



Report of Test

LLIA002372-008

Catalog Number: FL-100PCS-SFYK - 80W Setting - 4000K Setting
Knuckle or trunion mounted, formed aluminum housing, white
plastic reflector, clear glass enclosure in front of LEDs
336 LEDs, 168 cool white and 168 warm white LEDs
Internal LED driver
120.0Vac, 60.00Hz, 0.6810A, 81.06W, 0.992PF, 6.0%THD(i)



Performance Summary

Total Light Output	13574	lm	Illuminance at 10m	49.0 lux
Luminaire Power	81.0	W	Beam Distance	140.0 Meters (to 0.25 lux)
Luminous Efficacy	167.6	lm/W		
Beam Spread (50%)	113.6° V x 113.9° H		Maximum Intensity	4898.5 cd
Field Spread (10%)	147.5° V x 155.7° H			
NEMA Type	7H x 7V			

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 4898.5 cd
(Luminaire orientation as tested.) 1.0° vertical
0.0° horizontal

Beam Spread At 10% of max intensity 147.5° V x 155.7° H
At 50% of max intensity 113.6° V x 113.9° H
At 90% of max intensity 51.2° V x 51.3° H

Beam Flux Total 13574 lm
To 10% of max intensity 13349 lm
To 50% of max intensity 10666 lm
To 90% of max intensity 2817 lm

Total Light Output 13573.9 lm

Signed:

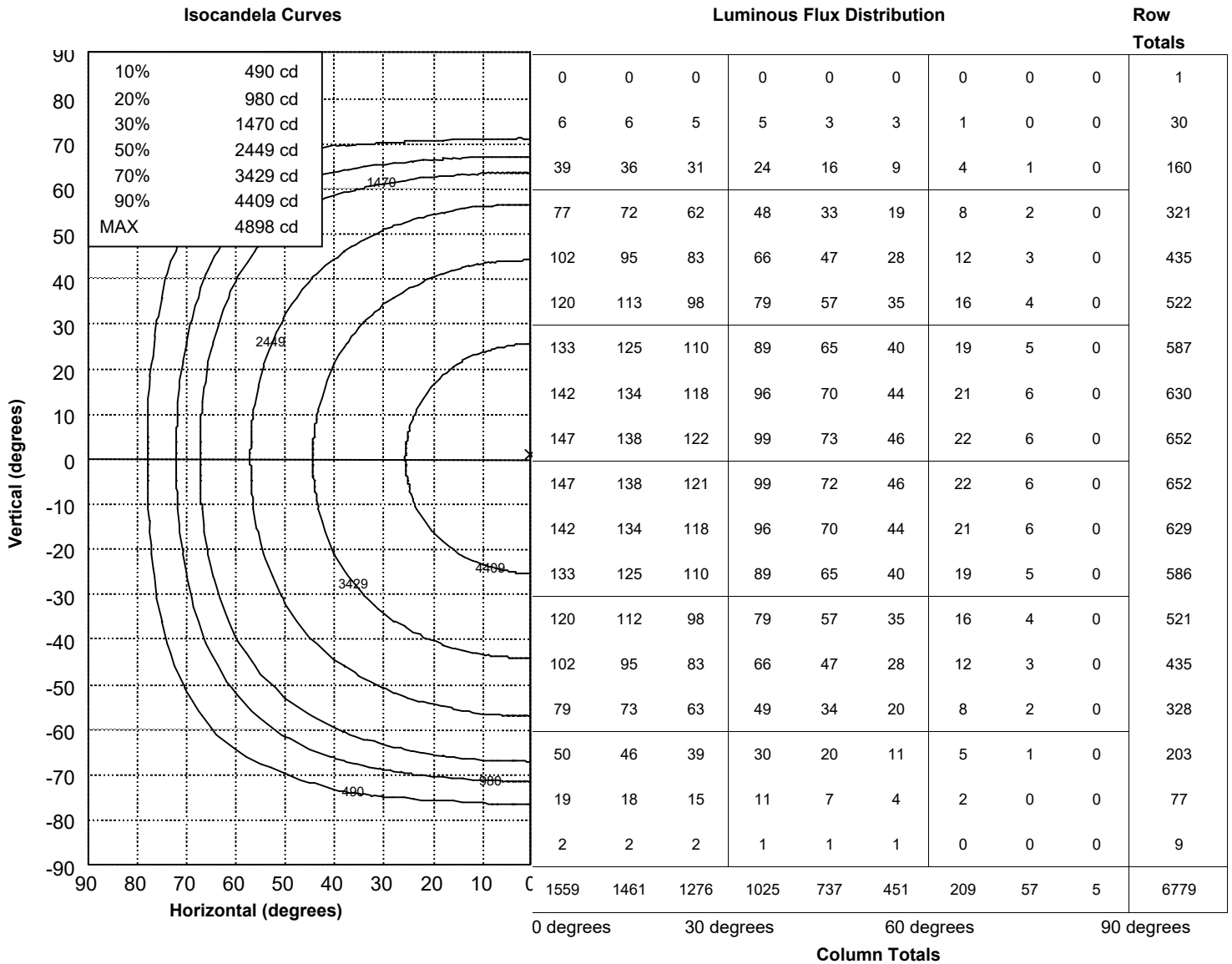
Authorized Signatory

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

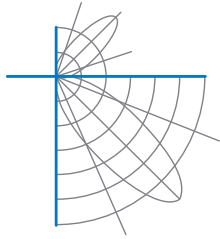


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	120	150	
-90	5.0 0.0	13.8 0.1	18.7 0.2	28.6 0.6	37.0 1.1	44.4 1.4	52.5 1.8	49.1 1.9	50.9 2.1	9
	13.9 0.1	40.5 0.4	136.0 1.9	250.5 4.3	319.8 7.4	436.2 11.2	517.8 14.8	579.0 17.6	617.4 19.3	77
	22.6 0.1	135.0 1.2	364.7 4.8	604.4 10.9	928.6 20.0	1202.3 30.0	1429.1 39.3	1589.0 46.4	1679.2 50.4	203
-60	30.6 0.2	270.5 2.3	596.0 8.2	1112.0 19.5	1575.5 34.0	1973.3 49.1	2288.1 62.8	2493.9 73.0	2601.0 78.5	328
	37.6 0.3	391.7 3.3	922.0 12.2	1582.0 27.7	2170.7 46.5	2640.3 65.7	3004.3 82.6	3243.7 95.0	3360.1 101.6	435
	43.6 0.3	496.2 4.3	1212.4 15.9	1977.7 34.7	2643.0 56.8	3176.0 79.0	3569.8 98.2	3830.9 112.3	3957.2 119.6	521
-30	48.2 0.4	577.9 5.1	1448.2 18.9	2290.6 40.1	3010.8 64.7	3574.4 88.9	3989.0 109.8	4267.0 125.1	4399.7 133.1	586
	51.6 0.5	634.2 5.7	1605.9 20.9	2506.1 43.8	3250.7 69.8	3838.3 95.5	4270.7 117.6	4558.4 133.7	4694.7 142.0	629
	53.3 0.5	664.3 6.0	1693.2 22.0	2618.9 45.7	3371.9 72.4	3972.5 98.8	4410.6 121.5	4707.9 138.0	4851.0 146.6	652
0	53.3 0.5	664.0 6.0	1695.7 22.0	2621.7 45.7	3374.6 72.5	3976.2 98.9	4416.6 121.6	4710.6 138.1	4851.4 146.7	652
	51.5 0.5	633.9 5.7	1607.0 20.9	2507.6 43.8	3254.8 69.9	3844.3 95.7	4279.3 117.8	4567.3 133.9	4704.5 142.3	630
	48.1 0.4	577.4 5.1	1449.9 18.9	2293.4 40.1	3015.8 64.8	3581.0 89.1	3999.7 110.0	4279.6 125.4	4411.7 133.4	587
30	43.4 0.3	494.9 4.3	1213.1 15.9	1978.7 34.7	2646.1 56.9	3181.3 79.1	3575.0 98.3	3839.3 112.5	3964.1 119.9	522
	37.5 0.3	388.4 3.3	921.6 12.2	1584.7 27.7	2170.0 46.5	2642.5 65.7	3003.9 82.6	3245.7 95.0	3360.7 101.6	435
	30.4 0.2	264.0 2.2	590.9 8.0	1083.3 19.1	1539.0 33.2	1950.4 48.2	2275.4 61.8	2477.6 71.7	2581.8 77.0	321
60	22.5 0.1	124.6 1.1	345.8 4.4	490.4 9.1	752.2 16.3	948.6 23.8	1096.0 30.5	1205.4 35.7	1269.4 38.6	160
	13.8 0.0	29.8 0.3	108.9 1.5	157.9 2.7	129.7 3.4	176.0 4.8	156.6 5.4	143.7 5.8	144.4 6.2	30
	4.8 0.0	9.4 0.1	5.7 0.1	9.4 0.2	6.9 0.2	2.6 0.1	1.9 0.1	1.0 0.0	0.4 0.0	1
90	5	57	209	451	737	1025	1276	1461	1559	6779

