

Report of Test

LLIA002378-009

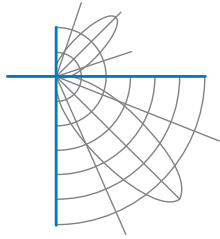
Catalog Number: SP-1200PS-50K - 1200W Setting
Pole mounted, cast aluminum housing, clear enclosure.
1232 white LEDs with plastic optics in front of each.
Two uPowerTek BLD-600-C420-ENU LED drivers
120.0Vac, 60.00Hz, 10.253A, 1221.4W, 0.993PF, 10.4%THD(i)



Performance Summary

Total Light Output	182031	lm	Illuminance at 10m	4981.0 lux
Luminaire Power	1222.0	W	Beam Distance	1411.5 Meters (to 0.25 lux)
Luminous Efficacy	149.0	lm/W		
Beam Spread (50%)	24.6° V x 24.6° H		Maximum Intensity	498100 cd
Field Spread (10%)	58.6° V x 59.0° 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 498100.0 cd
(Luminaire orientation as tested.) -0.5° vertical
0.0° horizontal

Beam Spread	At 10% of max intensity	58.6° V	x	59.0° H
	At 50% of max intensity	24.6° V	x	24.6° H
	At 90% of max intensity	10.2° V	x	9.8° H

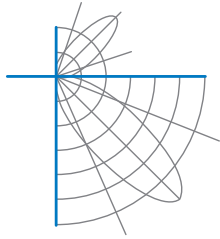
Beam Flux	Total	182031 lm
	To 10% of max intensity	126547 lm
	To 50% of max intensity	54492 lm
	To 90% of max intensity	10930 lm

Total Light Output 182031.3 lm

Signed:

