



Report of Test

LLIA002372-010

Catalog Number: FL-200PCS-SFYK - 120W 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
120.0Vac, 60.00Hz, 1.001A, 119.6W, 0.996PF, 4.6%THD(i)



Performance Summary

Total Light Output	19595	lm	Illuminance at 10m	87.9 lux
Luminaire Power	119.6	W	Beam Distance	187.5 Meters (to 0.25 lux)
Luminous Efficacy	163.8	lm/W		
Beam Spread (50%)	87.1° V x 109.6° H		Maximum Intensity	8792.8 cd
Field Spread (10%)	122.6° V x 147.9° 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 8792.8 cd
(Luminaire orientation as tested.) -0.5° vertical
-0.9° horizontal

Beam Spread At 10% of max intensity 122.6° V x 147.9° H
At 50% of max intensity 87.1° V x 109.6° H
At 90% of max intensity 50.8° V x 55.0° H

Beam Flux Total 19595 lm
To 10% of max intensity 18917 lm
To 50% of max intensity 15195 lm
To 90% of max intensity 5669 lm

Total Light Output 19595.4 lm

Signed:

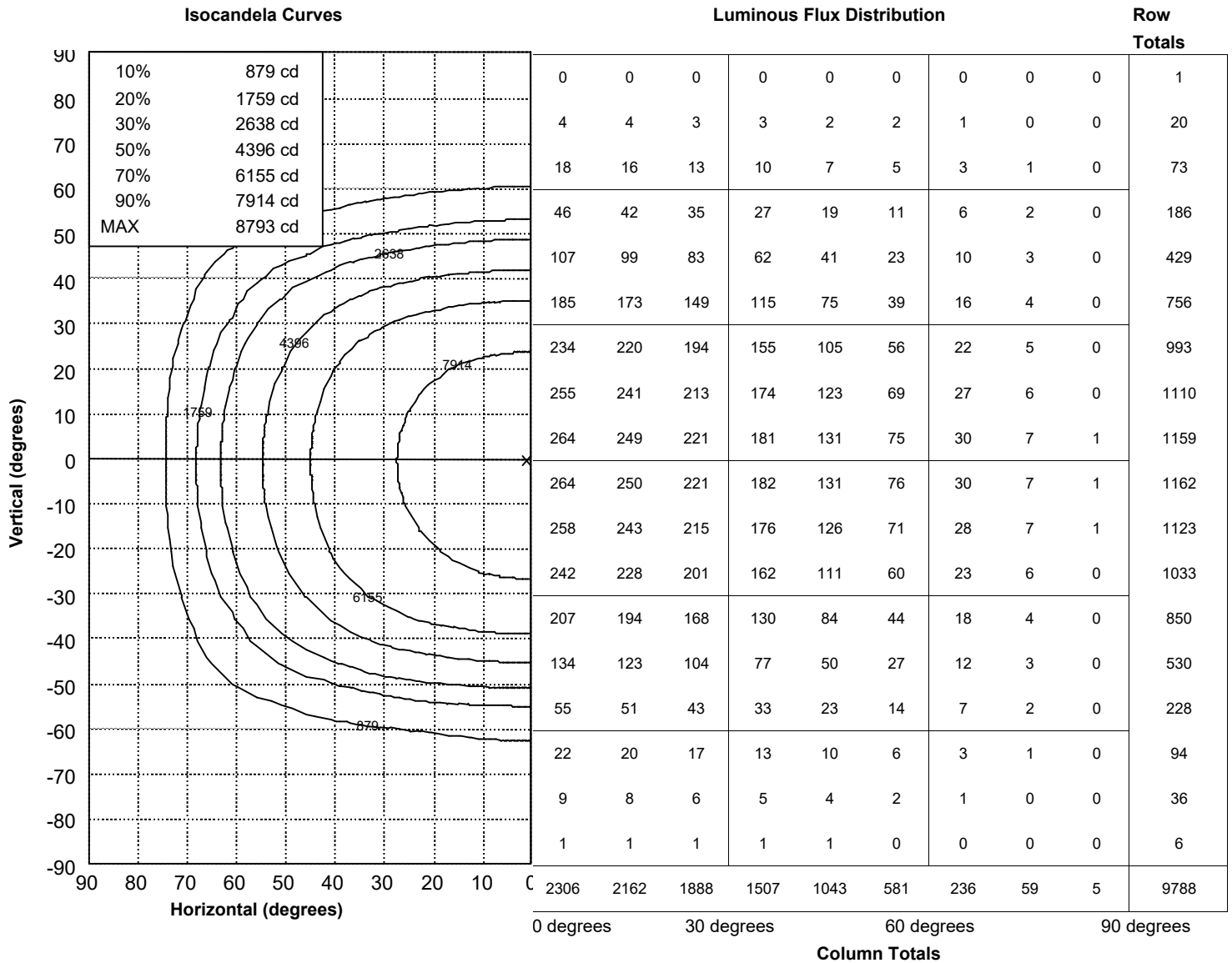
Authorized Signatory

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

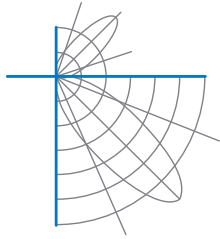


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals										
	-90	-60	-30	0	30	60	90	120	150											
-90	4.9 0.0	12.2 0.1	15.6 0.2	18.9 0.4	20.0 0.6	26.2 0.8	31.0 1.1	29.3 1.2	30.2 1.3	6										
	14.3 0.1	38.8 0.4	98.5 1.3	137.9 2.4	158.0 3.6	195.1 5.0	226.1 6.5	256.3 7.8	279.8 8.8	36										
	23.5 0.1	126.2 1.1	264.2 3.4	345.3 6.3	438.6 9.8	520.1 13.4	596.3 17.0	669.1 20.2	720.6 22.3	94										
-60	34.6 0.1	261.6 2.1	482.7 6.7	780.1 13.9	1049.4 23.0	1261.9 32.7	1474.7 42.7	1646.4 50.8	1744.7 55.5	228										
	53.5 0.3	393.1 3.2	893.2 11.8	1487.5 27.2	2265.4 49.9	3071.8 77.3	3754.7 103.7	4200.3 123.3	4420.5 133.5	530										