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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120.0Vac, 60.00Hz, 0.6810A, 81.06W, 0.992PF, 6.0%THD(i)

Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	50.9 2.1	49.1 1.9	52.5 1.8	44.4 1.4	37.0 1.1	28.6 0.6	18.7 0.2	13.8 0.1	5.0 0.0	9
	617.4 19.3	579.0 17.6	517.8 14.8	436.2 11.2	319.8 7.4	250.5 4.3	136.0 1.9	40.5 0.4	13.9 0.1	77
	1679.2 50.4	1589.0 46.4	1429.1 39.3	1202.3 30.0	928.6 20.0	604.4 10.9	364.7 4.8	135.0 1.2	22.6 0.1	203
-60	2601.0 78.5	2493.9 73.0	2288.1 62.8	1973.3 49.1	1575.5 34.0	1112.0 19.5	596.0 8.2	270.5 2.3	30.6 0.2	328
	3360.1 101.6	3243.7 95.0	3004.3 82.6	2640.3 65.7	2170.7 46.5	1582.0 27.7	922.0 12.2	391.7 3.3	37.6 0.3	435
	3957.2 119.6	3830.9 112.3	3569.8 98.2	3176.0 79.0	2643.0 56.8	1977.7 34.7	1212.4 15.9	496.2 4.3	43.6 0.3	521
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	4694.7 142.0	4558.4 133.7	4270.7 117.6	3838.3 95.5	3250.7 69.8	2506.1 43.8	1605.9 20.9	634.2 5.7	51.6 0.5	629
	4851.0 146.6	4707.9 138.0	4410.6 121.5	3972.5 98.8	3371.9 72.4	2618.9 45.7	1693.2 22.0	664.3 6.0	53.3 0.5	652
0	4851.4 146.7	4710.6 138.1	4416.6 121.6	3976.2 98.9	3374.6 72.5	2621.7 45.7	1695.7 22.0	664.1 6.0	53.3 0.5	652
	4704.5 142.3	4567.3 133.9	4279.3 117.8	3844.3 95.7	3254.8 69.9	2507.6 43.8	1607.0 20.9	633.9 5.7	51.5 0.5	630
	4411.7 133.4	4279.6 125.4	3999.7 110.0	3581.0 89.1	3015.8 64.8	2293.4 40.1	1449.9 18.9	577.4 5.1	48.1 0.4	587
30	3964.1 119.9	3839.3 112.5	3575.0 98.3	3181.3 79.1	2646.1 56.9	1978.7 34.7	1213.1 15.9	494.9 4.3	43.4 0.3	522
	3360.7 101.6	3245.7 95.0	3003.9 82.6	2642.5 65.7	2170.0 46.5	1584.7 27.7	921.6 12.2	388.4 3.3	37.5 0.3	435
	2581.8 77.0	2477.6 71.7	2275.4 61.8	1950.4 48.2	1539.0 33.2	1083.3 19.1	590.9 8.0	264.0 2.2	30.4 0.2	321
60	1269.4 38.6	1205.4 35.7	1096.0 30.5	948.6 23.8	752.2 16.3	490.4 9.1	345.8 4.4	124.6 1.1	22.5 0.1	160
	144.4 6.2	143.7 5.8	156.6 5.4	176.0 4.8	129.7 3.4	157.9 2.7	108.9 1.5	29.8 0.3	13.8 0.0	30
	0.4 0.0	1.0 0.0	1.9 0.1	2.6 0.1	6.9 0.2	9.4 0.2	5.7 0.1	9.4 0.1	4.8 0.0	1
90	1559	1461	1276	1025	737	451	209	57	5	6779