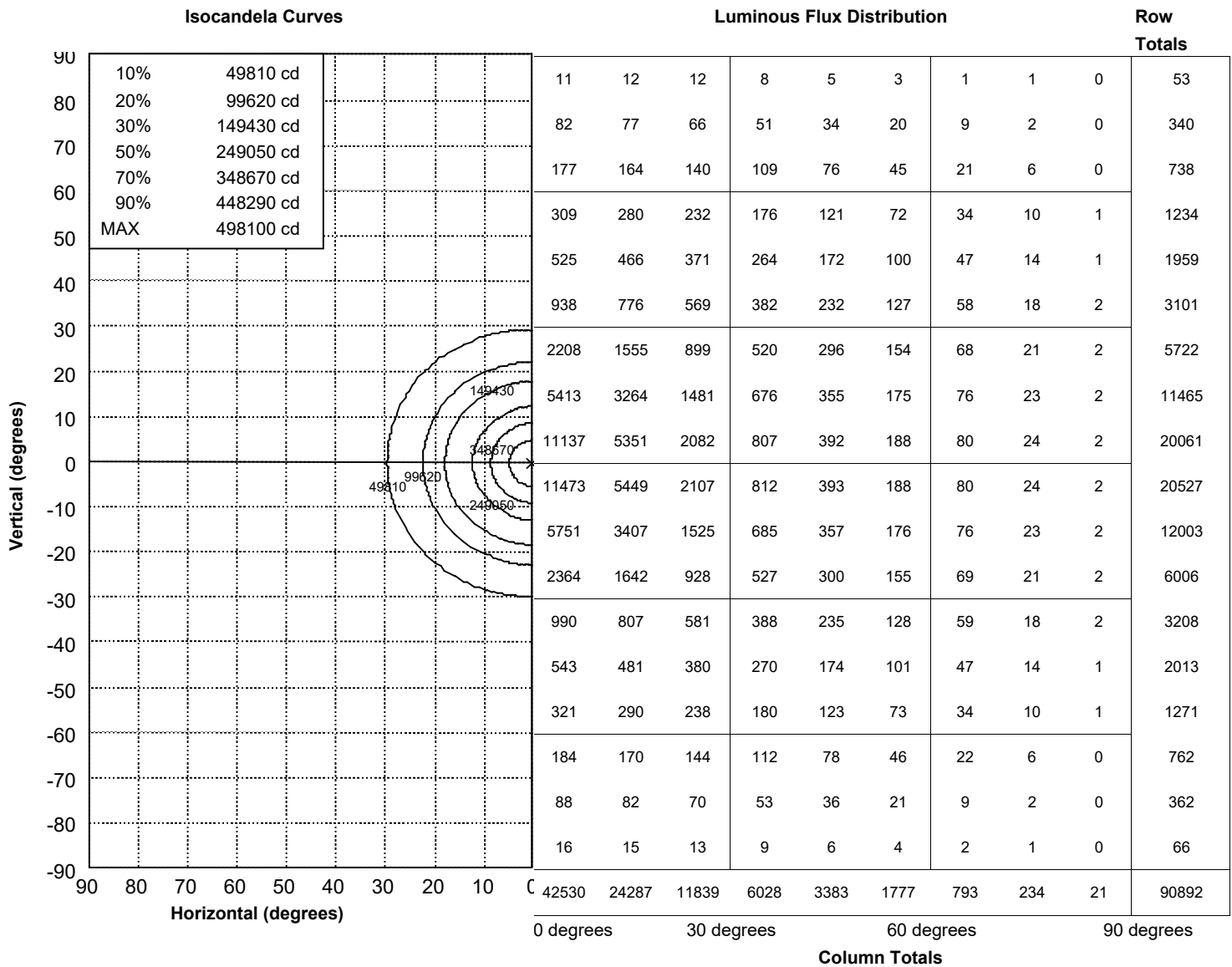
Authorized Signatory

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

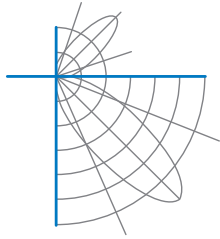


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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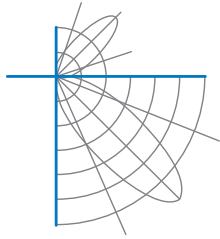
Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	120	150	
-90	28.4 0.1	80.3 0.6	120.0 1.6	154.5 3.6	167.1 6.1	269.3 9.5	379.5 13.4	369.2 15.2	363.2 15.9	66
	78.7 0.3	237.1 2.2	678.1 9.2	1220.6 21.4	1614.7 36.0	2127.0 53.5	2523.6 69.8	2767.7 81.6	2860.5 87.6	362
	127.1 0.5	648.8 5.8	1657.1 21.7	2613.1 46.2	3588.3 77.5	4477.4 112.0	5198.7 144.0	5736.1 169.5	6049.8 184.5	762
-60	171.4 0.8	1204.8 10.1	2591.2 34.5	4171.9 73.3	5698.5 123.0	7158.1 179.6	8552.5 238.5	9757.2 290.2	10476.5 321.3	1271
	210.5 1.2	1695.0 14.2	3610.1 47.3	5712.0 100.9	7958.6 174.3	10721.9 269.9	13707.7 380.4	16265.2 481.1	17786.5 543.3	2013
	243.1 1.6	2103.2 17.8	4494.1 58.8	7303.6 128.4	10827.8 235.2	15464.1 388.0	20802.3 581.3	26735.3 807.2	31542.6 989.8	3208
-30	268.1 1.9	2417.0 20.6	5195.6 68.9	8703.3 155.1	13700.7 299.5	20833.1 527.0	32509.3 927.8	53870.1 1641.9	75581.0 2363.7	6006
	285.0 2.0	2629.3 22.6	5695.0 76.1	9767.6 176.3	16295.4 357.2	26786.9 684.9	53488.4 1525.1	114183.0 3407.4	186288.8 5751.0	12003
	292.9 2.1	2737.2 23.6	5961.1 80.0	10359.1 188.1	17841.8 392.8	31526.4 811.7	74225.2 2107.3	182308.8 5448.6	404195.7 11472.9	20527
0	292.3 2.1	2735.1 23.6	5954.6 79.9	10342.1 187.8	17791.5 391.7	31348.1 807.0	73300.5 2082.2	179107.6 5350.6	390540.7 11136.5	20061
	283.2 2.0	2623.2 22.5	5673.6 75.8	9718.3 175.4	16175.5 354.5	26466.5 676.2	51912.7 1481.1	109236.8 3263.6	175754.7 5413.4	11465
	265.4 1.8	2407.3 20.5	5164.6 68.4	8628.4 153.7	13544.6 296.1	20557.4 519.5	31559.9 899.5	50988.9 1554.8	70437.9 2207.7	5722
30	239.7 1.6	2090.8 17.7	4459.4 58.4	7219.8 126.9	10671.0 231.8	15215.5 381.7	20392.0 568.7	25789.4 776.3	29925.9 937.8	3101
	207.0 1.2	1680.2 14.1	3575.8 46.8	5631.6 99.5	7836.7 171.5	10496.7 264.3	13344.1 370.5	15768.1 466.4	17187.8 524.8	1959
	168.3 0.8	1187.6 10.0	2557.7 34.0	4102.3 72.1	5602.7 120.9	6997.6 175.6	8307.4 231.6	9411.6 280.2	10070.9 309.1	1234
60	124.7 0.4	628.8 5.6	1618.9 21.2	2543.0 45.1	3505.6 75.7	4370.3 109.2	5055.3 139.9	5554.1 163.9	5826.2 177.4	738
	77.6 0.3	220.2 2.1	637.1 8.7	1157.4 20.2	1515.8 34.0	2020.4 50.8	2383.2 66.0	2606.6 76.8	2670.4 81.7	340
	28.5 0.1	77.3 0.6	100.9 1.4	120.8 3.0	112.0 5.1	216.1 8.1	315.2 11.5	241.3 11.9	172.2 11.3	53
90	<p style="text-align: center;">21 234 793 1777 3383 6028 11839 24287 42530</p>									90892