	69.8 0.4	524.6 4.4	1345.9 17.6	2522.4 44.4	3924.3 84.5	5271.8 130.0	6169.7 167.9	6680.1 193.9	6916.8 207.1	850										
-30	82.5 0.5	647.9 5.7	1772.4 23.5	3422.0 60.1	5185.8 111.1	6542.7 161.7	7323.3 200.8	7799.1 228.0	8022.6 242.0	1033										
	91.2 0.5	735.9 6.6	2090.1 27.9	4031.2 70.7	5863.7 125.6	7089.9 176.1	7826.6 215.2	8294.6 243.2	8516.1 257.5	1123										
	95.3 0.5	778.3 7.0	2249.2 30.2	4318.3 75.6	6124.8 131.4	7314.4 181.9	8044.8 221.4	8518.6 249.8	8746.2 264.5	1162										
0	94.7 0.5	770.2 7.0	2222.9 29.8	4284.7 75.1	6102.5 130.9	7299.3 181.5	8031.3 221.0	8503.4 249.4	8728.7 264.0	1159										
	89.4 0.5	712.9 6.4	2012.6 26.9	3916.1 68.7	5764.1 123.3	7018.8 174.1	7766.7 213.3	8234.4 241.1	8458.9 255.5	1110										
	79.8 0.4	614.3 5.4	1654.7 21.9	3210.4 56.4	4923.4 105.4	6290.1 155.1	7078.9 193.6	7554.1 220.3	7779.2 234.0	993										
30	66.7 0.3	485.8 4.1	1210.1 15.8	2239.0 39.4	3456.2 74.6	4653.9 115.1	5467.7 149.1	5935.5 172.6	6156.9 184.7	756										
	50.3 0.2	354.4 2.9	772.1 10.2	1238.3 22.8	1833.5 40.8	2450.6 62.4	2977.1 83.4	3326.4 99.0	3504.8 107.3	429										
	31.8 0.1	228.4 1.9	405.0 5.6	636.9 11.4	850.6 18.7	1035.2 26.6	1215.9 34.8	1361.7 41.6	1448.5 45.6	186										
60	21.3 0.1	103.4 0.9	212.5 2.7	259.3 4.8	332.7 7.4	399.6 10.3	462.4 13.1	522.6 15.8	562.5 17.5	73										
	12.9 0.0	26.6 0.3	70.0 0.9	88.8 1.6	87.3 2.1	105.6 2.8	116.6 3.5	125.9 4.0	135.8 4.5	20										
	4.4 0.0	7.9 0.1	7.3 0.1	5.9 0.2	4.3 0.2	5.0 0.2	2.8 0.2	2.0 0.2	1.6 0.1	1										
90	<table border="0" style="width:100%; text-align:center;"> <tr> <td>5</td><td>59</td><td>236</td><td>581</td><td>1043</td><td>1507</td><td>1888</td><td>2162</td><td>2306</td><td>9788</td> </tr> </table>									5	59	236	581	1043	1507	1888	2162	2306	9788	9788
5	59	236	581	1043	1507	1888	2162	2306	9788											

