

# Report of Test

## LLIA002378-006

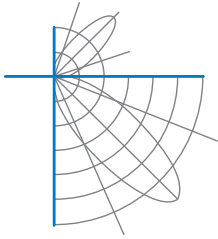
Catalog Number: SP-750PS-50K - 750W Setting  
Pole mounted, cast aluminum housing, clear plastic enclosure.  
960 white LEDs with plastic optics in front of each.  
One uPowerTek BLD-700-C420-ENU LED driver  
119.9Vac, 60.00Hz, 6.421A, 765.1W, 0.994PF, 9.0%THD(i)



### Performance Summary

Total Light Output	117009	lm	Illuminance at 10m	2378.0 lux
Luminaire Power	765.1	W	Beam Distance	975.3 Meters (to 0.25 lux)
Luminous Efficacy	152.9	lm/W	Maximum Intensity	237800 cd
Beam Spread (50%)	33.6° V x 33.6° H			
Field Spread (10%)	65.9° V x 66.0° H			
NEMA Type	5H x 5V			

**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 237800.0 cd  
(Luminaire orientation as tested.) -0.5° vertical  
0.0° horizontal

Beam Spread	At 10% of max intensity	65.9° V	x	66.0° H
	At 50% of max intensity	33.6° V	x	33.6° H
	At 90% of max intensity	14.0° V	x	14.1° H

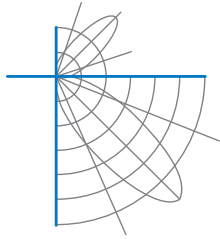
Beam Flux	Total	117009 lm
	To 10% of max intensity	87616 lm
	To 50% of max intensity	48041 lm
	To 90% of max intensity	10662 lm

Total Light Output 117008.8 lm

Signed:

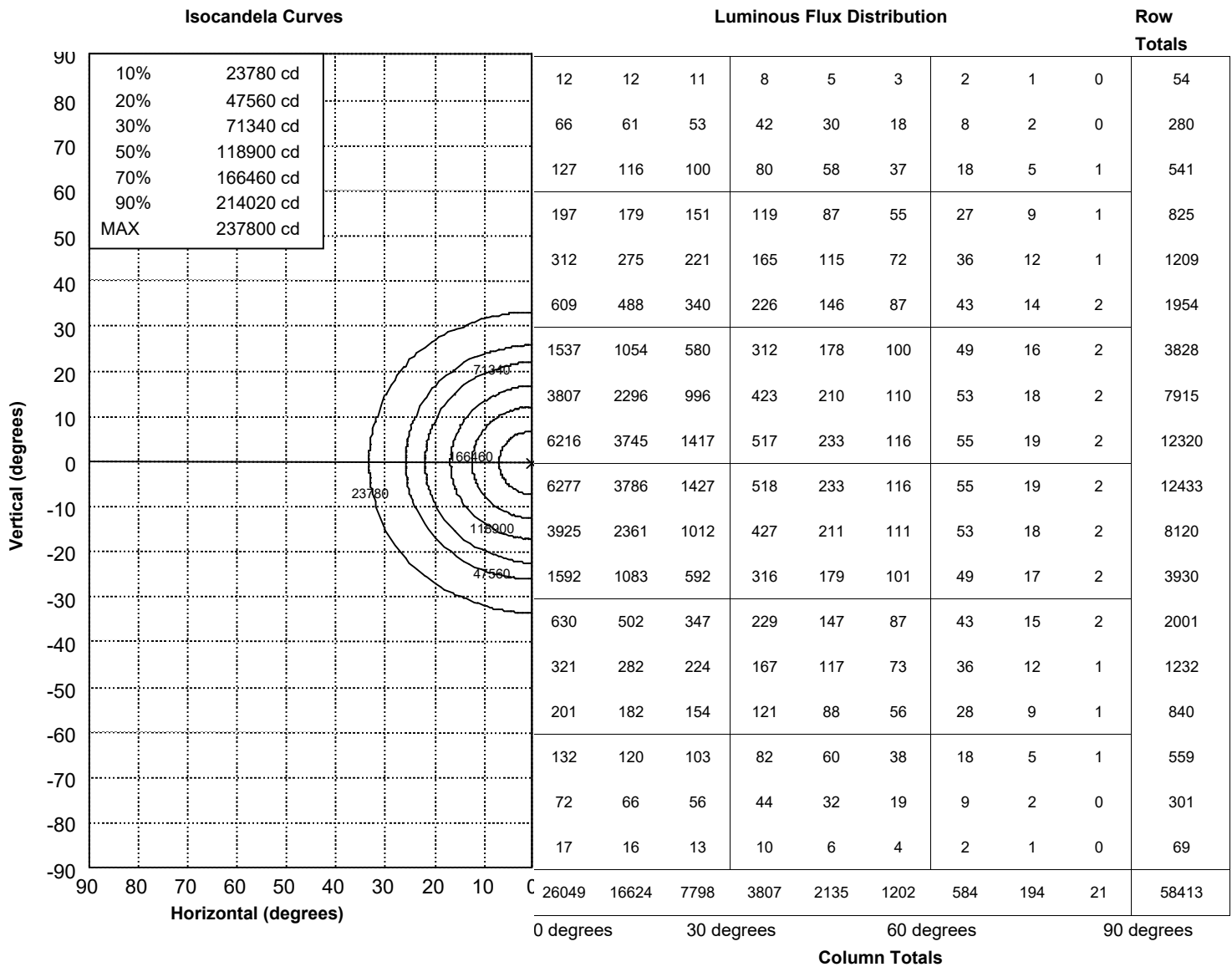
\_\_\_\_\_  
Authorized Signatory

Date of test 22-May-2024  
Date of report 23-May-2024

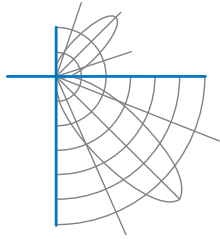


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Note: Left and right sides of photometric data have been averaged.  
Lumen values are tabulated as absolute lumen values.  
Candela values are tabulated as absolute candela values.



