



Report of Test

LLIA002372-012

Catalog Number: FL-200PCS-SFYK - 200W Setting - 4000K Setting
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear plastic enclosure in front of LEDs
504 LEDs, 252 cool white and 252 warm white LEDs
One LiFud LF-FAC200 LED driver
120.1Vac, 60.00Hz, 1.616A, 193.4W, 0.997PF, 4.9%THD(i)



Performance Summary

Total Light Output	29553	lm	Illuminance at 10m	132.4 lux
Luminaire Power	193.4	W	Beam Distance	230.1 Meters (to 0.25 lux)
Luminous Efficacy	152.8	lm/W		
Beam Spread (50%)	86.9° V x 108.2° H		Maximum Intensity	13235.8 cd
Field Spread (10%)	127.9° V x 149.1° H			
NEMA Type	7H x 6V			

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 13235.8 cd
(Luminaire orientation as tested.) 0.0° vertical
-1.0° horizontal

Beam Spread At 10% of max intensity 127.9° V x 149.1° H
At 50% of max intensity 86.9° V x 108.2° H
At 90% of max intensity 48.0° V x 52.8° H

Beam Flux Total 29553 lm
To 10% of max intensity 28499 lm
To 50% of max intensity 22221 lm
To 90% of max intensity 7434 lm

Total Light Output 29553.4 lm

Signed:

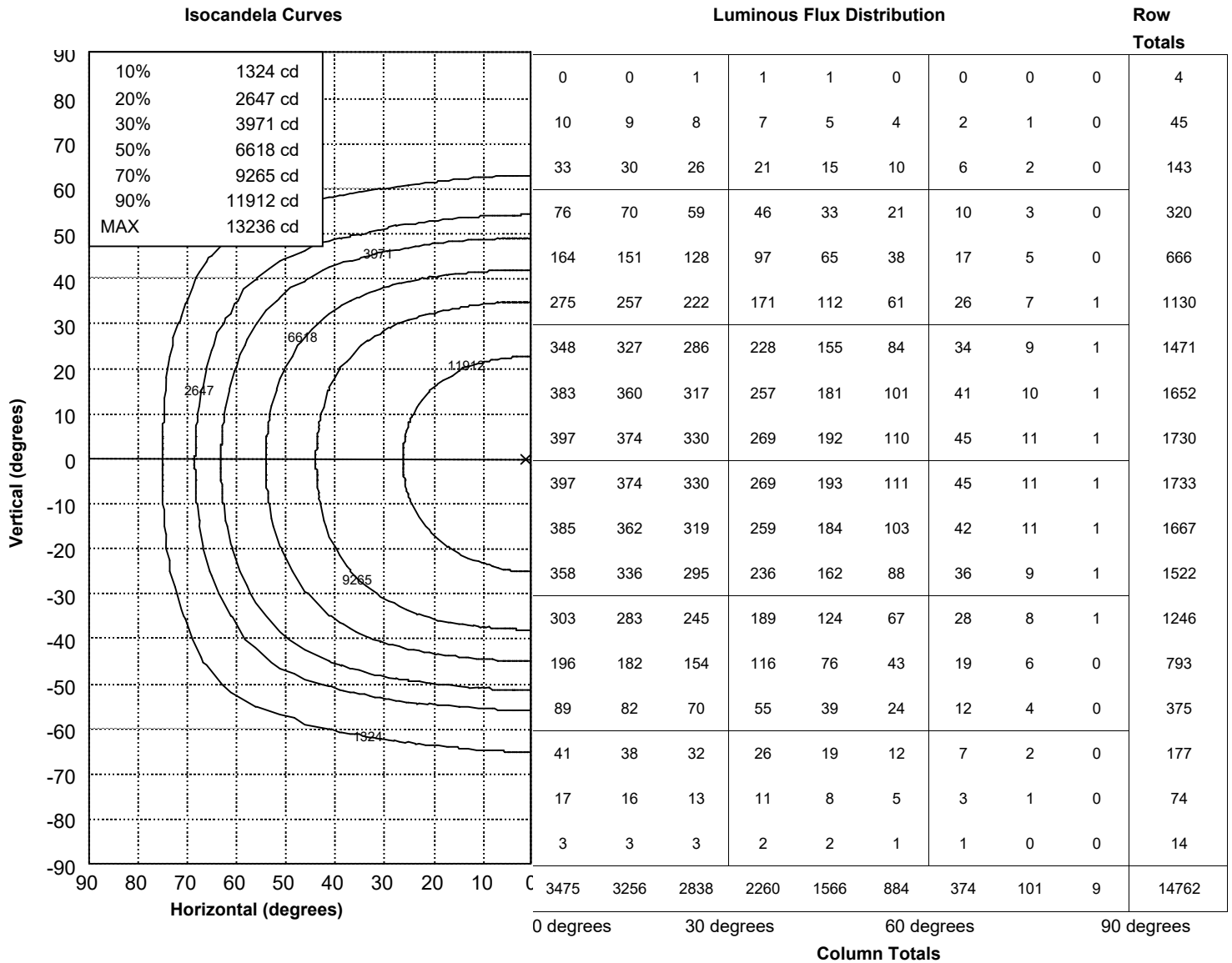
Authorized Signatory

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

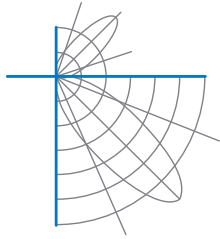


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	120	150	
-90	10.9 0.0	28.8 0.2	39.7 0.5	43.8 1.0	42.9 1.5	62.9 2.1	70.6 2.6	66.5 2.8	66.2 3.0	14
	31.8 0.1	88.6 0.8	206.9 2.8	301.0 5.3	352.1 8.0	424.4 10.8	476.0 13.5	520.6 15.8	554.1 17.2	74
	52.1 0.2	244.4 2.1	509.7 6.6	685.9 12.4	864.8 19.1	1010.9 25.9	1133.0 32.2	1242.1 37.5	1316.3 40.8	177
-60	74.1 0.3	471.3 3.9	875.4 11.9	1360.2 24.2	1782.0 39.2	2108.3 54.6	2411.1 69.9	2651.8 82.1	2789.3 89.0	375
	110.6 0.5	687.9 5.6	1480.7 19.5	2375.2 43.0	3470.9 76.4	4605.9 115.9	5567.7 153.7	6202.1 181.8	6515.5 196.5	793
	141.8 0.7	897.8 7.5	2126.2 27.8	3795.8 66.8	5758.4 123.9	7679.4 189.3	8991.7 244.5	9751.2 282.9	10112.4 302.6	1246
-30	166.1 0.8	1092.9 9.4	2733.5 36.0	5045.9 88.5	7554.8 161.8	9568.5 236.3	10769.2 295.1	11513.0 336.4	11874.1 357.8	1522
	182.8 0.9	1231.9 10.7	3185.5 42.3	5904.8 103.5	8565.8 183.5	10441.6 259.2	11620.9 319.3	12371.3 362.4	12735.5 384.7	1667
	190.8 1.0	1299.6 11.4	3412.4 45.5	6312.8 110.7	8976.4 192.7	10823.3 269.2	12005.6 330.3	12770.5 374.5	13148.3 397.4	1733
0	190.0 1.0	1289.6 11.3	3381.4 45.1	6276.2 110.1	8959.6 192.3	10813.1 268.9	11996.5 330.0	12762.7 374.2	13136.0 397.1	1730
	180.3 0.9	1203.5 10.5	3090.8 41.1	5768.2 101.1	8456.3 181.0	10371.2 257.1	11561.5 317.3	12317.1 360.4	12685.1 382.7	1652
	162.3 0.8	1050.8 9.0	2587.3 34.1	4784.6 83.9	7228.2 154.8	9249.8 228.0	10463.0 286.1	11207.0 326.8	11563.6 347.7	1471
30	137.3 0.6	848.8 7.1	1957.4 25.5	3447.1 60.7	5186.4 111.9	6922.6 171.0	8134.7 221.5	8848.8 256.9	9191.6 275.0	1130
	105.9 0.5	637.9 5.2	1327.8 17.4	2063.0 37.5	2931.8 65.1	3821.6 97.3	4576.0 128.2	5086.7 151.4	5346.2 163.8	666
	69.8 0.3	426.0 3.5	769.2 10.4	1165.5 20.7	1513.7 33.2	1808.1 46.4	2082.8 59.4	2303.4 70.0	2432.2 76.1	320
60	48.6 0.2	209.4 1.8	430.8 5.6	548.9 10.0	693.0 15.3	813.9 20.8	917.2 26.0	1011.9 30.5	1074.2 33.3	143
	29.5 0.1	66.8 0.6	155.7 2.1	210.3 3.7	215.7 5.2	254.4 6.7	273.9 7.9	285.9 9.0	299.7 9.6	45
	10.0 0.0	21.0 0.2	21.8 0.3	12.8 0.5	7.3 0.6	16.2 0.7	2.0 0.6	0.9 0.5	0.8 0.5	4
90	9	101	374	884	1566	2260	2838	3256	3475	14762