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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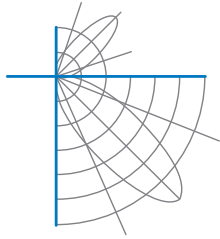
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	0	30	60	90	120	150	180	210	240	
-90	363.2 15.9	369.2 15.2	379.5 13.4	269.3 9.5	167.1 6.1	154.5 3.6	120.0 1.6	80.3 0.6	28.4 0.1	66
	2860.5 87.6	2767.7 81.6	2523.6 69.8	2127.0 53.5	1614.7 36.0	1220.6 21.4	678.1 9.2	237.1 2.2	78.7 0.3	362
	6049.8 184.5	5736.1 169.5	5198.7 144.0	4477.4 112.0	3588.3 77.5	2613.1 46.2	1657.1 21.7	648.8 5.8	127.1 0.5	762
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	172.2 11.3	241.3 11.9	315.2 11.5	216.1 8.1	112.0 5.1	120.8 3.0	100.9 1.4	77.3 0.6	28.5 0.1	53
90	42530	24287	11839	6028	3383	1777	793	234	21	90892

Lumen Totals

Legend:

candelas
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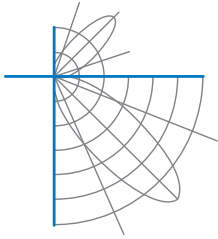
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	497900.22
87.0	3.60	-3.0	485700.00
84.0	300.20	-6.0	437400.00
81.0	1049.89	-9.0	355400.00
78.0	1819.75	-12.0	265200.00
75.0	2656.67	-15.0	199100.00
72.0	3627.17	-18.0	152700.00
69.0	4536.06	-21.0	116200.00
66.0	5510.38	-24.0	86640.57
63.0	6535.41	-27.0	64456.95
60.0	7696.19	-30.0	48432.76
57.0	9050.54	-33.0	37327.59
54.0	10706.39	-36.0	29733.14
51.0	12637.03	-39.0	24565.49
48.0	14841.93	-42.0	20862.32
45.0	17324.34	-45.0	17931.18
42.0	20162.78	-48.0	15405.69
39.0	23619.53	-51.0	13146.82
36.0	28230.50	-54.0	11149.11
33.0	35033.28	-57.0	9418.02
30.0	45109.61	-60.0	7999.88
27.0	59839.42	-63.0	6788.94
24.0	80468.07	-66.0	5733.38
21.0	108200.00	-69.0	4748.15
18.0	143100.00	-72.0	3828.91
15.0	186600.00	-75.0	2864.95
12.0	246500.00	-78.0	2013.85
9.0	333300.00	-81.0	1219.45
6.0	420000.00	-84.0	541.19
3.0	477600.00	-87.0	53.21
0.0	497900.22	-90.0	7.04

