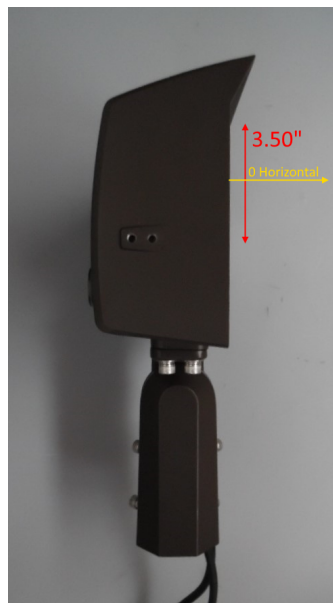


# Report of Test

## LLIA002372-007

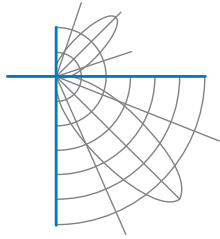
Catalog Number: FL-100PCS-SFYK - 60W Setting - 4000K Setting  
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs  
336 LEDs, 168 cool white and 168 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.5151A, 61.02W, 0.987PF, 6.9%THD(i)



### Performance Summary

Total Light Output	10441	lm	Illuminance at 10m	36.7 lux
Luminaire Power	61.0	W	Beam Distance	122.8 Meters (to 0.25 lux)
Luminous Efficacy	171.1	lm/W		
Beam Spread (50%)	113.7° V x 114.0° H		Maximum Intensity	3769.5 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**



**Test Report No. LLIA002372-007**

Catalog Number: FL-100PCS-SFYK - 60W Setting - 4000K Setting  
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Internal LED driver  
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**Floodlight Summary:**

Report data based on absolute values as measured.

Maximum Luminous Intensity 3769.5 cd  
(Luminaire orientation as tested.) 0.5° vertical  
0.0° horizontal

Beam Spread At 10% of max intensity 147.5° V x 155.7° H  
At 50% of max intensity 113.7° V x 114.0° H  
At 90% of max intensity 51.7° V x 51.4° H

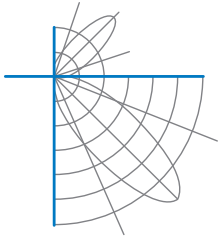
Beam Flux Total 10440 lm  
To 10% of max intensity 10281 lm  
To 50% of max intensity 8201 lm  
To 90% of max intensity 2137 lm

Total Light Output 10440.4 lm

Signed:

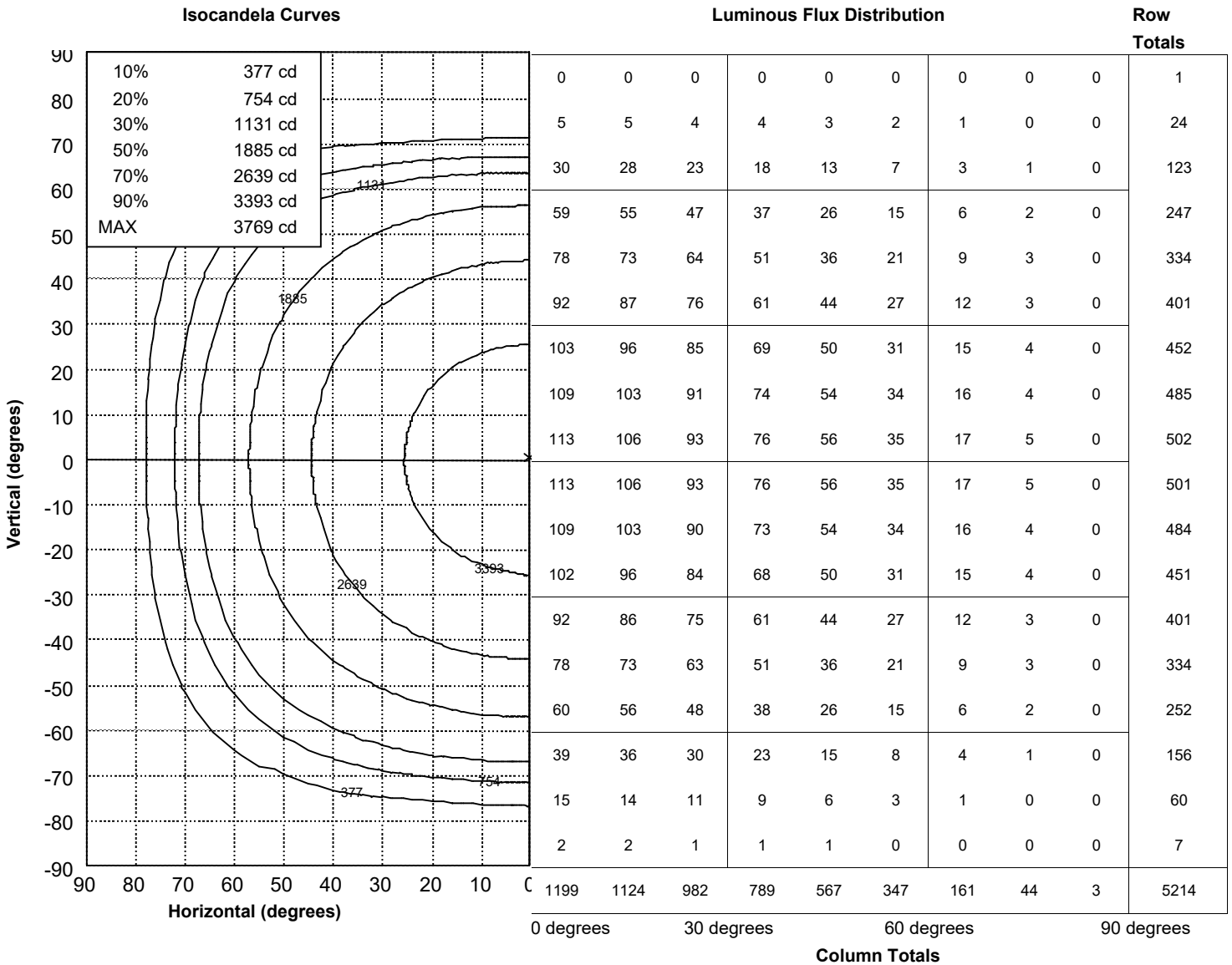
\_\_\_\_\_  
Authorized Signatory

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

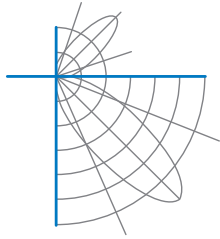


**Test Report No. LLIA002372-007**

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Internal LED driver  
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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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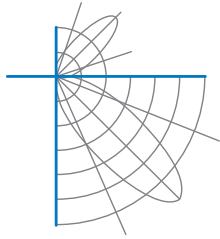
Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals										
	-90	-60	-30	0	30	60	90	120	150											
-90	3.8 0.0	10.7 0.1	14.4 0.2	19.5 0.5	22.2 0.8	33.9 1.1	37.1 1.4	33.2 1.5	32.9 1.7	7										
	10.8 0.0	31.0 0.3	104.8 1.4	192.6 3.4	238.2 5.7	335.0 8.7	397.3 11.5	442.7 13.6	475.4 15.0	60										
	17.5 0.1	104.1 0.9	280.9 3.7	464.9 8.4	714.5 15.4	925.6 23.1	1099.3 30.2	1223.3 35.6	1292.8 38.7	156										
-60	23.6 0.1	208.5 1.7	455.8 6.3	855.8 15.0	1212.1 26.1	1518.5 37.8	1761.9 48.3	1919.3 56.2	2001.1 60.4	252										
	29.1 0.2	301.6 2.5	710.0 9.4	1217.9 21.3	1670.4 35.8	2031.6 50.5	2311.0 63.5	2497.3 73.1	2586.4 78.1	334										
	33.6 0.3	382.2 3.3	932.7 12.2	1521.5 26.7	2034.3 43.7	2443.8 60.8	2745.8 75.5	2946.5 86.3	3046.1 92.0	401										
-30	37.2 0.3	445.3 3.9	1113.9 14.5	1762.4 30.8	2316.0 49.7	2749.0 68.4	3068.8 84.4	3283.1 96.2	3381.6 102.3	451										
	39.8 0.4	488.2 4.4	1236.5 16.1	1927.2 33.6	2497.8 53.7	2953.0 73.4	3285.2 90.4	3506.7 102.8	3611.5 109.2	484										
	41.2 0.4	511.0 4.6	1302.9 16.9	2015.3 35.1	2592.4 55.7	3056.1 76.0	3394.0 93.4	3618.8 106.1	3731.1 112.7	501										
0	41.2 0.4	511.1 4.6	1303.9 16.9	2015.5 35.1	2595.6 55.8	3059.2 76.1	3396.6 93.5	3620.1 106.2	3733.5 112.8	502										
	39.8 0.4	488.3 4.4	1236.8 16.1	1931.1 33.7	2503.5 53.8	2958.0 73.6	3290.3 90.5	3513.8 103.0	3617.2 109.4	485										
	37.2 0.3	444.9 3.9	1115.9 14.5	1764.5 30.9	2320.0 49.8	2755.1 68.5	3074.7 84.6	3292.5 96.4	3392.4 102.6	452										
30	33.5 0.3	381.1 3.3	933.6 12.2	1522.7 26.7	2036.1 43.8	2447.0 60.8	2749.0 75.6	2952.8 86.5	3049.0 92.2	401										
	29.0 0.2	299.1 2.5	709.6 9.4	1218.5 21.3	1669.7 35.8	2033.5 50.5	2311.7 63.5	2494.6 73.1	2583.9 78.1	334										
	23.5 0.1	203.4 1.7	452.0 6.2	834.0 14.7	1184.5 25.6	1503.2 37.1	1752.2 47.4	1905.6 55.0	1987.1 59.1	247										
60	17.3 0.1	96.1 0.9	266.4 3.4	377.8 7.1	577.1 12.6	729.2 18.3	844.2 23.5	930.9 27.6	968.1 29.8	123										
	10.7 0.0	22.7 0.2	83.8 1.1	121.4 2.1	88.4 2.7	132.1 3.7	114.5 4.2	101.4 4.6	101.1 5.0	24										
	3.7 0.0	7.3 0.1	4.4 0.1	5.4 0.2	3.4 0.2	1.8 0.1	1.1 0.1	0.7 0.0	0.5 0.0	1										
90	<table border="1"> <tr> <td>3</td> <td>44</td> <td>161</td> <td>347</td> <td>567</td> <td>789</td> <td>982</td> <td>1124</td> <td>1199</td> <td>5214</td> </tr> </table>									3	44	161	347	567	789	982	1124	1199	5214	5214
3	44	161	347	567	789	982	1124	1199	5214											

