

Report of Test

LLIA002372-011

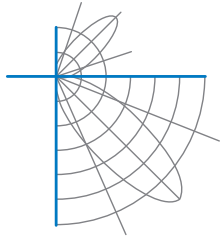
Catalog Number: FL-200PCS-SFYK - 150W Setting - 4000K Setting
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear plastic enclosure in front of LEDs
504 LEDs, 252 cool white and 252 warm white LEDs
One LiFud LF-FAC200 LED driver
120.0Vac, 60.00Hz, 1.239A, 148.2W, 0.997PF, 4.9%THD(i)



Performance Summary

Total Light Output	23807	lm	Illuminance at 10m	107.1 lux
Luminaire Power	148.2	W	Beam Distance	206.9 Meters (to 0.25 lux)
Luminous Efficacy	160.6	lm/W		
Beam Spread (50%)	86.9° V x 109.4° H		Maximum Intensity	10706.0 cd
Field Spread (10%)	123.1° V x 148.0° 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 (Luminaire orientation as tested.) 10706.0 cd
-1.1° vertical
-1.0° horizontal

Beam Spread At 10% of max intensity 123.1° V x 148.0° H
At 50% of max intensity 86.9° V x 109.4° H
At 90% of max intensity 50.4° V x 54.8° H

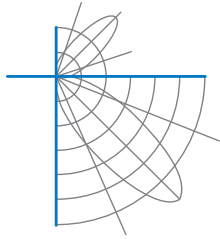
Beam Flux Total 23807 lm
To 10% of max intensity 22983 lm
To 50% of max intensity 18447 lm
To 90% of max intensity 6827 lm

Total Light Output 23807.5 lm

Signed:

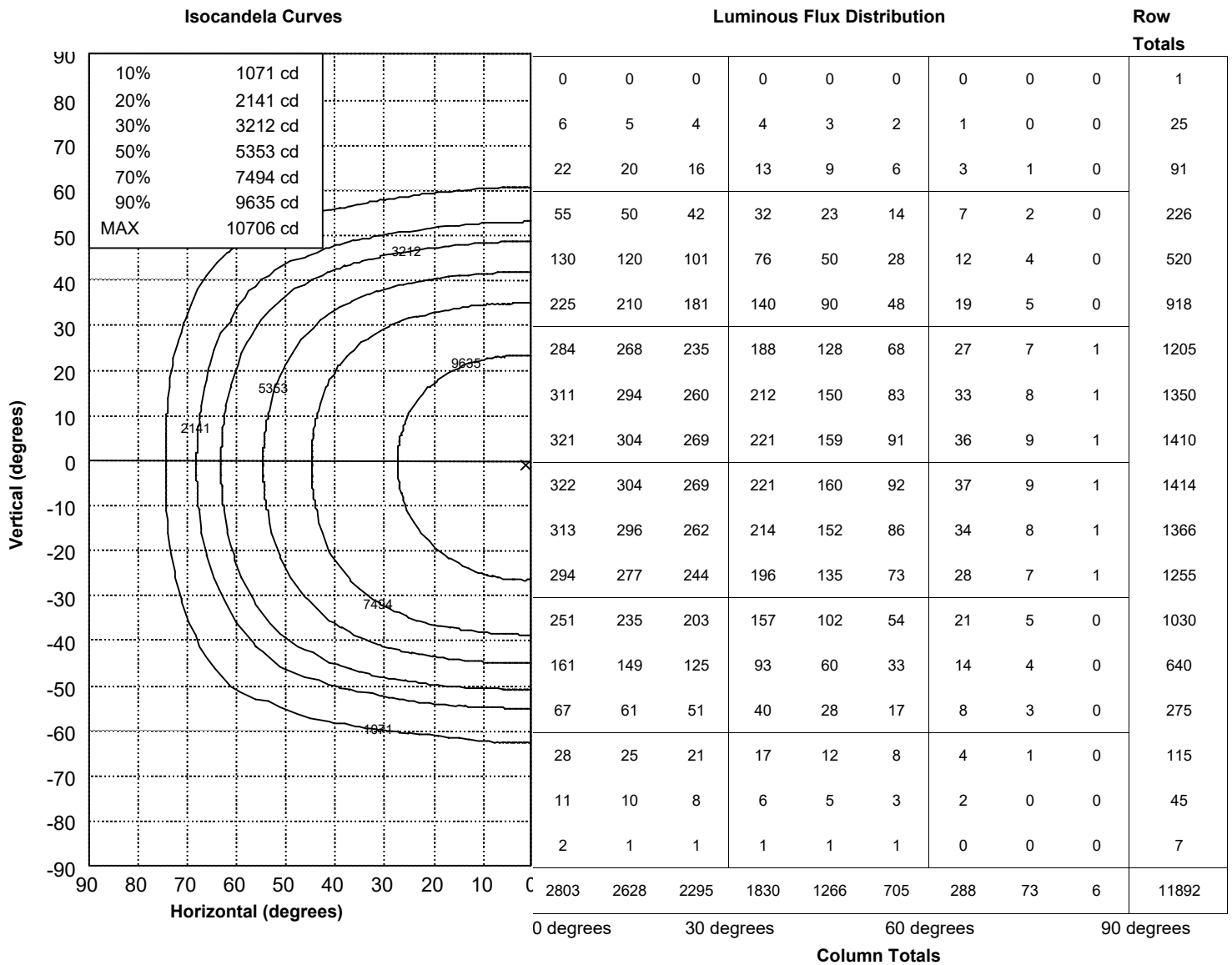
Authorized Signatory

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

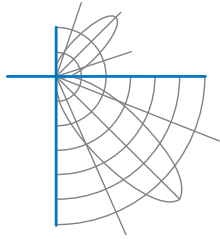


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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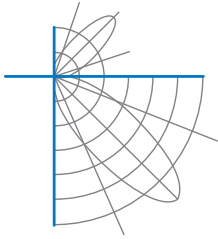
Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	120	150	
-90	6.3 0.0	15.6 0.1	20.3 0.3	26.6 0.5	30.8 0.8	34.0 1.0	41.7 1.3	40.9 1.5	42.5 1.6	7
	18.2 0.1	50.2 0.5	123.8 1.7	174.2 3.0	204.1 4.5	247.4 6.3	286.6 8.1	324.4 9.8	352.9 11.0	45
	29.9 0.1	157.0 1.4	328.3 4.2	430.9 7.8	546.5 12.0	649.0 16.5	745.6 20.9	835.2 24.9	898.3 27.5	115
-60	43.2 0.2	322.8 2.7	602.5 8.2	959.5 17.0	1283.7 27.9	1545.7 39.5	1807.7 51.4	2014.4 61.2	2133.5 66.7	275
	68.8 0.3	483.6 4.0	1089.3 14.4	1810.6 32.9	2748.2 60.3	3705.7 93.2	4521.5 125.1	5054.1 148.8	5317.6 161.1	640
	90.7 0.4	644.2 5.4	1634.6 21.4	3046.6 53.7	4731.2 102.1	6358.6 157.3	7447.5 203.4	8069.3 235.0	8358.2 251.0	1030
-30	107.8 0.6	798.6 7.0	2150.5 28.5	4133.2 72.7	6268.0 134.6	7930.2 196.3	8887.1 244.0	9468.3 277.1	9745.3 294.1	1255
	119.5 0.6	908.6 8.1	2538.8 33.9	4871.8 85.6	7108.0 152.5	8610.7 214.0	9517.4 261.9	10087.7 295.9	10360.7 313.4	1366
	125.2 0.7	962.6 8.6	2734.2 36.5	5224.2 91.6	7433.8 159.5	8893.0 221.2	9790.5 269.4	10368.9 304.1	10647.9 322.0	1414
0	124.4 0.7	952.8 8.5	2703.0 36.1	5185.3 90.9	7407.6 158.9	8874.3 220.7	9773.9 268.9	10352.5 303.6	10627.1 321.4	1410
	117.3 0.6	880.9 7.8	2446.0 32.7	4733.5 83.2	6986.2 149.8	8522.8 211.6	9439.3 259.5	10014.2 293.5	10289.4 311.0	1350
	104.4 0.5	758.2 6.6	2010.3 26.6	3879.5 68.2	5949.1 127.7	7617.4 188.2	8582.8 235.2	9164.0 267.8	9440.1 284.4	1205
30	86.8 0.4	597.9 5.0	1473.9 19.2	2711.8 47.8	4179.8 90.4	5630.5 139.7	6622.5 181.2	7194.5 209.9	7465.9 224.5	918
	64.8 0.3	437.5 3.6	946.7 12.5	1519.3 27.7	2245.0 49.5	2983.8 75.6	3617.8 100.9	4037.3 119.9	4253.7 130.1	520
	39.8 0.2	283.2 2.3	508.4 6.9	788.1 14.0	1047.6 22.8	1274.9 32.4	1495.8 42.2	1667.7 50.3	1772.6 55.1	226
60	27.2 0.1	129.4 1.1	265.6 3.4	326.5 6.0	418.6 9.2	502.9 12.8	583.2 16.4	657.4 19.7	709.9 21.9	91
	16.4 0.1	35.1 0.3	88.8 1.2	113.6 2.0	117.2 2.7	136.1 3.6	151.6 4.4	165.7 5.2	179.1 5.7	25
	5.6 0.0	10.4 0.1	9.8 0.1	9.5 0.2	9.2 0.3	7.4 0.3	5.5 0.2	3.6 0.1	2.1 0.1	1
90	6	73	288	705	1266	1830	2295	2628	2803	11892