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	4.08	0.0	497900.22
87.0	177.14	-3.0	479100.00
84.0	538.83	-6.0	422500.00
81.0	1275.17	-9.0	340400.00
78.0	2011.50	-12.0	256875.00
75.0	2747.84	-15.0	192450.00
72.0	3720.60	-18.0	148750.00
69.0	4693.36	-21.0	113751.31
66.0	5666.13	-24.0	85229.83
63.0	6875.83	-27.0	63666.48
60.0	8204.01	-30.0	47891.08
57.0	9532.19	-33.0	36527.02
54.0	11127.47	-36.0	29974.36
51.0	13256.93	-39.0	24780.26
48.0	15386.40	-42.0	20944.72
45.0	18023.38	-45.0	18023.38
42.0	20944.72	-48.0	15386.40
39.0	24780.26	-51.0	13256.93
36.0	29974.36	-54.0	11127.47
33.0	36527.02	-57.0	9532.19
30.0	47891.08	-60.0	8204.01
27.0	63666.48	-63.0	6875.83
24.0	85229.83	-66.0	5666.13
21.0	113751.31	-69.0	4693.36
18.0	148750.00	-72.0	3720.60
15.0	192450.00	-75.0	2747.84
12.0	256875.00	-78.0	2011.50
9.0	340400.00	-81.0	1275.17
6.0	422500.00	-84.0	538.83
3.0	479100.00	-87.0	177.14
0.0	497900.22	-90.0	4.08