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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Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	66.2 3.0	66.5 2.8	70.6 2.6	62.9 2.1	42.9 1.5	43.8 1.0	39.7 0.5	28.8 0.2	10.9 0.0	14
	554.1 17.2	520.6 15.8	476.0 13.5	424.4 10.8	352.1 8.0	301.0 5.3	206.9 2.8	88.6 0.8	31.8 0.1	74
	1316.3 40.8	1242.1 37.5	1133.0 32.2	1010.9 25.9	864.8 19.1	685.9 12.4	509.7 6.6	244.4 2.1	52.1 0.2	177
-60	2789.3 89.0	2651.8 82.1	2411.1 69.9	2108.3 54.6	1782.0 39.2	1360.2 24.2	875.4 11.9	471.3 3.9	74.1 0.3	375
	6515.5 196.5	6202.1 181.8	5567.7 153.7	4605.9 115.9	3470.9 76.4	2375.2 43.0	1480.7 19.5	687.9 5.6	110.6 0.5	793
	10112.4 302.6	9751.2 282.9	8991.7 244.5	7679.4 189.3	5758.4 123.9	3795.8 66.8	2126.2 27.8	897.8 7.5	141.8 0.7	1246
-30	11874.1 357.8	11513.0 336.4	10769.2 295.1	9568.5 236.3	7554.8 161.8	5045.9 88.5	2733.5 36.0	1092.9 9.4	166.1 0.8	1522
	12735.5 384.7	12371.3 362.4	11620.9 319.3	10441.6 259.2	8565.8 183.5	5904.8 103.5	3185.5 42.3	1231.9 10.7	182.8 0.9	1667
	13148.3 397.4	12770.5 374.5	12005.6 330.3	10823.3 269.2	8976.4 192.7	6312.8 110.7	3412.4 45.5	1299.6 11.4	190.8 1.0	1733
0	13136.0 397.1	12762.7 374.2	11996.5 330.0	10813.1 268.9	8959.6 192.3	6276.2 110.1	3381.4 45.1	1289.6 11.3	190.0 1.0	1730
	12685.1 382.7	12317.1 360.4	11561.5 317.3	10371.2 257.1	8456.3 181.0	5768.2 101.1	3090.8 41.1	1203.5 10.5	180.3 0.9	1652
	11563.6 347.7	11207.0 326.8	10463.0 286.1	9249.8 228.0	7228.2 154.8	4784.6 83.9	2587.3 34.1	1050.8 9.0	162.3 0.8	1471
30	9191.6 275.0	8848.8 256.9	8134.7 221.5	6922.6 171.0	5186.4 111.9	3447.1 60.7	1957.4 25.5	848.8 7.1	137.3 0.6	1130
	5346.2 163.8	5086.7 151.4	4576.0 128.2	3821.6 97.3	2931.8 65.1	2063.0 37.5	1327.8 17.4	637.9 5.2	105.9 0.5	666
	2432.2 76.1	2303.4 70.0	2082.8 59.4	1808.1 46.4	1513.7 33.2	1165.5 20.7	769.2 10.4	426.0 3.5	69.8 0.3	320
60	1074.2 33.3	1011.9 30.5	917.2 26.0	813.9 20.8	693.0 15.3	548.9 10.0	430.8 5.6	209.4 1.8	48.6 0.2	143
	299.7 9.6	285.9 9.0	273.9 7.9	254.4 6.7	215.7 5.2	210.3 3.7	155.7 2.1	66.8 0.6	29.5 0.1	45
	0.8 0.5	0.9 0.5	2.0 0.6	16.2 0.7	7.3 0.6	12.8 0.5	21.8 0.3	21.0 0.2	10.0 0.0	4
90	3475	3256	2838	2260	1566	884	374	101	9	14762

