

Report of Test

LLIA002378-007

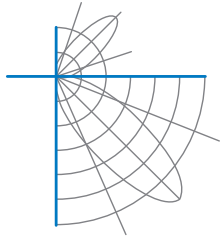
Catalog Number: SP-1200PS-50K - 800W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 6.978A, 826.9W, 0.987PF, 13.5%THD(i)



Performance Summary

Total Light Output	134616	lm	Illuminance at 10m	3826.0 lux
Luminaire Power	826.9	W	Beam Distance	1237.1 Meters (to 0.25 lux)
Luminous Efficacy	162.8	lm/W		
Beam Spread (50%)	24.4° V x 24.5° H		Maximum Intensity	382600 cd
Field Spread (10%)	57.1° V x 57.4° H			
NEMA Type	4H x 4V			

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 382600.0 cd
(Luminaire orientation as tested.) -0.5° vertical
0.0° horizontal

Beam Spread At 10% of max intensity 57.1° V x 57.4° H
At 50% of max intensity 24.4° V x 24.5° H
At 90% of max intensity 10.5° V x 10.2° H

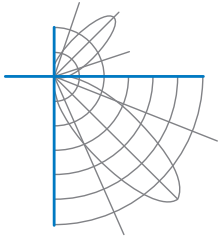
Beam Flux Total 134616 lm
To 10% of max intensity 94749 lm
To 50% of max intensity 41838 lm
To 90% of max intensity 9298 lm

Total Light Output 134616.2 lm

Signed:

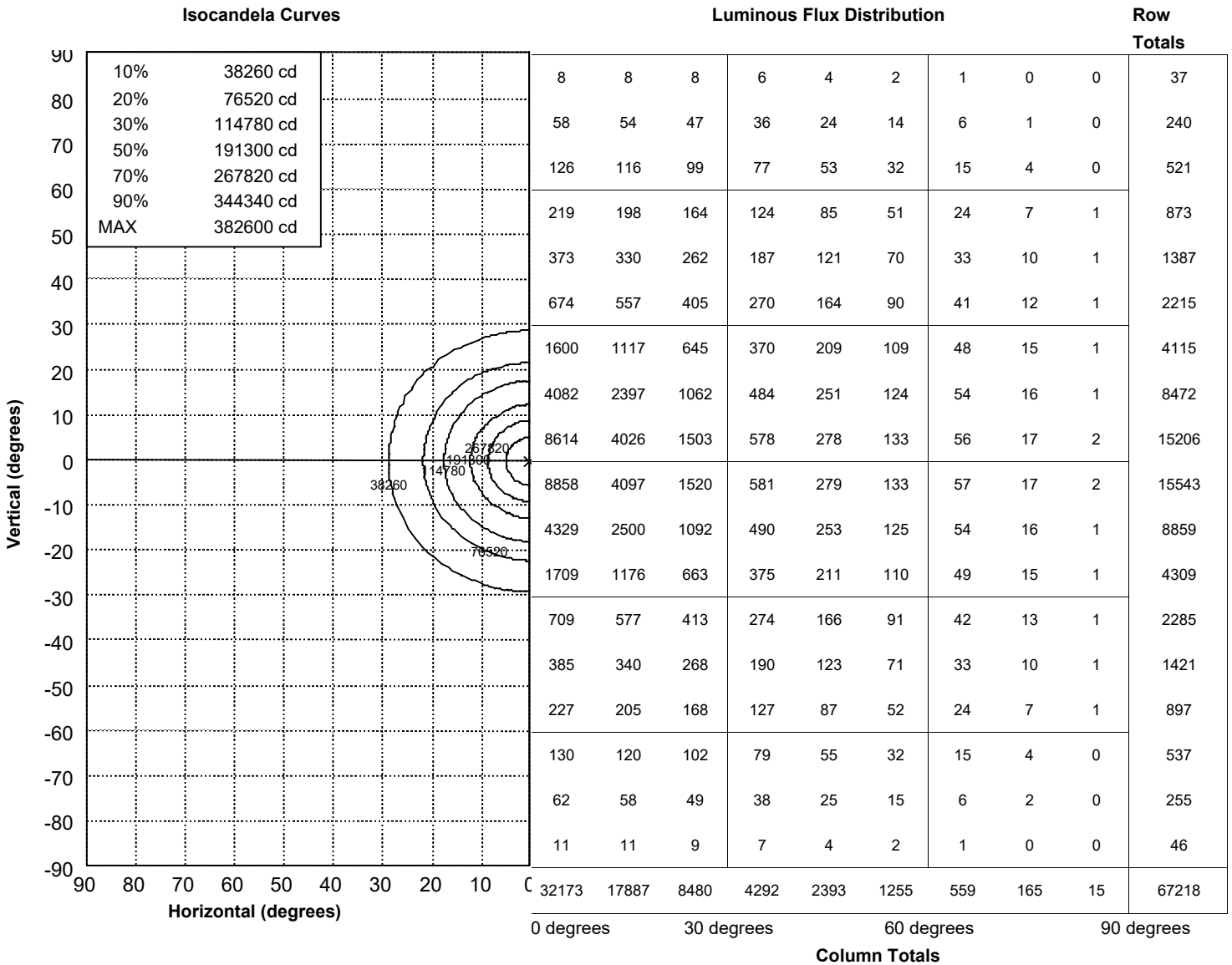
Authorized Signatory

Date of test 2-May-2024
Date of report 2-May-2024

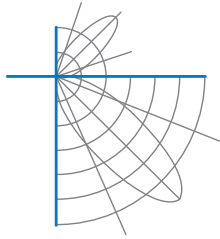


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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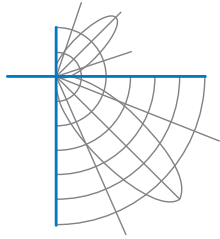
Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30			0			90	
-90	19.8 0.1	55.4 0.4	83.1 1.1	107.6 2.5	116.8 4.3	189.9 6.7	266.8 9.4	259.0 10.7	253.8 11.2	46
	54.8 0.2	163.4 1.5	473.8 6.4	856.6 15.0	1138.5 25.3	1493.9 37.6	1774.2 49.1	1948.2 57.5	2020.9 61.9	255
	88.3 0.3	453.7 4.0	1162.5 15.2	1836.0 32.5	2525.7 54.6	3154.0 78.9	3667.4 101.6	4051.1 119.7	4273.8 130.4	537
-60	119.1 0.6	847.1 7.1	1820.4 24.2	2937.9 51.6	4018.1 86.8	5050.0 126.7	6037.5 168.3	6879.7 204.6	7392.6 226.7	897
	146.2 0.9	1193.9 10.0	2542.8 33.3	4028.6 71.2	5618.4 123.0	7559.9 190.3	9651.6 268.0	11469.3 339.7	12573.0 384.8	1421
	168.8 1.1	1483.4 12.5	3170.0 41.5	5155.3 90.6	7637.5 165.9	10902.4 273.8	14775.1 413.3	19142.4 577.2	22622.3 708.5	2285
-30	186.1 1.3	1706.8 14.6	3666.9 48.6	6146.2 109.5	9657.6 211.4	14811.4 374.9	23282.2 663.5	38467.7 1176.0	54346.4 1708.8	4309
	197.9 1.4	1858.4 16.0	4020.2 53.8	6901.6 124.5	11515.7 252.9	19181.4 490.0	38165.4 1091.5	83471.7 2500.0	139842.2 4329.2	8859
	203.3 1.5	1935.5 16.7	4207.9 56.5	7322.4 132.9	12639.3 278.8	22606.4 581.1	53305.3 1520.0	136776.4 4097.3	312902.5 8857.8	15543
0	202.8 1.5	1934.3 16.7	4204.2 56.5	7311.5 132.7	12605.0 278.1	22495.5 578.2	52674.2 1502.7	134473.9 4025.8	302970.5 8614.2	15206
	196.5 1.4	1854.6 15.9	4007.8 53.6	6870.2 123.9	11440.1 251.2	18976.8 484.4	37134.6 1062.3	79891.0 2396.9	132007.6 4082.0	8472
	184.0 1.3	1700.5 14.5	3648.2 48.3	6099.6 108.7	9562.1 209.3	14633.3 370.2	22685.7 645.5	36530.2 1117.2	50783.0 1599.9	4115
30	166.2 1.1	1475.1 12.5	3147.7 41.2	5101.1 89.7	7538.9 163.8	10748.8 269.9	14516.1 405.3	18516.4 557.0	21554.0 674.3	2215
	143.6 0.8	1183.6 9.9	2521.0 33.0	3975.4 70.3	5540.2 121.2	7421.4 186.8	9425.6 261.9	11153.4 330.4	12187.0 372.8	1387
	116.8 0.5	835.0 7.0	1799.0 23.9	2892.5 50.9	3953.4 85.3	4945.2 124.1	5878.2 163.8	6663.2 198.3	7137.5 219.0	873
60	86.6 0.3	439.4 3.9	1136.9 14.9	1790.8 31.7	2468.2 53.3	3080.3 77.0	3568.4 98.8	3923.8 115.9	4120.6 125.6	521
	54.0 0.2	151.4 1.4	445.3 6.1	814.4 14.2	1069.0 23.9	1421.3 35.7	1679.6 46.6	1837.3 54.2	1890.2 57.8	240
	19.9 0.1	53.2 0.4	69.8 0.9	84.0 2.1	78.3 3.6	152.6 5.7	222.0 8.1	171.2 8.4	121.5 8.0	37
90	<p style="text-align: center;">15 165 559 1255 2393 4292 8480 17887 32173</p>									67218