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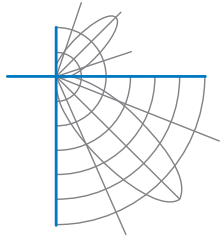
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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30			0			90	
-90	34.6 0.1	93.8 0.8	139.9 1.9	170.9 3.9	169.2 6.4	284.4 9.9	381.2 13.4	410.1 15.7	428.8 17.0	69
	98.5 0.4	276.8 2.5	636.3 8.5	1090.2 19.1	1463.0 31.6	1782.1 44.4	2049.7 56.4	2252.5 65.9	2383.0 71.8	301
	159.6 0.6	626.2 5.4	1412.2 18.4	2157.2 37.8	2794.1 60.1	3299.1 82.4	3722.7 102.9	4081.5 120.2	4351.7 131.8	559
-60	216.0 0.9	1060.0 8.9	2139.7 27.9	3192.2 55.8	4095.0 88.2	4854.0 121.4	5546.6 154.0	6145.2 182.4	6559.1 200.9	840
	265.8 1.2	1442.8 12.0	2793.8 36.4	4141.9 72.6	5387.6 116.7	6638.4 167.0	8018.7 224.4	9386.4 281.6	10307.7 320.5	1232
	307.6 1.5	1762.0 14.6	3330.7 43.5	4986.6 87.5	6787.0 147.0	9048.4 228.6	12263.1 347.2	16362.3 501.6	19731.3 629.8	2001
-30	339.9 1.8	2007.7 16.6	3743.8 49.1	5684.1 100.6	8148.1 179.1	12393.2 316.1	20623.8 592.1	35124.8 1083.3	49719.6 1591.5	3930
	361.8 1.9	2173.4 18.0	4024.0 53.0	6196.1 110.7	9545.2 211.3	16631.2 427.0	35501.3 1011.8	78585.7 2361.3	131824.9 3925.2	8120
	372.3 2.0	2255.1 18.7	4165.5 55.1	6476.0 116.4	10441.9 232.9	20073.5 518.4	50004.1 1427.3	130663.3 3785.7	214851.3 6276.6	12433
0	371.5 2.0	2252.0 18.6	4161.8 55.0	6472.5 116.4	10425.7 232.5	20006.4 516.6	49664.9 1417.2	129170.8 3744.9	212762.7 6216.2	12320
	359.4 1.9	2164.4 17.9	4012.2 52.9	6183.6 110.4	9501.0 210.2	16471.9 423.0	34943.1 995.7	76182.8 2295.8	127394.8 3807.0	7915
	336.3 1.8	1993.7 16.5	3721.4 48.8	5656.2 100.1	8095.0 177.8	12234.9 312.1	20197.3 580.1	34254.8 1054.1	48173.4 1537.1	3828
30	303.2 1.5	1743.8 14.4	3297.9 43.1	4942.6 86.7	6734.5 145.8	8939.4 225.8	12011.0 340.0	15885.6 487.5	19056.7 609.4	1954
	261.2 1.2	1421.5 11.8	2753.8 35.9	4079.4 71.5	5333.7 115.4	6574.2 165.2	7900.3 220.8	9180.0 275.3	10033.6 311.8	1209
	211.8 0.9	1037.0 8.7	2098.9 27.4	3119.1 54.6	4018.0 86.5	4770.9 119.3	5457.1 151.4	6038.2 179.1	6437.6 196.9	825
60	156.4 0.6	602.4 5.2	1366.5 17.8	2083.4 36.5	2708.3 58.2	3196.0 79.8	3602.2 99.6	3942.8 116.2	4195.6 127.2	541
	96.8 0.3	258.1 2.3	590.4 8.0	1024.5 17.9	1384.8 29.8	1670.2 41.7	1913.7 52.6	2090.8 61.2	2199.2 66.4	280
	34.5 0.1	89.5 0.7	119.5 1.6	128.7 3.3	95.3 5.2	216.1 8.3	305.8 11.4	266.6 12.3	152.4 11.6	54
90	Lumen Totals									58413

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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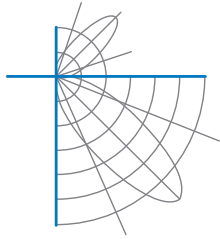
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	2383.0 71.8	2252.5 65.9	2049.7 56.4	1782.1 44.4	1463.0 31.6	1090.2 19.1	636.3 8.5	276.8 2.5	98.5 0.4	301
	4351.7 131.8	4081.5 120.2	3722.7 102.9	3299.1 82.4	2794.1 60.1	2157.2 37.8	1412.2 18.4	626.2 5.4	159.6 0.6	559
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	10307.7 320.5	9386.4 281.6	8018.7 224.4	6638.4 167.0	5387.6 116.7	4141.9 72.6	2793.8 36.4	1442.8 12.0	265.8 1.2	1232
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	10033.6 311.8	9180.0 275.3	7900.3 220.8	6574.2 165.2	5333.7 115.4	4079.4 71.5	2753.8 35.9	1421.5 11.8	261.2 1.2	1209
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	2199.2 66.4	2090.8 61.2	1913.7 52.6	1670.2 41.7	1384.8 29.8	1024.5 17.9	590.4 8.0	258.1 2.3	96.8 0.3	280
	152.4 11.6	266.6 12.3	305.8 11.4	216.1 8.3	95.3 5.2	128.7 3.3	119.5 1.6	89.5 0.7	34.5 0.1	54
90	26049	16624	7798	3807	2135	1202	584	194	21	58413