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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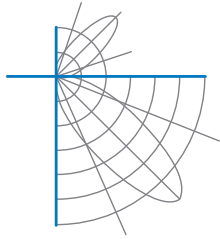
Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	42.5 1.6	40.9 1.5	41.7 1.3	34.0 1.0	30.8 0.8	26.6 0.5	20.3 0.3	15.6 0.1	6.3 0.0	7
	352.9 11.0	324.4 9.8	286.6 8.1	247.4 6.3	204.1 4.5	174.2 3.0	123.8 1.7	50.2 0.5	18.2 0.1	45
	898.3 27.5	835.2 24.9	745.6 20.9	649.0 16.5	546.5 12.0	430.9 7.8	328.3 4.2	157.0 1.4	29.9 0.1	115
-60	2133.5 66.7	2014.4 61.2	1807.7 51.4	1545.7 39.5	1283.7 27.9	959.5 17.0	602.5 8.2	322.8 2.7	43.2 0.2	275
	5317.6 161.1	5054.1 148.8	4521.5 125.1	3705.7 93.2	2748.2 60.3	1810.6 32.9	1089.3 14.4	483.6 4.0	68.8 0.3	640
	8358.2 251.0	8069.3 235.0	7447.5 203.4	6358.6 157.3	4731.2 102.1	3046.6 53.7	1634.6 21.4	644.2 5.4	90.7 0.4	1030
-30	9745.3 294.1	9468.3 277.1	8887.1 244.0	7930.2 196.3	6268.0 134.6	4133.2 72.7	2150.5 28.5	798.6 7.0	107.8 0.6	1255
	10360.7 313.4	10087.7 295.9	9517.4 261.9	8610.7 214.0	7108.0 152.5	4871.8 85.6	2538.8 33.9	908.6 8.1	119.5 0.6	1366
	10647.9 322.0	10368.9 304.1	9790.5 269.4	8893.0 221.2	7433.8 159.5	5224.2 91.6	2734.2 36.5	962.6 8.6	125.2 0.7	1414
0	10627.1 321.4	10352.5 303.6	9773.9 268.9	8874.3 220.7	7407.6 158.9	5185.3 90.9	2703.0 36.1	952.8 8.5	124.4 0.7	1410
	10289.4 311.0	10014.2 293.5	9439.3 259.5	8522.8 211.6	6986.2 149.8	4733.5 83.2	2446.0 32.7	880.9 7.8	117.3 0.6	1350
	9440.1 284.4	9164.0 267.8	8582.8 235.2	7617.4 188.2	5949.1 127.7	3879.5 68.2	2010.3 26.6	758.2 6.6	104.4 0.5	1205
30	7465.9 224.5	7194.5 209.9	6622.5 181.2	5630.5 139.7	4179.8 90.4	2711.8 47.8	1473.9 19.2	597.9 5.0	86.8 0.4	918
	4253.7 130.1	4037.3 119.9	3617.8 100.9	2983.8 75.6	2245.0 49.5	1519.3 27.7	946.7 12.5	437.5 3.6	64.8 0.3	520
	1772.6 55.1	1667.7 50.3	1495.8 42.2	1274.9 32.4	1047.6 22.8	788.1 14.0	508.4 6.9	283.2 2.3	39.8 0.2	226
60	709.9 21.9	657.4 19.7	583.2 16.4	502.9 12.8	418.6 9.2	326.5 6.0	265.6 3.4	129.4 1.1	27.2 0.1	91
	179.1 5.7	165.7 5.2	151.6 4.4	136.1 3.6	117.2 2.7	113.6 2.0	88.8 1.2	35.1 0.3	16.4 0.1	25
	2.1 0.1	3.6 0.1	5.5 0.2	7.4 0.3	9.2 0.3	9.5 0.2	9.8 0.1	10.4 0.1	5.6 0.0	1
90	2803	2628	2295	1830	1266	705	288	73	6	11892