Lumen Totals

Legend:

candelas
lumens

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.



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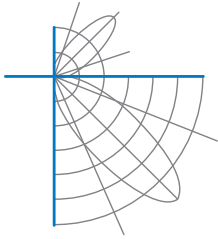
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	0	30	60	90	120	150	180	210	240	
-90	253.8 11.2	259.0 10.7	266.8 9.4	189.9 6.7	116.8 4.3	107.6 2.5	83.1 1.1	55.4 0.4	19.8 0.1	46
	2020.9 61.9	1948.2 57.5	1774.2 49.1	1493.9 37.6	1138.5 25.3	856.6 15.0	473.8 6.4	163.4 1.5	54.8 0.2	255
	4273.8 130.4	4051.1 119.7	3667.4 101.6	3154.0 78.9	2525.7 54.6	1836.0 32.5	1162.5 15.2	453.7 4.0	88.3 0.3	537
-60	7392.6 226.7	6879.7 204.6	6037.5 168.3	5050.0 126.7	4018.1 86.8	2937.9 51.6	1820.4 24.2	847.1 7.1	119.1 0.6	897
	12573.0 384.8	11469.3 339.7	9651.6 268.0	7559.9 190.3	5618.4 123.0	4028.6 71.2	2542.8 33.3	1193.9 10.0	146.2 0.9	1421
	22622.3 708.5	19142.4 577.2	14775.1 413.3	10902.4 273.8	7637.5 165.9	5155.3 90.6	3170.0 41.5	1483.4 12.5	168.8 1.1	2285
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	1890.2 57.8	1837.3 54.2	1679.6 46.6	1421.3 35.7	1069.0 23.9	814.4 14.2	445.3 6.1	151.4 1.4	54.0 0.2	240
	121.5 8.0	171.2 8.4	222.0 8.1	152.6 5.7	78.3 3.6	84.0 2.1	69.8 0.9	53.2 0.4	19.9 0.1	37
90	32173	17887	8480	4292	2393	1255	559	165	15	67218