**Lumen Totals**

Legend:

candelas
lumens

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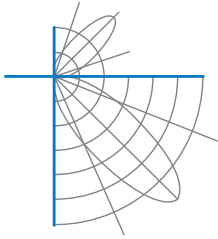
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**Candela trace through origin.**

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	237800.00
87.0	6.54	-3.0	234100.00
84.0	341.87	-6.0	221800.00
81.0	1020.16	-9.0	201200.00
78.0	1624.30	-12.0	173300.00
75.0	2214.26	-15.0	141000.00
72.0	2822.75	-18.0	108200.00
69.0	3420.35	-21.0	79666.88
66.0	4038.11	-24.0	58010.68
63.0	4653.70	-27.0	42670.63
60.0	5310.18	-30.0	31773.84
57.0	6001.01	-33.0	24068.93
54.0	6775.26	-36.0	18699.31
51.0	7682.56	-39.0	14994.35
48.0	8776.33	-42.0	12383.70
45.0	10165.62	-45.0	10457.33
42.0	11987.84	-48.0	8992.25
39.0	14466.55	-51.0	7839.04
36.0	18017.75	-54.0	6904.49
33.0	23243.97	-57.0	6120.42
30.0	30788.57	-60.0	5435.59
27.0	41359.85	-63.0	4798.74
24.0	55964.91	-66.0	4207.14
21.0	76315.78	-69.0	3598.10
18.0	103800.00	-72.0	3001.05
15.0	136200.00	-75.0	2405.64
12.0	168800.00	-78.0	1798.23
9.0	197200.00	-81.0	1193.01
6.0	218900.00	-84.0	619.95
3.0	232600.00	-87.0	107.96
0.0	237800.00	-90.0	4.70

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	2.57	0.0	237800.00
87.0	224.92	-3.0	233500.00
84.0	562.35	-6.0	220150.00
81.0	1129.44	-9.0	199550.00
78.0	1696.53	-12.0	171125.00
75.0	2263.62	-15.0	138700.00
72.0	2838.65	-18.0	106543.98
69.0	3413.67	-21.0	78983.11
66.0	3988.69	-24.0	57756.70
63.0	4645.38	-27.0	42708.60
60.0	5342.89	-30.0	31826.21
57.0	6040.41	-33.0	23773.22
54.0	6859.16	-36.0	18958.74
51.0	7920.38	-39.0	15173.01
48.0	8981.61	-42.0	12416.01
45.0	10557.49	-45.0	10557.49
42.0	12416.01	-48.0	8981.61
39.0	15173.01	-51.0	7920.38
36.0	18958.74	-54.0	6859.16
33.0	23773.22	-57.0	6040.41
30.0	31826.21	-60.0	5342.89
27.0	42708.60	-63.0	4645.38
24.0	57756.70	-66.0	3988.69
21.0	78983.11	-69.0	3413.67
18.0	106543.98	-72.0	2838.65
15.0	138700.00	-75.0	2263.62
12.0	171125.00	-78.0	1696.53
9.0	199550.00	-81.0	1129.44
6.0	220150.00	-84.0	562.35
3.0	233500.00	-87.0	224.92
0.0	237800.00	-90.0	2.57