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120.1Vac, 60.00Hz, 1.616A, 193.4W, 0.997PF, 4.9%THD(i)

Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	13218.15
87.0	0.00	-3.0	13204.00
84.0	0.00	-6.0	13148.94
81.0	20.21	-9.0	13052.30
78.0	167.34	-12.0	12923.53
75.0	305.86	-15.0	12762.79
72.0	487.89	-18.0	12557.39
69.0	706.74	-21.0	12311.62
66.0	987.93	-24.0	12016.10
63.0	1305.75	-27.0	11648.38
60.0	1657.69	-30.0	11189.27
57.0	2081.51	-33.0	10608.10
54.0	2647.50	-36.0	9888.29
51.0	3324.97	-39.0	8986.15
48.0	4241.19	-42.0	7874.25
45.0	5383.90	-45.0	6551.69
42.0	6619.53	-48.0	5193.98
39.0	7811.66	-51.0	3986.16
36.0	8896.11	-54.0	3055.50
33.0	9834.51	-57.0	2374.74
30.0	10610.31	-60.0	1872.77
27.0	11244.72	-63.0	1515.12
24.0	11749.51	-66.0	1241.56
21.0	12141.91	-69.0	1002.35
18.0	12457.97	-72.0	779.75
15.0	12709.48	-75.0	562.99
12.0	12895.99	-78.0	368.16
9.0	13033.16	-81.0	216.88
6.0	13131.97	-84.0	99.18
3.0	13195.10	-87.0	22.42
0.0	13218.15	-90.0	4.12

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.92	0.0	13218.15
87.0	74.10	-3.0	13222.96
84.0	233.47	-6.0	13175.46
81.0	563.27	-9.0	13095.52
78.0	893.07	-12.0	12975.24
75.0	1222.87	-15.0	12819.75
72.0	1864.50	-18.0	12624.14
69.0	2506.12	-21.0	12400.79
66.0	3147.75	-24.0	12143.51
63.0	3963.63	-27.0	11847.45
60.0	4866.62	-30.0	11517.98
57.0	5769.62	-33.0	11154.77
54.0	6650.69	-36.0	10723.64
51.0	7487.91	-39.0	10238.88
48.0	8325.12	-42.0	9700.49
45.0	9037.71	-45.0	9037.71
42.0	9700.49	-48.0	8325.12
39.0	10238.88	-51.0	7487.91
36.0	10723.64	-54.0	6650.69
33.0	11154.77	-57.0	5769.62
30.0	11517.98	-60.0	4866.62
27.0	11847.45	-63.0	3963.63
24.0	12143.51	-66.0	3147.75
21.0	12400.79	-69.0	2506.12
18.0	12624.14	-72.0	1864.50
15.0	12819.75	-75.0	1222.87
12.0	12975.24	-78.0	893.07
9.0	13095.52	-81.0	563.27
6.0	13175.46	-84.0	233.47
3.0	13222.96	-87.0	74.10
0.0	13218.15	-90.0	0.92