Lumen Totals

Legend:

candelas
lumens

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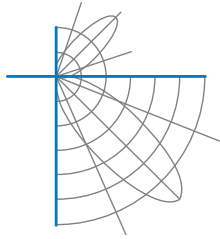
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	10700.62
87.0	0.00	-3.0	10693.47
84.0	0.00	-6.0	10658.30
81.0	9.78	-9.0	10594.05
78.0	84.04	-12.0	10505.03
75.0	174.96	-15.0	10394.90
72.0	298.70	-18.0	10249.79
69.0	447.39	-21.0	10075.96
66.0	643.65	-24.0	9866.75
63.0	869.41	-27.0	9594.32
60.0	1125.18	-30.0	9243.11
57.0	1462.01	-33.0	8785.74
54.0	1938.45	-36.0	8207.76
51.0	2526.12	-39.0	7457.25
48.0	3303.21	-42.0	6508.72
45.0	4265.79	-45.0	5360.34
42.0	5312.76	-48.0	4181.04
39.0	6317.86	-51.0	3124.86
36.0	7243.86	-54.0	2311.02
33.0	8043.18	-57.0	1724.14
30.0	8696.81	-60.0	1308.64
27.0	9211.65	-63.0	1032.26
24.0	9606.60	-66.0	836.46
21.0	9904.94	-69.0	669.67
18.0	10139.83	-72.0	514.40
15.0	10323.62	-75.0	360.99
12.0	10458.94	-78.0	221.31
9.0	10558.83	-81.0	123.72
6.0	10631.28	-84.0	54.65
3.0	10678.83	-87.0	13.02
0.0	10700.62	-90.0	2.96

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.72	0.0	10700.62
87.0	42.74	-3.0	10693.63
84.0	152.99	-6.0	10662.61
81.0	397.98	-9.0	10607.63
78.0	642.97	-12.0	10516.04
75.0	887.97	-15.0	10398.30
72.0	1426.89	-18.0	10251.27
69.0	1965.82	-21.0	10082.53
66.0	2504.75	-24.0	9888.22
63.0	3203.21	-27.0	9665.96
60.0	3981.43	-30.0	9417.19
57.0	4759.66	-33.0	9141.59
54.0	5510.47	-36.0	8808.61
51.0	6206.45	-39.0	8430.11
48.0	6902.43	-42.0	8006.10
45.0	7476.93	-45.0	7476.93
42.0	8006.10	-48.0	6902.43
39.0	8430.11	-51.0	6206.45
36.0	8808.61	-54.0	5510.47
33.0	9141.59	-57.0	4759.66
30.0	9417.19	-60.0	3981.43
27.0	9665.96	-63.0	3203.21
24.0	9888.22	-66.0	2504.75
21.0	10082.53	-69.0	1965.82
18.0	10251.27	-72.0	1426.89
15.0	10398.30	-75.0	887.97
12.0	10516.04	-78.0	642.97
9.0	10607.63	-81.0	397.98
6.0	10662.61	-84.0	152.99
3.0	10693.63	-87.0	42.74
0.0	10700.62	-90.0	0.72