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	30.2 1.3	29.3 1.2	31.0 1.1	26.2 0.8	20.0 0.6	18.9 0.4	15.6 0.2	12.2 0.1	4.9 0.0	6
	279.8 8.8	256.3 7.8	226.1 6.5	195.1 5.0	158.0 3.6	137.9 2.4	98.5 1.3	38.8 0.4	14.3 0.1	36
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	4420.5 133.5	4200.3 123.3	3754.7 103.7	3071.8 77.3	2265.4 49.9	1487.5 27.2	893.2 11.8	393.1 3.2	53.5 0.3	530
	6916.8 207.1	6680.1 193.9	6169.7 167.9	5271.8 130.0	3924.3 84.5	2522.4 44.4	1345.9 17.6	524.6 4.4	69.8 0.4	850
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	8516.1 257.5	8294.6 243.2	7826.6 215.2	7089.9 176.1	5863.7 125.6	4031.2 70.7	2090.1 27.9	735.9 6.6	91.2 0.5	1123
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	7779.2 234.0	7554.1 220.3	7078.9 193.6	6290.1 155.1	4923.4 105.4	3210.4 56.4	1654.7 21.9	614.3 5.4	79.8 0.4	993
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	1448.5 45.6	1361.7 41.6	1215.9 34.8	1035.2 26.6	850.6 18.7	636.9 11.4	405.0 5.6	228.4 1.9	31.8 0.1	186
60	562.5 17.5	522.6 15.8	462.4 13.1	399.6 10.3	332.7 7.4	259.3 4.8	212.5 2.7	103.4 0.9	21.3 0.1	73
	135.8 4.5	125.9 4.0	116.6 3.5	105.6 2.8	87.3 2.1	88.8 1.6	70.0 0.9	26.6 0.3	12.9 0.0	20
	1.6 0.1	2.0 0.2	2.8 0.2	5.0 0.2	4.3 0.2	5.9 0.2	7.3 0.1	7.9 0.1	4.4 0.0	1
90	2306	2162	1888	1507	1043	581	236	59	5	9788

Lumen Totals

Legend:

candelas
lumens

Standard table of intensity and illuminance in accordance with IES procedures.
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	8787.39
87.0	0.00	-3.0	8783.54
84.0	0.00	-6.0	8754.48
81.0	7.79	-9.0	8704.06
78.0	64.96	-12.0	8631.82
75.0	136.17	-15.0	8540.17
72.0	234.79	-18.0	8426.11
69.0	353.73	-21.0	8285.91
66.0	511.50	-24.0	8117.60
63.0	695.27	-27.0	7897.95
60.0	903.87	-30.0	7619.07
57.0	1187.66	-33.0	7252.76
54.0	1591.76	-36.0	6781.92
51.0	2089.24	-39.0	6174.35
48.0	2731.76	-42.0	5395.52
45.0	3522.64	-45.0	4450.35
42.0	4376.98	-48.0	3473.36
39.0	5201.37	-51.0	2596.86
36.0	5961.97	-54.0	1915.17
33.0	6623.73	-57.0	1419.19
30.0	7162.40	-60.0	1064.10
27.0	7588.27	-63.0	832.83
24.0	7908.68	-66.0	671.30
21.0	8150.07	-69.0	535.51
18.0	8335.48	-72.0	409.27
15.0	8484.55	-75.0	286.08
12.0	8595.98	-78.0	173.57
9.0	8672.96	-81.0	96.34
6.0	8731.57	-84.0	42.31
3.0	8773.91	-87.0	10.02
0.0	8787.39	-90.0	2.38