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



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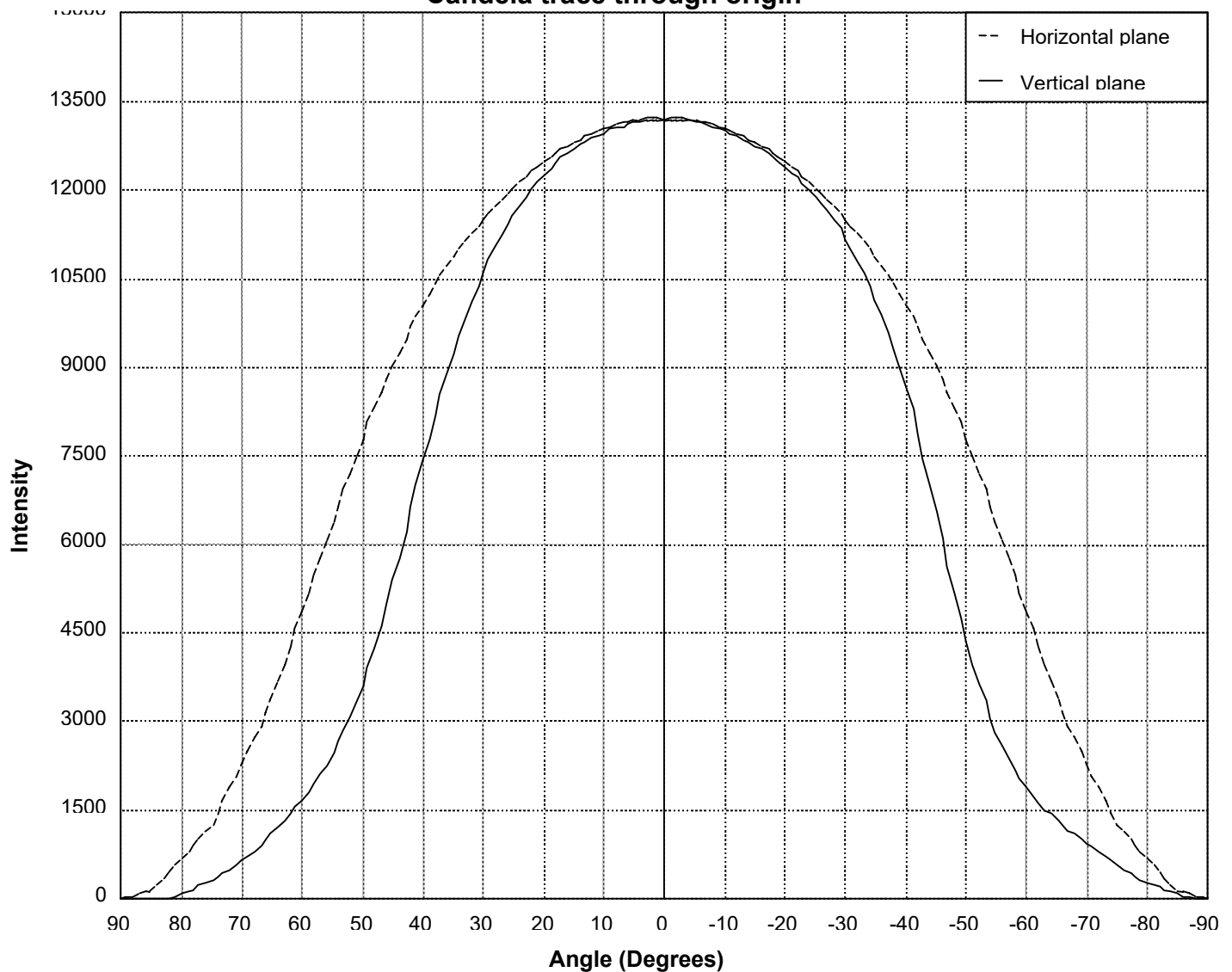
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Candela trace through origin