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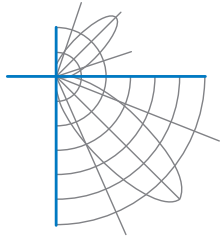
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.23	0.0	4890.52
87.0	0.07	-3.0	4880.62
84.0	0.10	-6.0	4864.21
81.0	0.62	-9.0	4825.92
78.0	25.77	-12.0	4780.63
75.0	126.66	-15.0	4724.35
72.0	394.81	-18.0	4655.07
69.0	749.55	-21.0	4567.09
66.0	1139.67	-24.0	4456.80
63.0	1554.36	-27.0	4345.59
60.0	2001.72	-30.0	4218.72
57.0	2420.84	-33.0	4078.58
54.0	2685.09	-36.0	3925.87
51.0	2937.78	-39.0	3755.50
48.0	3170.03	-42.0	3580.59
45.0	3387.50	-45.0	3385.29
42.0	3585.64	-48.0	3171.39
39.0	3760.82	-51.0	2948.28
36.0	3938.52	-54.0	2703.65
33.0	4092.70	-57.0	2443.42
30.0	4229.06	-60.0	2170.51
27.0	4353.63	-63.0	1882.30
24.0	4466.32	-66.0	1586.71
21.0	4575.97	-69.0	1263.19
18.0	4663.38	-72.0	928.66
15.0	4735.21	-75.0	620.86
12.0	4786.50	-78.0	357.71
9.0	4832.26	-81.0	168.81
6.0	4867.19	-84.0	52.46
3.0	4884.76	-87.0	15.48
0.0	4890.52	-90.0	4.53

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.42	0.0	4890.52
87.0	32.15	-3.0	4887.41
84.0	114.66	-6.0	4860.69
81.0	298.10	-9.0	4829.99
78.0	481.54	-12.0	4784.84
75.0	664.97	-15.0	4731.65
72.0	975.75	-18.0	4668.76
69.0	1286.52	-21.0	4576.76
66.0	1597.30	-24.0	4474.52
63.0	1887.28	-27.0	4360.79
60.0	2166.87	-30.0	4235.39
57.0	2446.46	-33.0	4096.40
54.0	2710.87	-36.0	3939.13
51.0	2944.94	-39.0	3769.53
48.0	3179.01	-42.0	3587.58
45.0	3387.64	-45.0	3387.64
42.0	3587.58	-48.0	3179.01
39.0	3769.53	-51.0	2944.94
36.0	3939.13	-54.0	2710.87
33.0	4096.40	-57.0	2446.46
30.0	4235.39	-60.0	2166.87
27.0	4360.79	-63.0	1887.28
24.0	4474.52	-66.0	1597.30
21.0	4576.76	-69.0	1286.52
18.0	4668.76	-72.0	975.75
15.0	4731.65	-75.0	664.97
12.0	4784.84	-78.0	481.54
9.0	4829.99	-81.0	298.10
6.0	4860.69	-84.0	114.66
3.0	4887.41	-87.0	32.15
0.0	4890.52	-90.0	0.42