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.58	0.0	8787.39
87.0	33.56	-3.0	8784.64
84.0	122.68	-6.0	8758.40
81.0	322.68	-9.0	8711.58
78.0	522.69	-12.0	8638.40
75.0	722.69	-15.0	8542.77
72.0	1169.98	-18.0	8421.67
69.0	1617.27	-21.0	8283.14
66.0	2064.57	-24.0	8123.93
63.0	2643.27	-27.0	7943.73
60.0	3287.67	-30.0	7742.83
57.0	3932.07	-33.0	7520.60
54.0	4551.57	-36.0	7246.80
51.0	5121.26	-39.0	6937.13
48.0	5690.95	-42.0	6591.61
45.0	6159.96	-45.0	6159.96
42.0	6591.61	-48.0	5690.95
39.0	6937.13	-51.0	5121.26
36.0	7246.80	-54.0	4551.57
33.0	7520.60	-57.0	3932.07
30.0	7742.83	-60.0	3287.67
27.0	7943.73	-63.0	2643.27
24.0	8123.93	-66.0	2064.57
21.0	8283.14	-69.0	1617.27
18.0	8421.67	-72.0	1169.98
15.0	8542.77	-75.0	722.69
12.0	8638.40	-78.0	522.69
9.0	8711.58	-81.0	322.68
6.0	8758.40	-84.0	122.68
3.0	8784.64	-87.0	33.56
0.0	8787.39	-90.0	0.58

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



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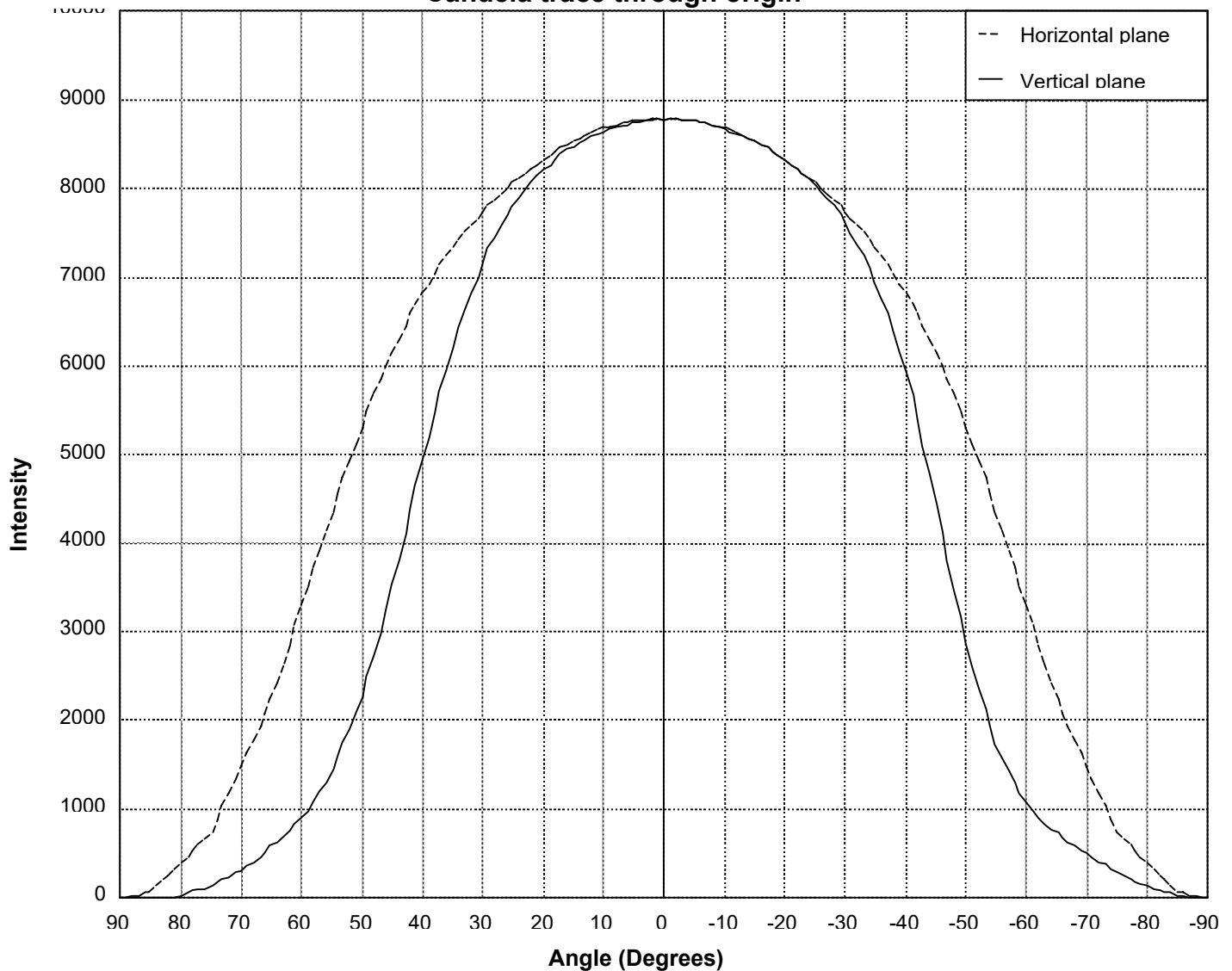
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Candela trace through origin