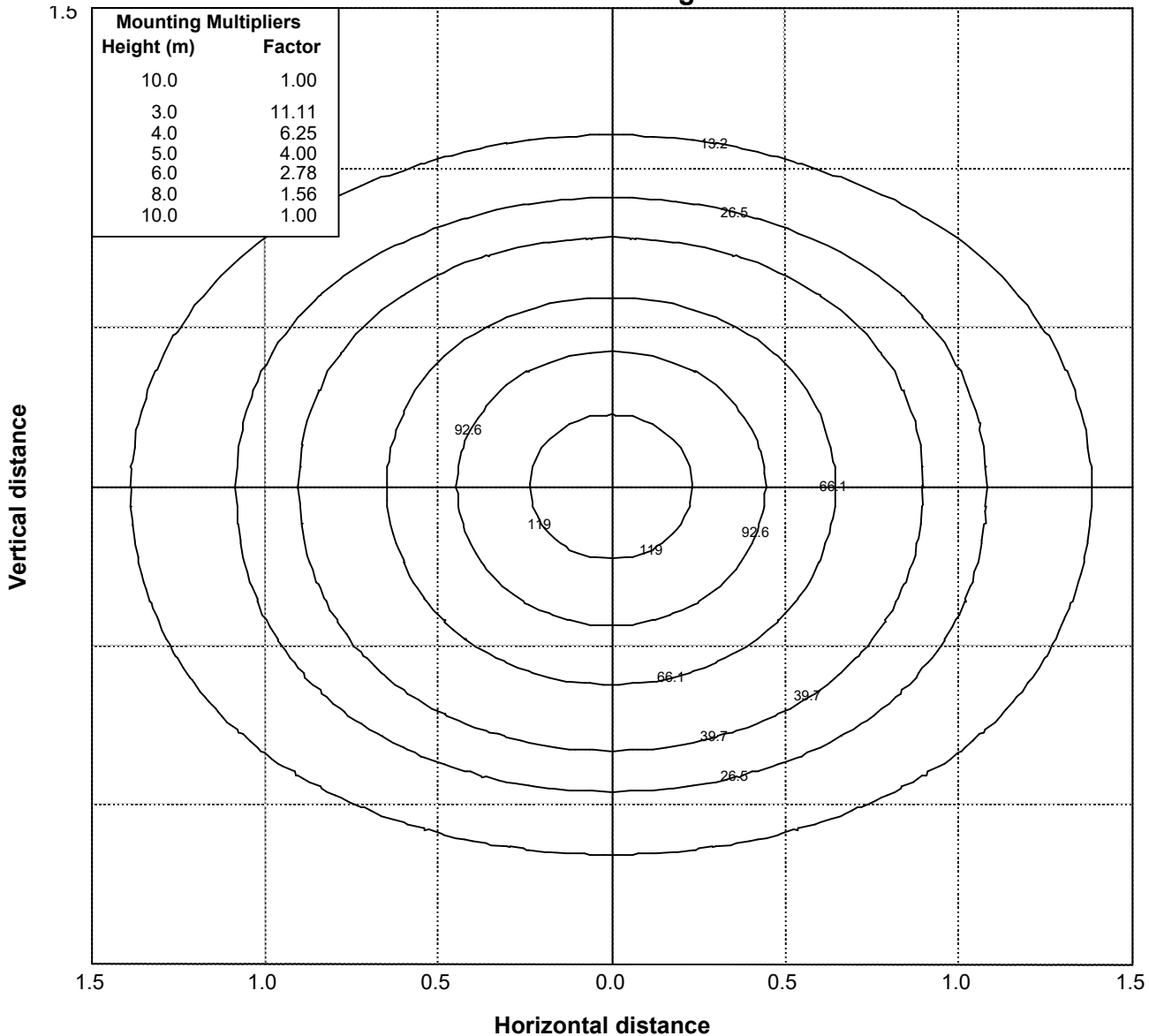
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



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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 25.2 °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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