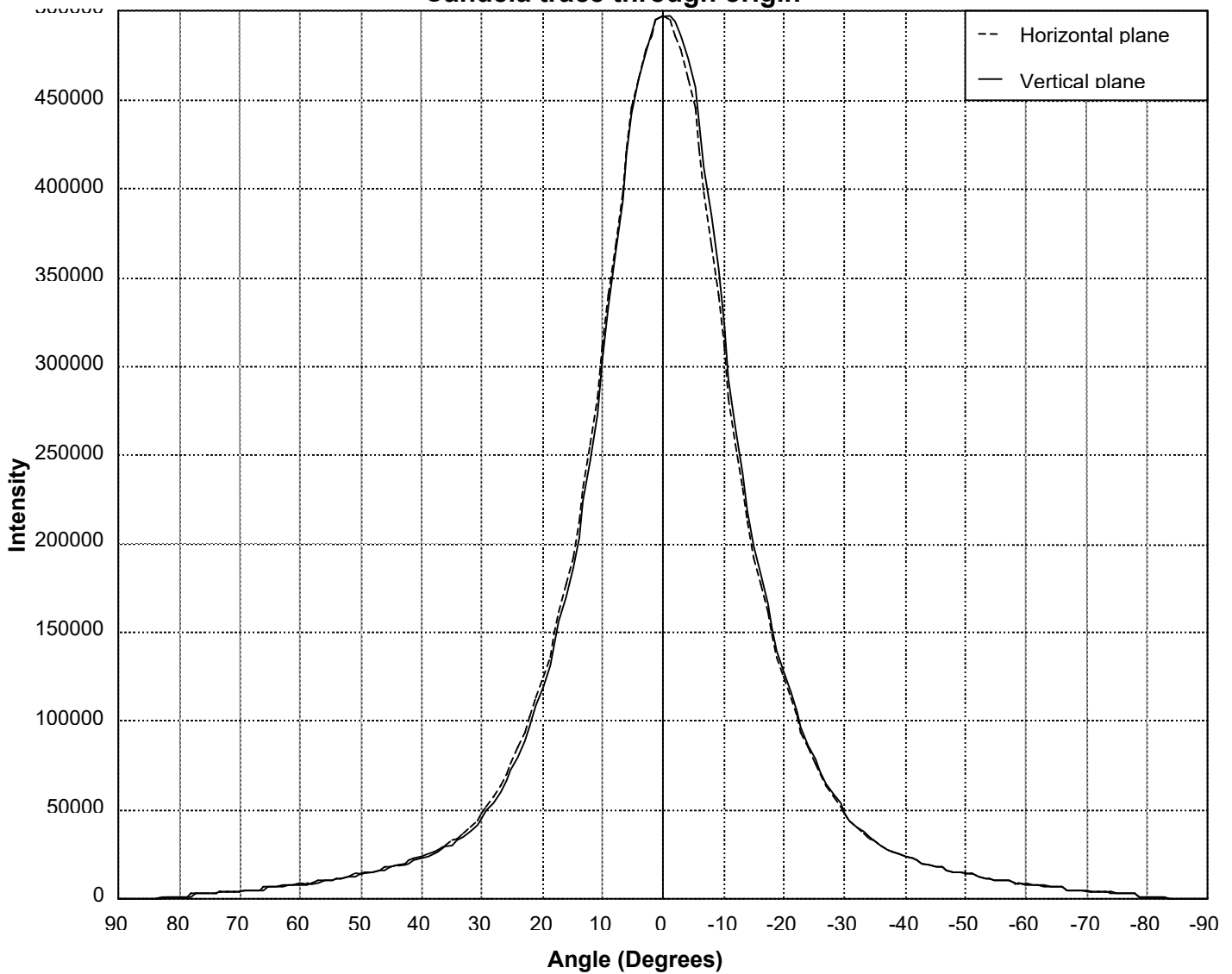
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



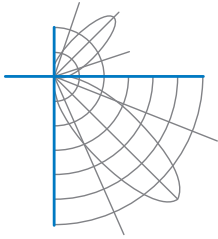
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Candela trace through origin



