	1516.5 44.5	1423.3 39.1	1280.1 31.9	1089.8 23.4	845.9 14.7	538.7 7.0	205.8 1.9	8.9 0.1	210
0	1562.2 47.3	1516.5 44.5	1423.2 39.1	1280.2 31.9	1089.0 23.4	844.8 14.7	537.7 7.0	205.4 1.9	8.9 0.1	210
	1513.0 45.7	1468.1 43.0	1376.3 37.8	1236.1 30.7	1049.8 22.5	807.9 14.1	510.7 6.7	195.9 1.8	8.6 0.1	202
	1417.2 42.8	1372.9 40.2	1284.8 35.3	1150.9 28.6	972.0 20.8	736.3 12.9	459.2 6.0	177.7 1.6	8.0 0.1	188
30	1273.1 38.5	1232.0 36.1	1149.3 31.6	1023.3 25.4	852.8 18.3	633.5 11.1	383.6 5.0	151.4 1.3	7.3 0.1	167
	1079.6 32.6	1041.7 30.5	966.3 26.5	852.1 21.2	699.7 15.0	503.7 8.8	289.1 3.8	117.8 1.0	6.3 0.1	139
	833.2 25.1	800.1 23.3	733.9 20.1	635.5 15.7	502.7 10.7	344.3 6.0	180.5 2.5	78.3 0.7	5.1 0.0	104
60	362.4 11.2	340.4 10.3	310.9 9.0	275.1 7.0	234.9 5.0	138.9 2.7	107.9 1.4	34.4 0.3	3.8 0.0	47
	16.1 0.8	15.2 0.7	13.6 0.7	13.3 0.7	11.8 0.7	34.2 0.6	33.5 0.4	5.1 0.1	2.3 0.0	5
90	0.1 0.0	0.1 0.0	0.1 0.0	0.2 0.0	0.2 0.0	0.5 0.0	0.9 0.0	1.6 0.0	0.8 0.0	0
	497	466	407	327	236	144	66	17	1	2161
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.
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Legend:

candelas
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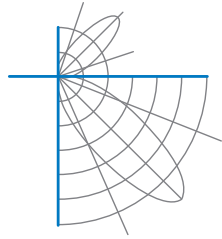
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.02	0.0	1578.32
87.0	0.00	-3.0	1575.75
84.0	0.07	-6.0	1566.24
81.0	0.05	-9.0	1554.51
78.0	2.83	-12.0	1538.97
75.0	16.32	-15.0	1520.65
72.0	29.45	-18.0	1497.09
69.0	115.77	-21.0	1468.32
66.0	288.37	-24.0	1436.07
63.0	501.72	-27.0	1399.75
60.0	687.16	-30.0	1358.97
57.0	779.08	-33.0	1313.97
54.0	865.07	-36.0	1265.07
51.0	943.39	-39.0	1212.71
48.0	1016.32	-42.0	1155.48
45.0	1084.61	-45.0	1092.55
42.0	1148.95	-48.0	1025.63
39.0	1207.34	-51.0	953.45
36.0	1262.02	-54.0	875.19
33.0	1312.20	-57.0	791.22
30.0	1358.22	-60.0	702.26
27.0	1399.75	-63.0	610.39
24.0	1435.67	-66.0	502.41
21.0	1468.59	-69.0	358.44
18.0	1496.62	-72.0	237.63
15.0	1520.37	-75.0	133.57
12.0	1539.45	-78.0	54.53
9.0	1554.76	-81.0	17.56
6.0	1566.48	-84.0	9.58
3.0	1575.44	-87.0	3.24
0.0	1578.32	-90.0	1.36

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.12	0.0	1578.32
87.0	5.35	-3.0	1573.97
84.0	28.70	-6.0	1567.12
81.0	88.06	-9.0	1558.32
78.0	147.43	-12.0	1543.38
75.0	206.79	-15.0	1523.46
72.0	306.99	-18.0	1500.24
69.0	407.19	-21.0	1472.40
66.0	507.39	-24.0	1441.84
63.0	602.80	-27.0	1405.99
60.0	695.80	-30.0	1364.57
57.0	788.80	-33.0	1320.83
54.0	876.10	-36.0	1269.88
51.0	952.00	-39.0	1215.85
48.0	1027.89	-42.0	1158.74
45.0	1094.88	-45.0	1094.88
42.0	1158.74	-48.0	1027.89
39.0	1215.85	-51.0	952.00
36.0	1269.88	-54.0	876.10
33.0	1320.83	-57.0	788.80
30.0	1364.57	-60.0	695.80
27.0	1405.99	-63.0	602.80
24.0	1441.84	-66.0	507.39
21.0	1472.40	-69.0	407.19
18.0	1500.24	-72.0	306.99
15.0	1523.46	-75.0	206.79
12.0	1543.38	-78.0	147.43
9.0	1558.32	-81.0	88.06
6.0	1567.12	-84.0	28.70
3.0	1573.97	-87.0	5.35
0.0	1578.32	-90.0	0.12