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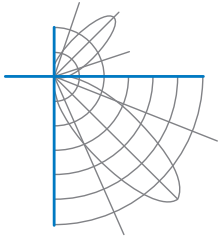
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.98	0.0	382500.00
87.0	2.07	-3.0	374000.00
84.0	215.87	-6.0	337600.00
81.0	742.18	-9.0	273800.00
78.0	1285.40	-12.0	201800.00
75.0	1885.89	-15.0	149400.00
72.0	2574.73	-18.0	113100.00
69.0	3214.49	-21.0	84912.37
66.0	3900.06	-24.0	62513.27
63.0	4631.99	-27.0	46065.59
60.0	5455.54	-30.0	34565.27
57.0	6420.90	-33.0	26709.84
54.0	7590.79	-36.0	21297.28
51.0	8947.75	-39.0	17553.10
48.0	10499.42	-42.0	14815.72
45.0	12286.15	-45.0	12661.93
42.0	14366.31	-48.0	10858.84
39.0	16934.06	-51.0	9261.90
36.0	20339.00	-54.0	7858.58
33.0	25241.07	-57.0	6649.97
30.0	32425.65	-60.0	5654.62
27.0	43021.15	-63.0	4799.43
24.0	58178.97	-66.0	4053.86
21.0	79240.19	-69.0	3355.75
18.0	106300.00	-72.0	2702.90
15.0	140500.00	-75.0	2028.79
12.0	188600.00	-78.0	1417.94
9.0	258300.00	-81.0	856.17
6.0	325700.00	-84.0	377.85
3.0	368700.00	-87.0	36.43
0.0	382500.00	-90.0	5.04

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	2.98	0.0	382500.00
87.0	123.03	-3.0	370050.00
84.0	377.68	-6.0	327375.00
81.0	899.65	-9.0	262950.00
78.0	1421.63	-12.0	196250.00
75.0	1943.61	-15.0	144900.00
72.0	2629.24	-18.0	110426.76
69.0	3314.87	-21.0	83227.80
66.0	4000.50	-24.0	61546.70
63.0	4855.80	-27.0	45589.05
60.0	5795.93	-30.0	34225.60
57.0	6736.06	-33.0	26197.77
54.0	7862.92	-36.0	21500.30
51.0	9363.23	-39.0	17735.69
48.0	10863.53	-42.0	14903.93
45.0	12772.78	-45.0	12772.78
42.0	14903.93	-48.0	10863.53
39.0	17735.69	-51.0	9363.23
36.0	21500.30	-54.0	7862.92
33.0	26197.77	-57.0	6736.06
30.0	34225.60	-60.0	5795.93
27.0	45589.05	-63.0	4855.80
24.0	61546.70	-66.0	4000.50
21.0	83227.80	-69.0	3314.87
18.0	110426.76	-72.0	2629.24
15.0	144900.00	-75.0	1943.61
12.0	196250.00	-78.0	1421.63
9.0	262950.00	-81.0	899.65
6.0	327375.00	-84.0	377.68
3.0	370050.00	-87.0	123.03
0.0	382500.00	-90.0	2.98