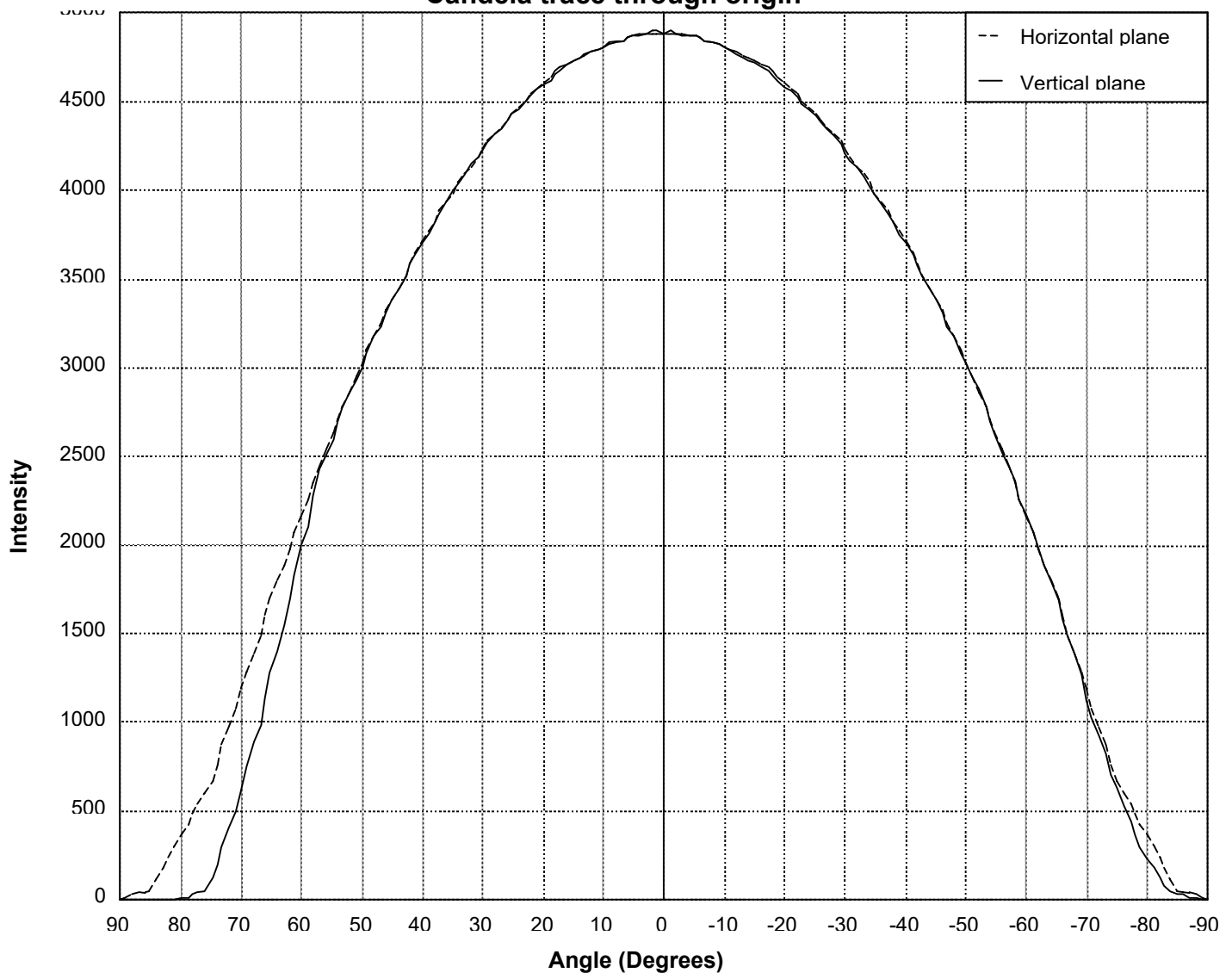
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