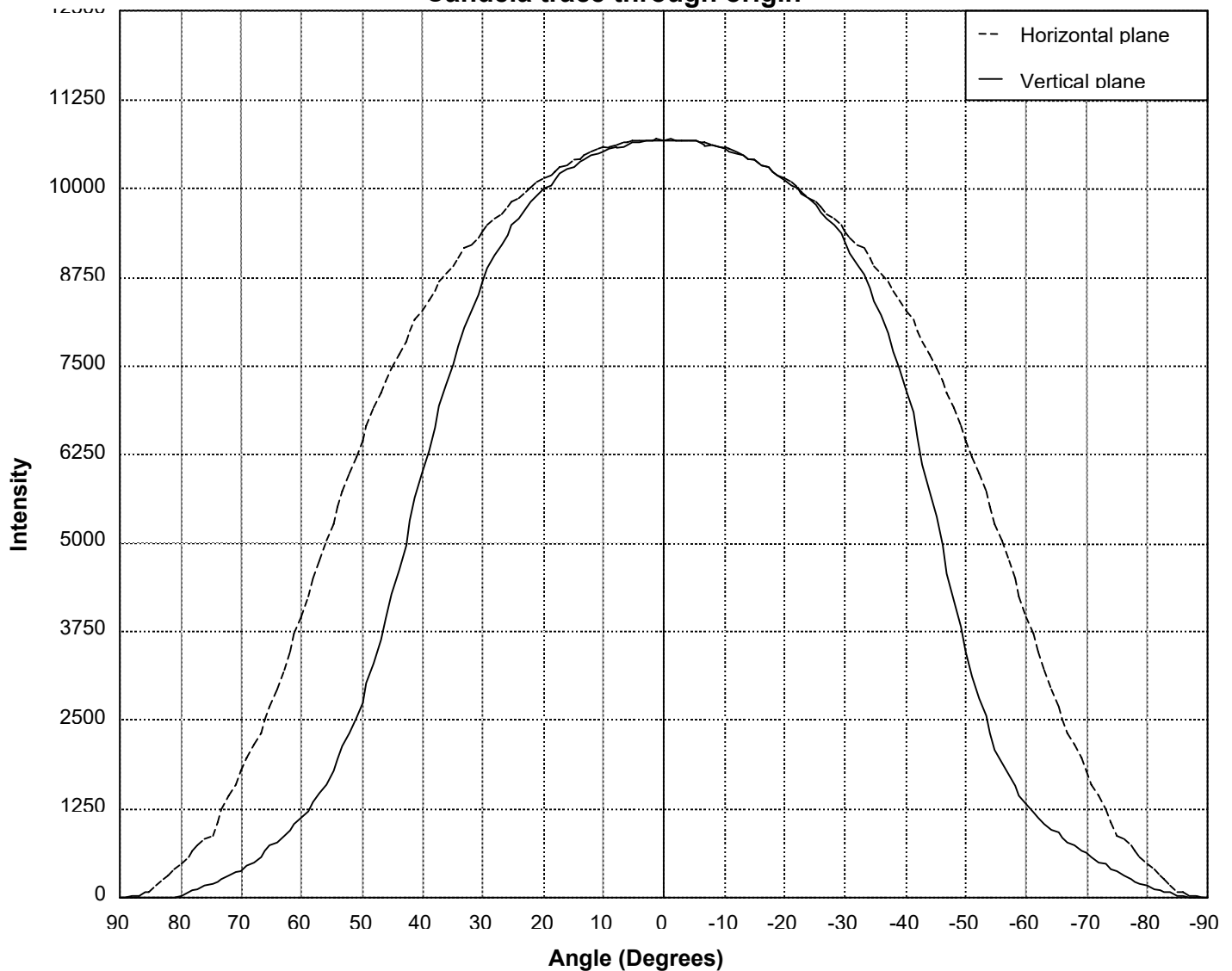
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



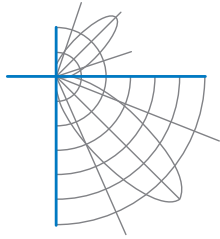
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Candela trace through origin