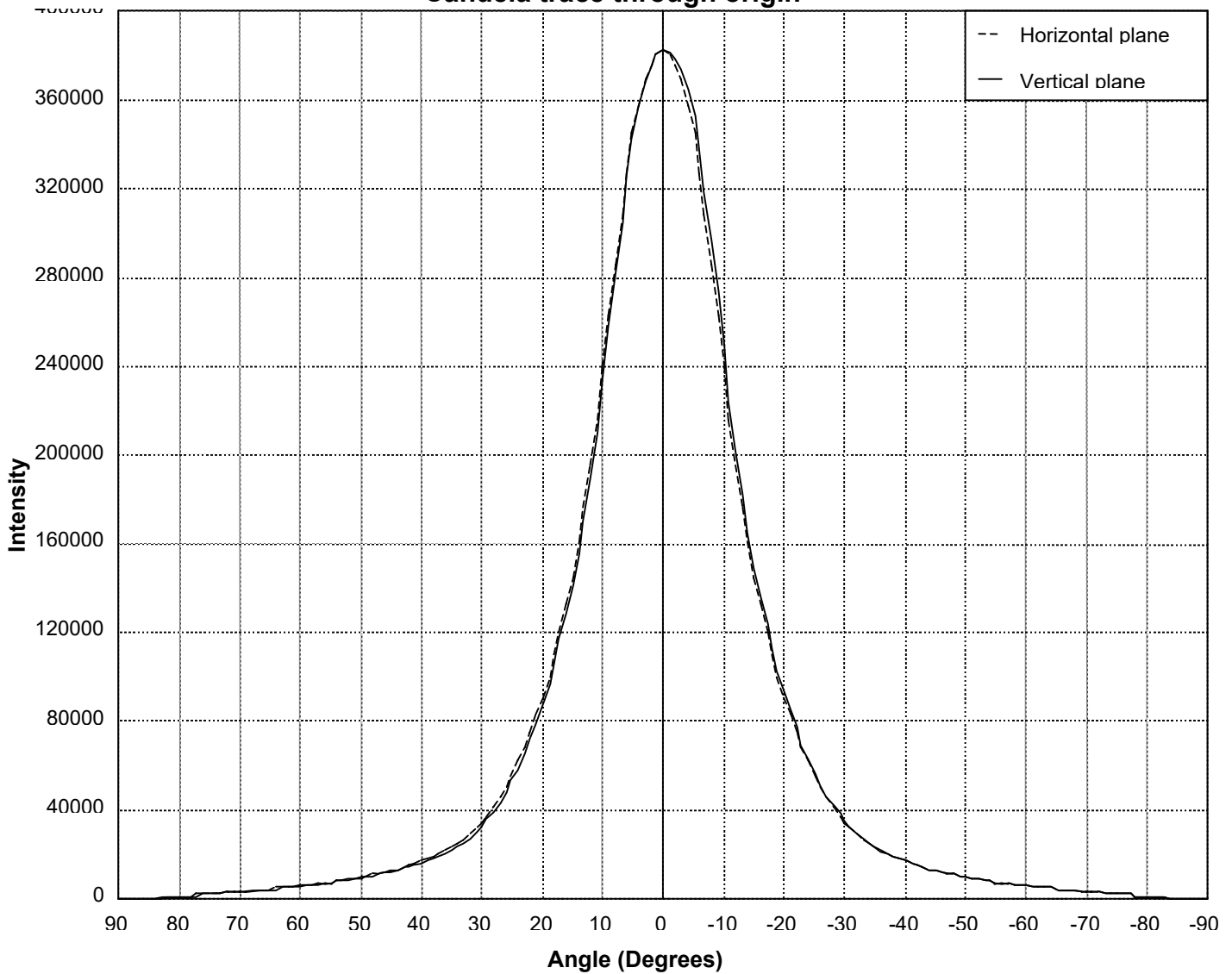
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



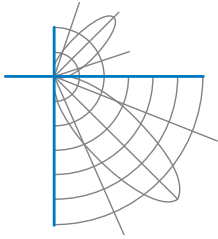
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Candela trace through origin