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Candela trace through origin



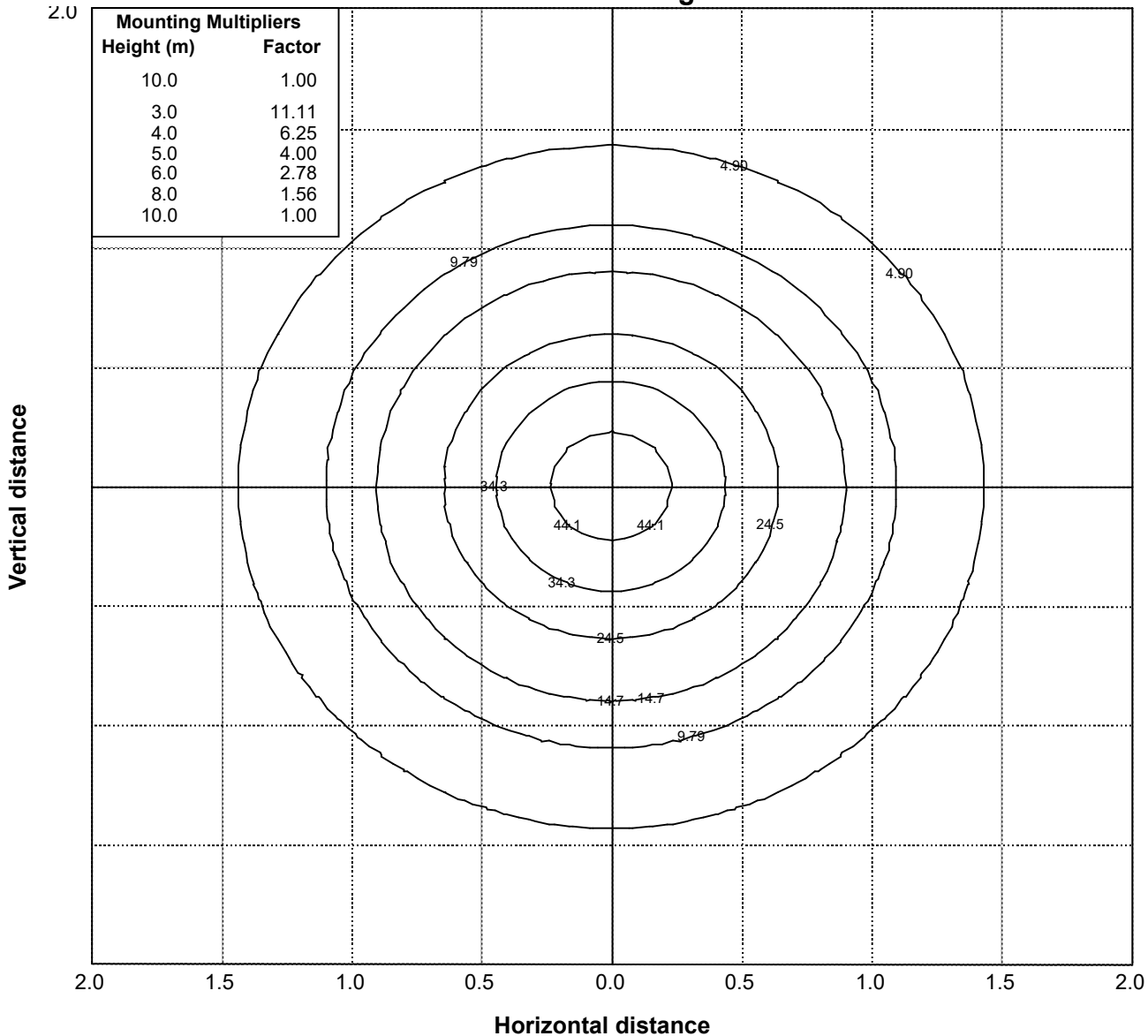
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



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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 24.9°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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