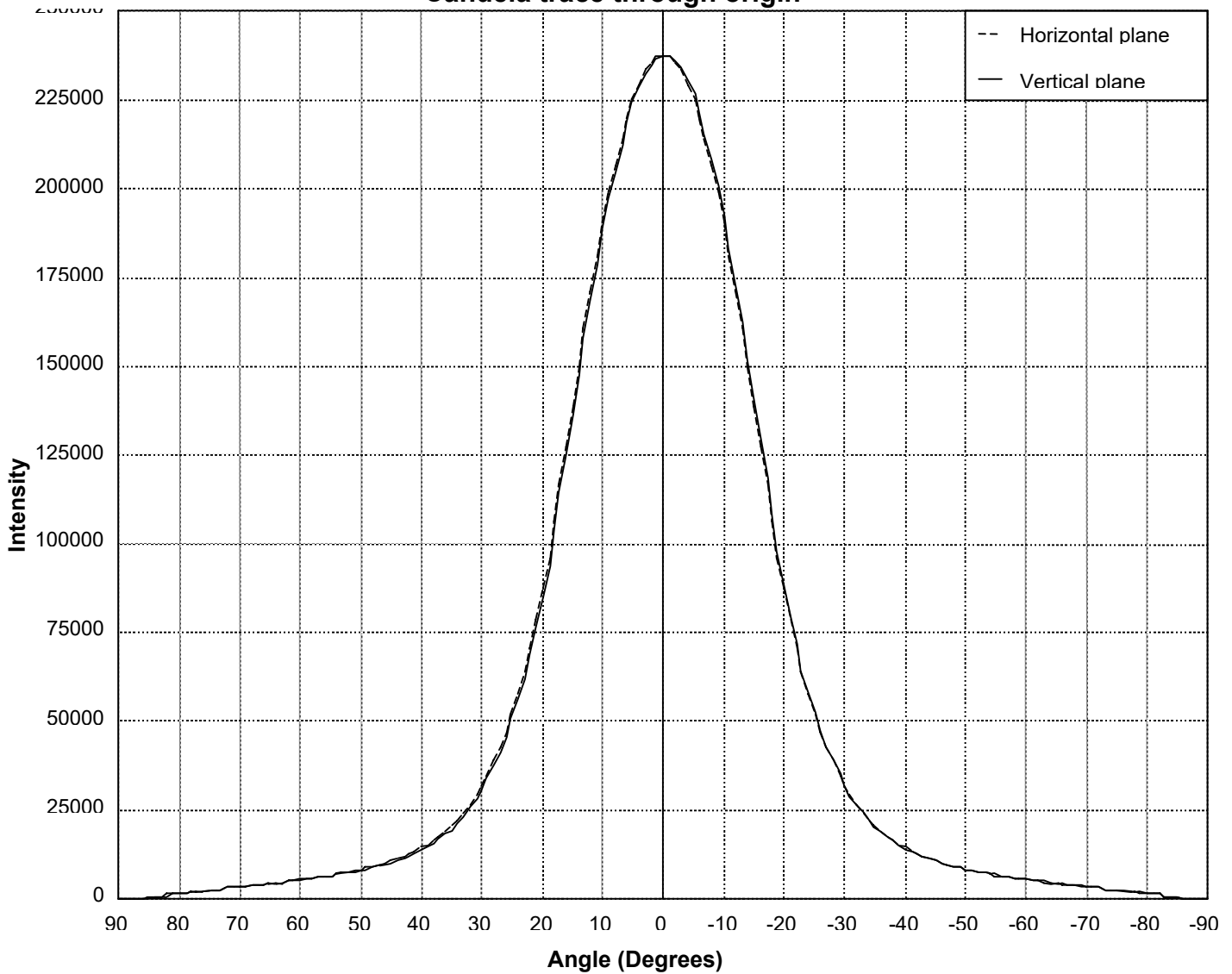
Note: Luminaire orientation as tested.  
The left and right sides of photometric data have been averaged.



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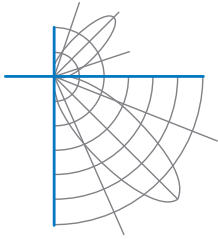
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**Candela trace through origin**



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.