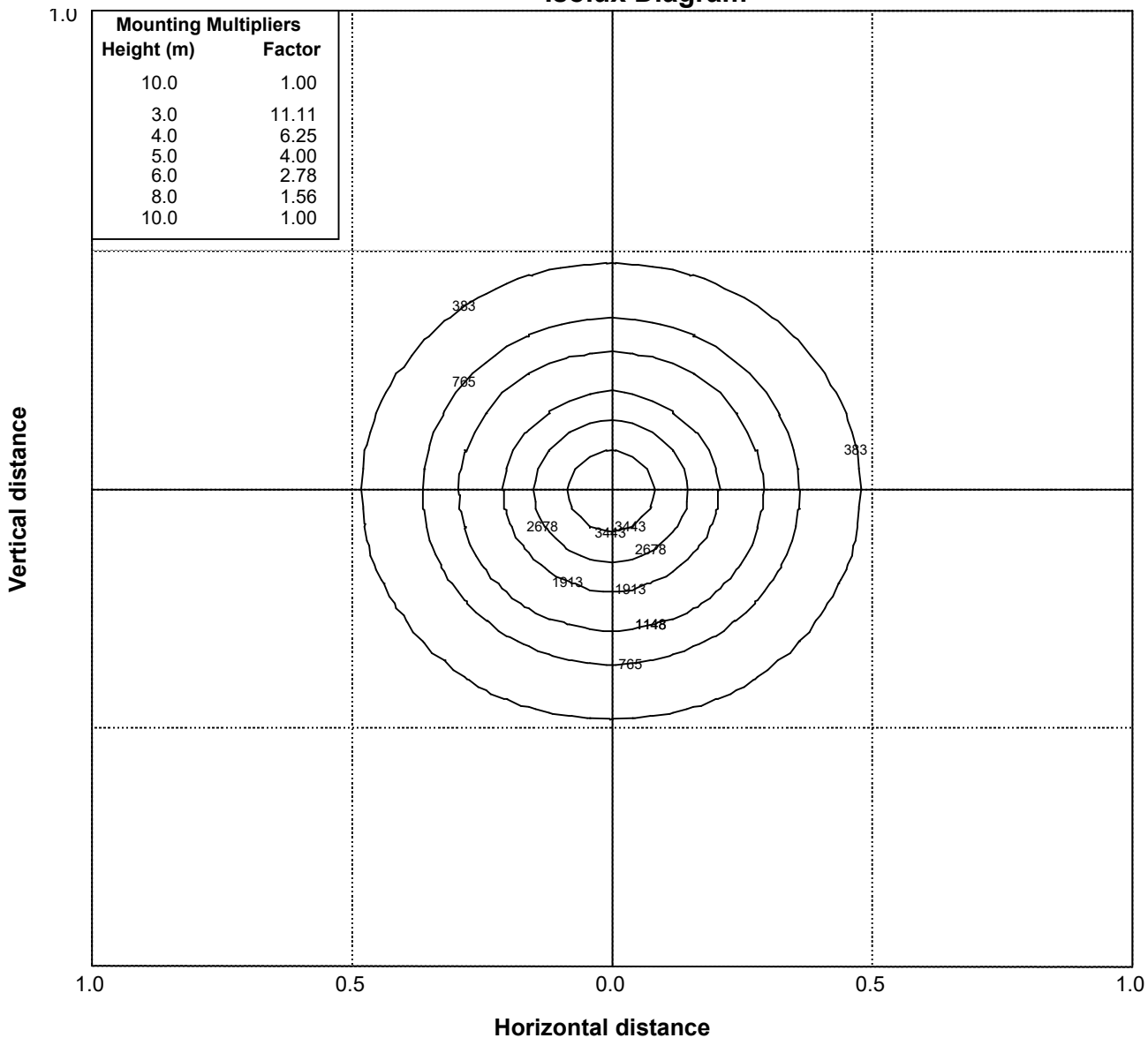
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



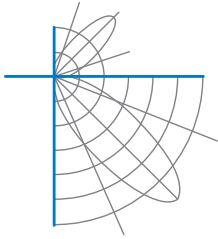
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Isolux Diagram

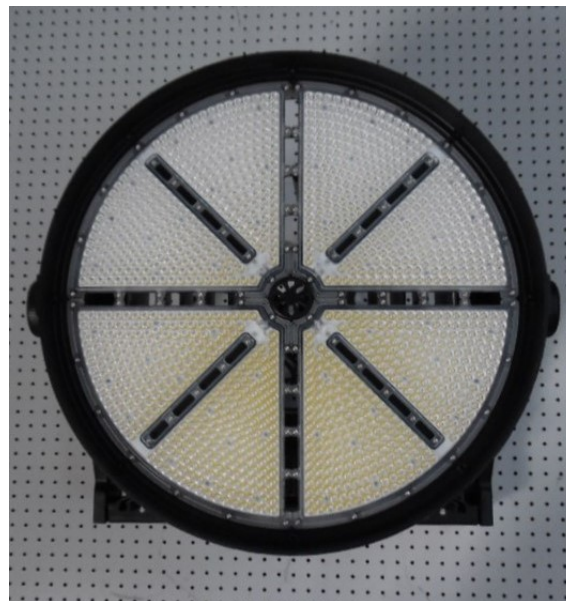


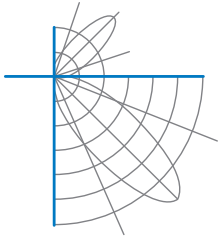
Note: The isolux levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height.
The isolux contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.
The isolux contour units are expressed as lux. The left and right sides of photometric data have been averaged.



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Test Distance 9.5 m
Test Temperature 25.4°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.