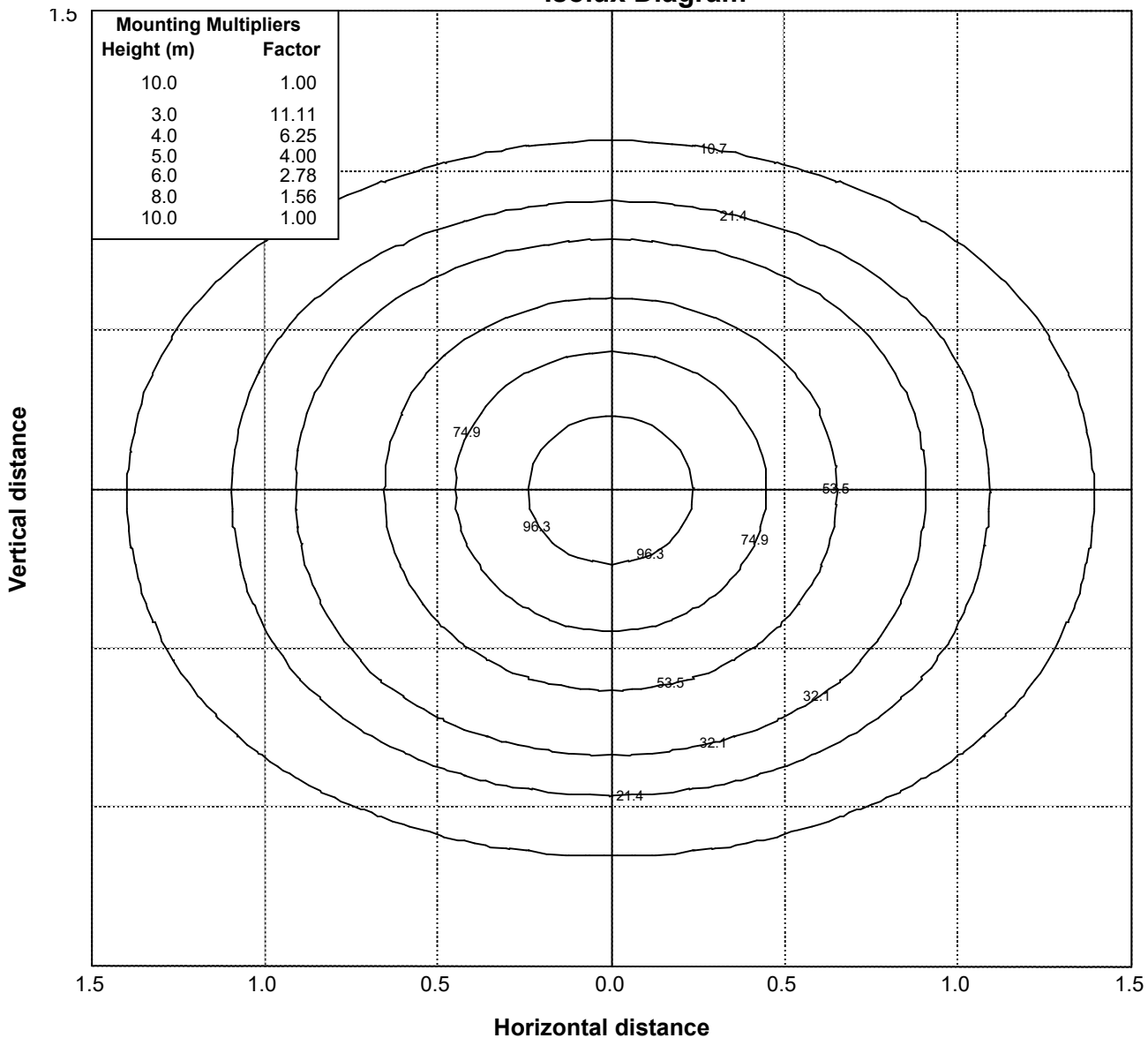
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



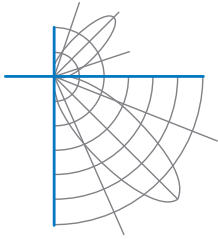
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Isolux Diagram



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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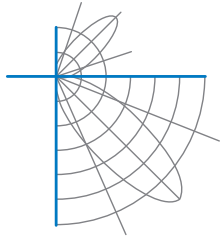
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Test Distance 9.5 m
Test Temperature 25.0 °C

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.