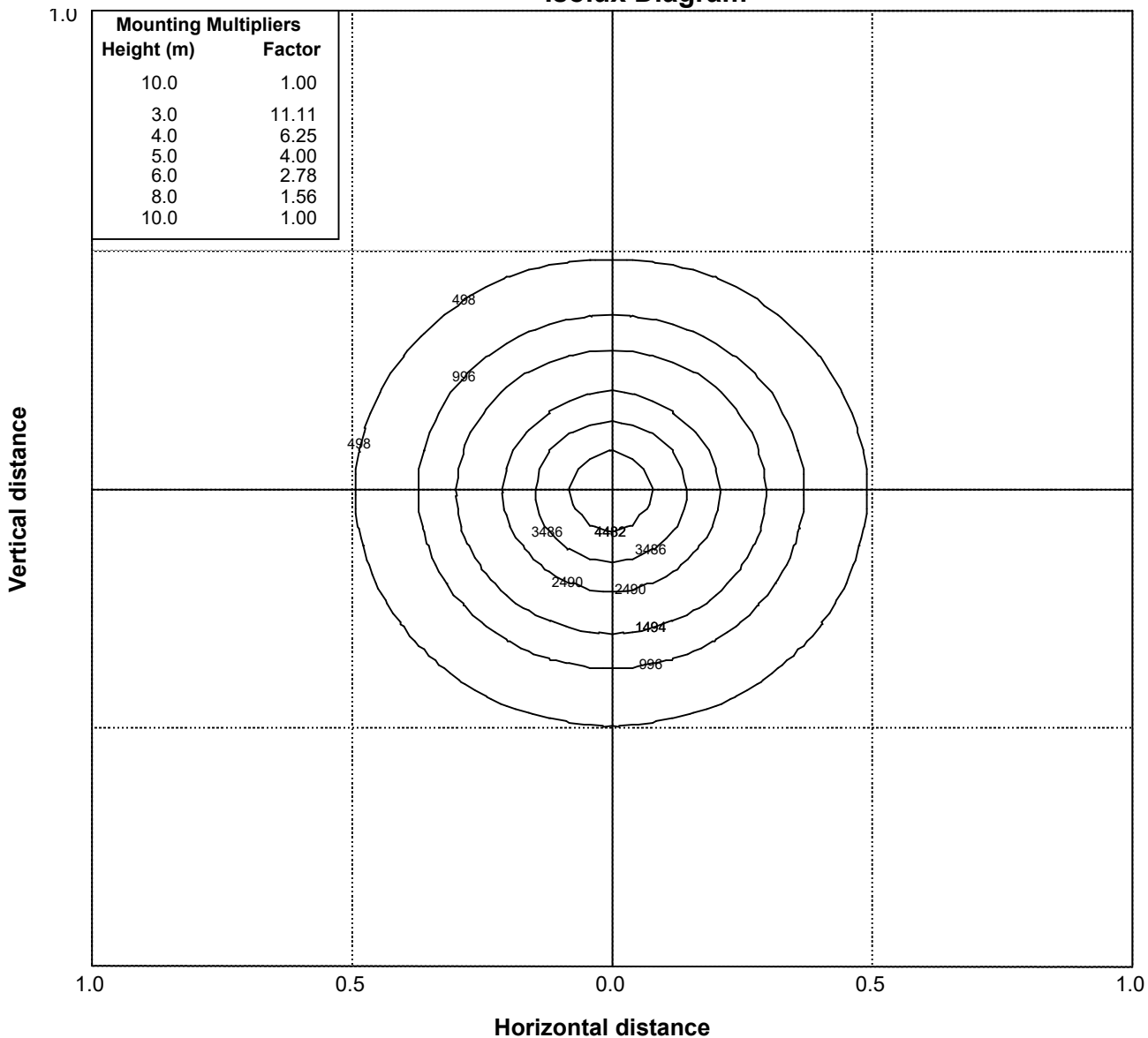
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



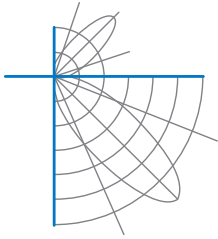
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Isolux Diagram

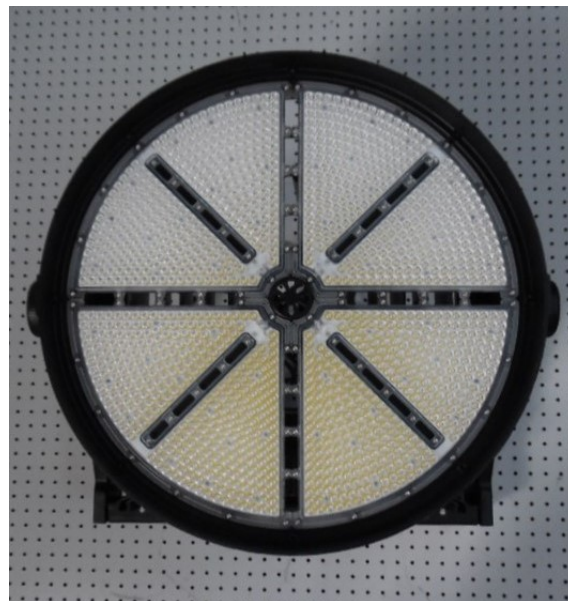


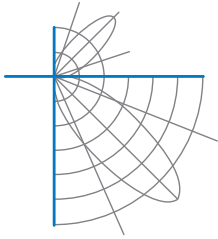
Note: The isolux levels are based on a mounting height of H = 10.0 metres. Grid values show multiples of mounting height.
 The isolux contours are set to 10%, 20%, 30%, 50%, 70%, 90% of the maximum.
 The isolux contour units are expressed as lux. The left and right sides of photometric data have been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



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Test Distance 9.5 m
Test Temperature 25.3°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.