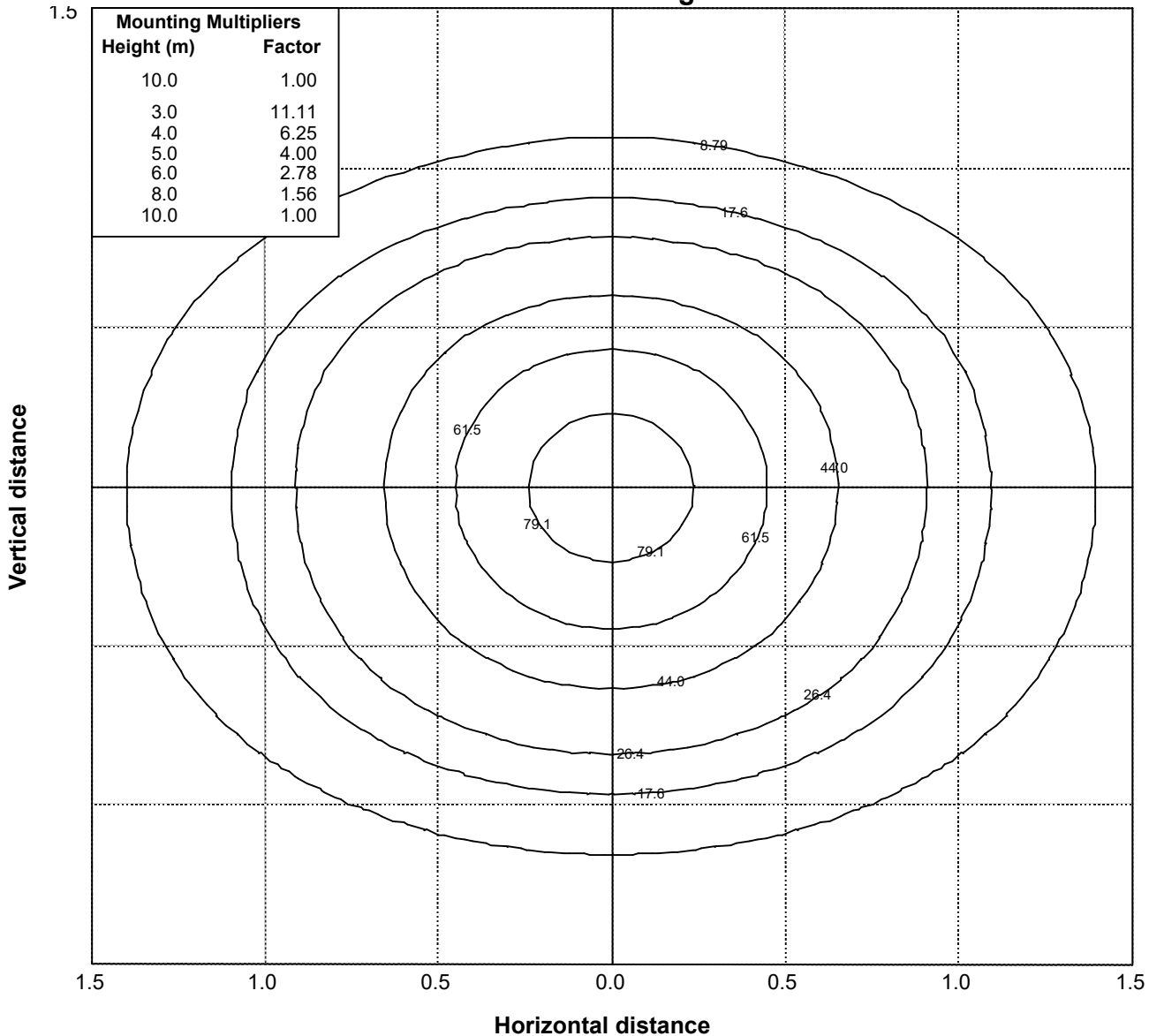
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



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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 25.1 °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.