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



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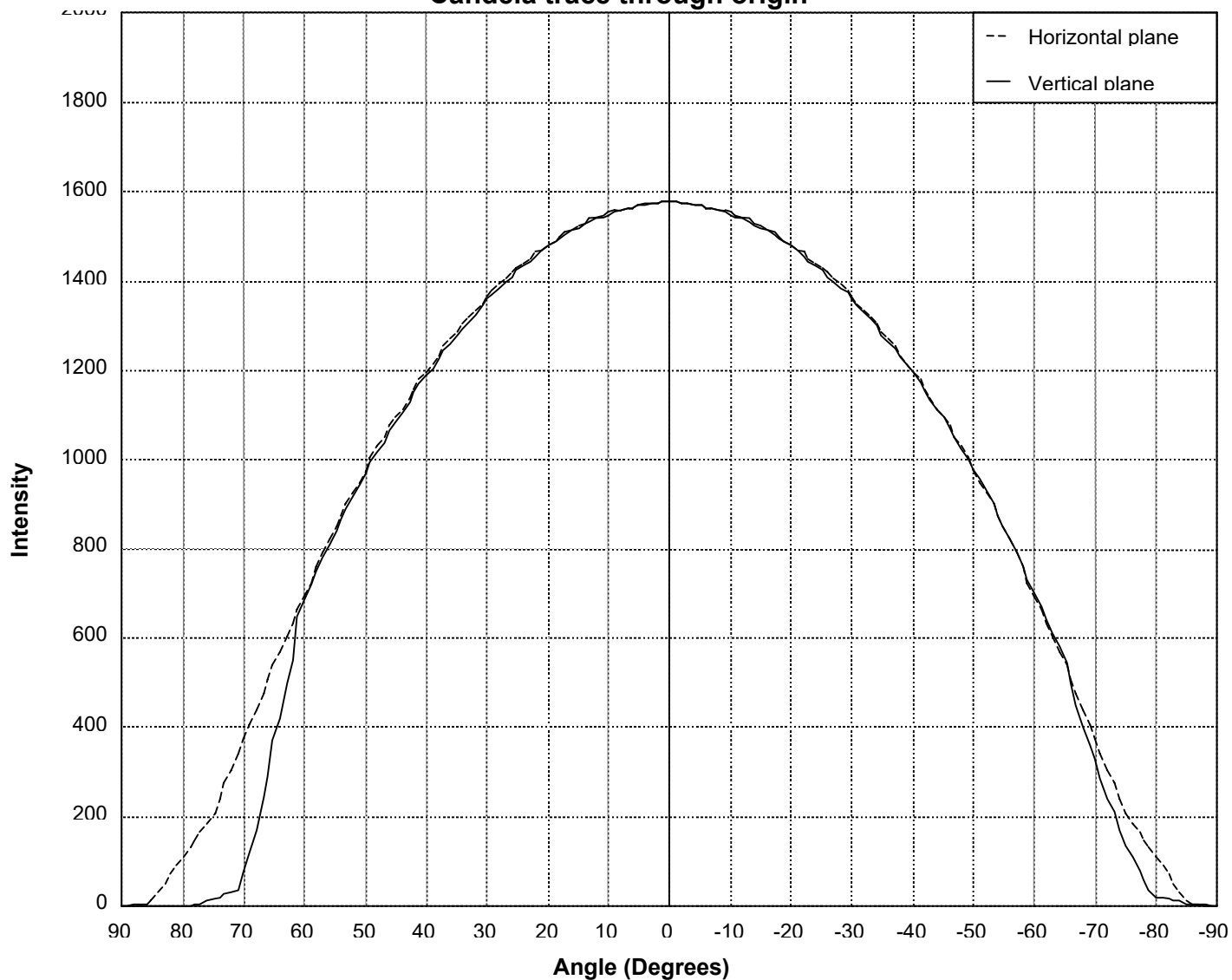
plastic reflector, clear glass enclosure in front of LEDs

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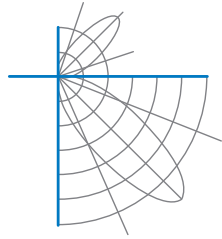
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Candela trace through origin