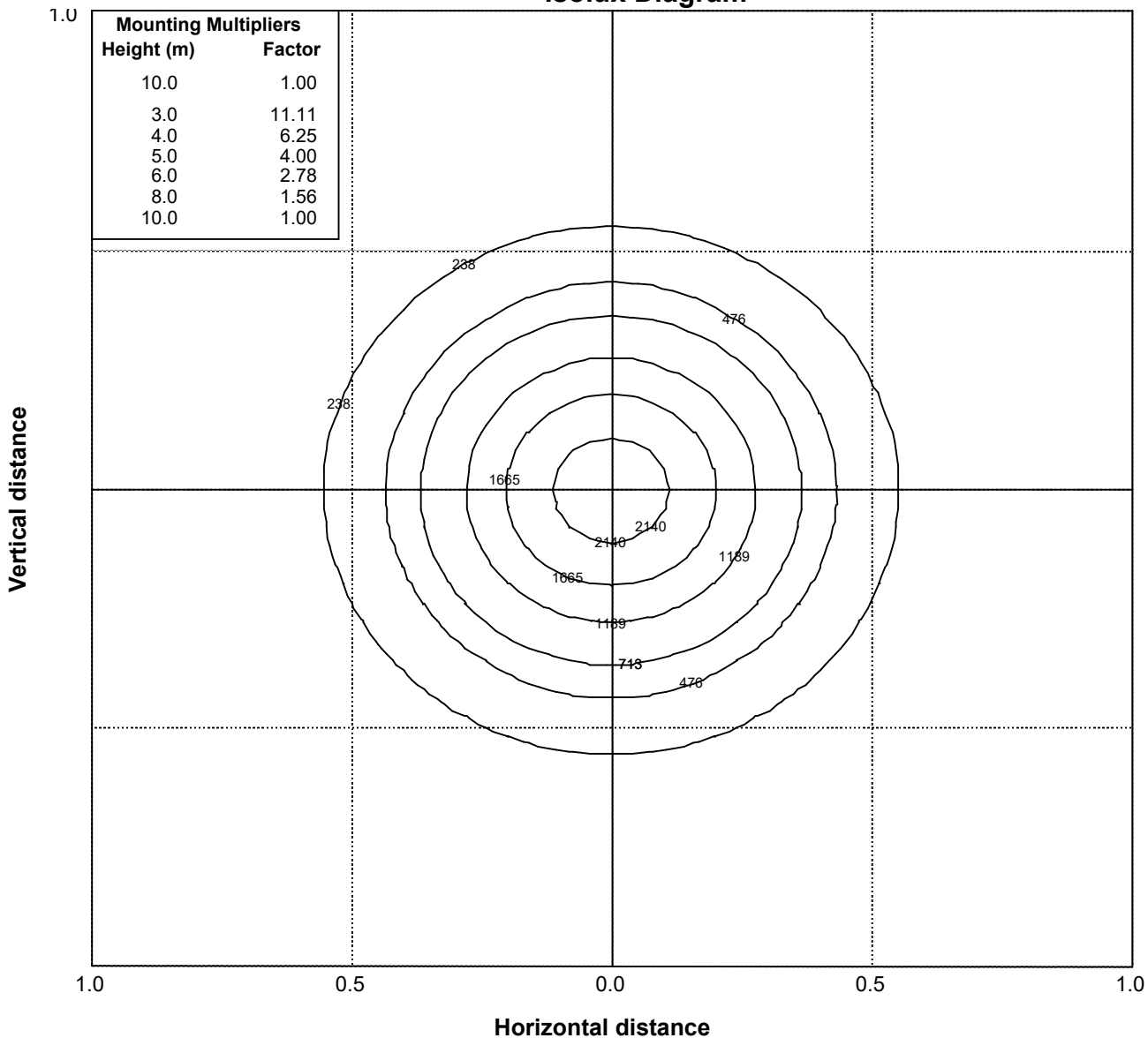




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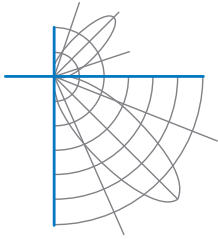
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**Isolux Diagram**



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.

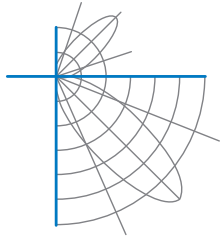




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**Test Distance** 9.5 m  
**Test Temperature** 25.4 °C

**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,  $\beta$ ) 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.