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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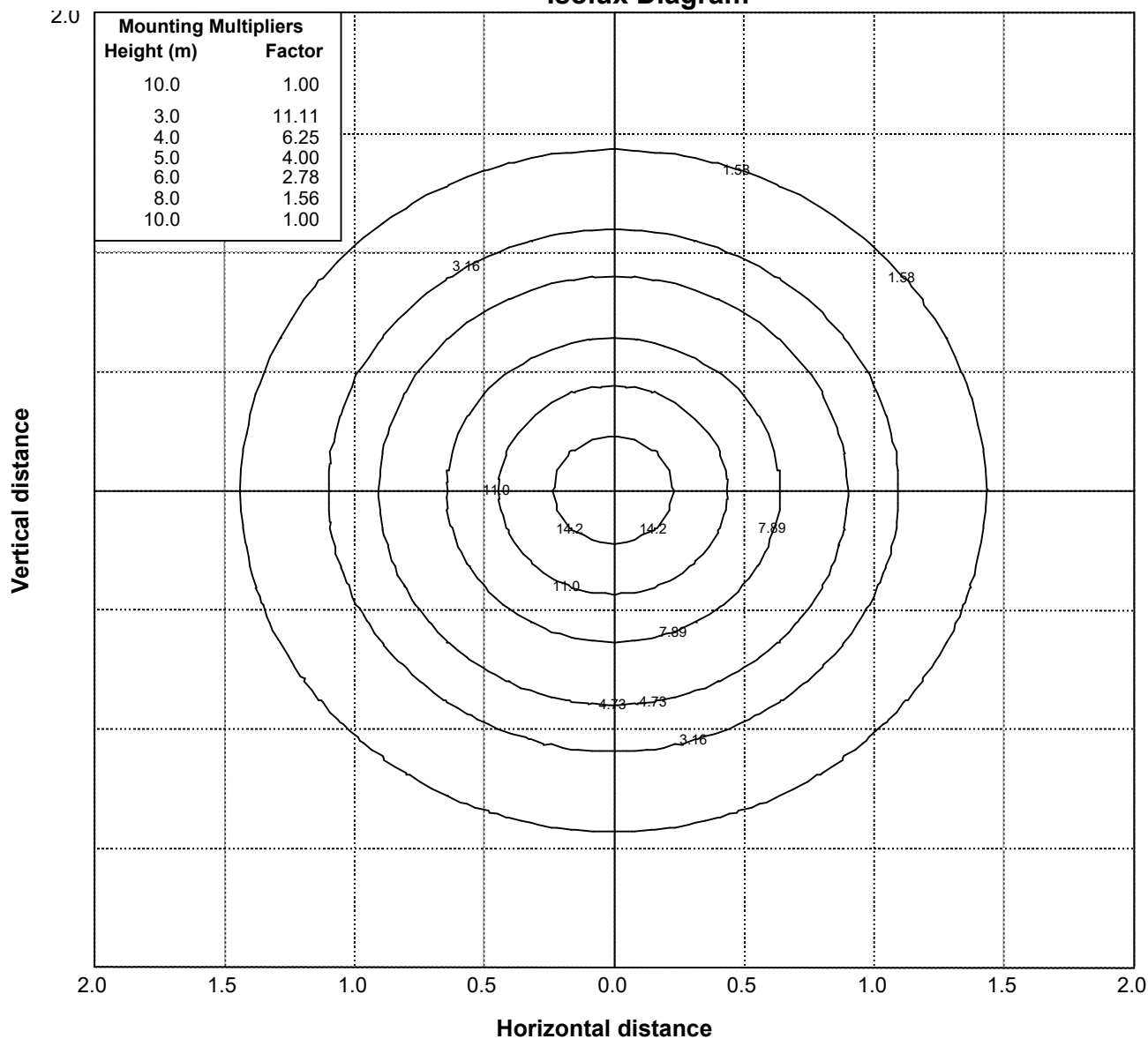
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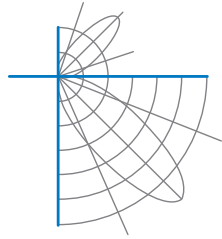
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Isolux Diagram



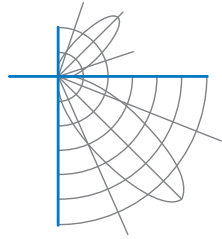
Note: The isolux levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height.
The isolux contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.
The isolux contour units are expressed as lux. The left and right sides of photometric data have been averaged.



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Test Distance 9.5 m
Test Temperature 24.9 °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.

This report must not be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST, or any agency of the Federal Government.