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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336 LEDs, 168 cool white and 168 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.5151A, 61.02W, 0.987PF, 6.9%THD(i)

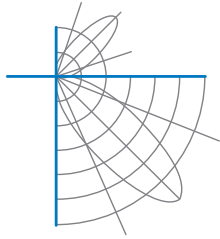
Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	32.9 1.7	33.2 1.5	37.1 1.4	33.9 1.1	22.2 0.8	19.5 0.5	14.4 0.2	10.7 0.1	3.8 0.0	7
	475.4 15.0	442.7 13.6	397.3 11.5	335.0 8.7	238.2 5.7	192.6 3.4	104.8 1.4	31.0 0.3	10.8 0.0	60
	1292.8 38.7	1223.3 35.6	1099.3 30.2	925.6 23.1	714.5 15.4	464.9 8.4	280.9 3.7	104.1 0.9	17.5 0.1	156
-60	2001.1 60.4	1919.3 56.2	1761.9 48.3	1518.5 37.8	1212.1 26.1	855.8 15.0	455.8 6.3	208.5 1.7	23.6 0.1	252
	2586.4 78.1	2497.3 73.1	2311.0 63.5	2031.6 50.5	1670.4 35.8	1217.9 21.3	710.0 9.4	301.6 2.5	29.1 0.2	334
	3046.1 92.0	2946.5 86.3	2745.8 75.5	2443.8 60.8	2034.3 43.7	1521.5 26.7	932.7 12.2	382.2 3.3	33.6 0.3	401
-30	3381.6 102.3	3283.1 96.2	3068.8 84.4	2749.0 68.4	2316.0 49.7	1762.4 30.8	1113.9 14.5	445.3 3.9	37.2 0.3	451
	3611.5 109.2	3506.7 102.8	3285.2 90.4	2953.0 73.4	2497.8 53.7	1927.2 33.6	1236.5 16.1	488.2 4.4	39.8 0.4	484
	3731.1 112.7	3618.8 106.1	3394.0 93.4	3056.1 76.0	2592.4 55.7	2015.3 35.1	1302.9 16.9	511.0 4.6	41.2 0.4	501
0	3733.5 112.8	3620.1 106.2	3396.6 93.5	3059.2 76.1	2595.6 55.8	2015.5 35.1	1303.9 16.9	511.1 4.6	41.2 0.4	502
	3617.2 109.4	3513.8 103.0	3290.3 90.5	2958.0 73.6	2503.5 53.8	1931.1 33.7	1236.8 16.1	488.3 4.4	39.8 0.4	485
	3392.4 102.6	3292.5 96.4	3074.7 84.6	2755.1 68.5	2320.0 49.8	1764.5 30.9	1115.9 14.5	444.9 3.9	37.2 0.3	452
30	3049.0 92.2	2952.8 86.5	2749.0 75.6	2447.0 60.8	2036.1 43.8	1522.7 26.7	933.6 12.2	381.1 3.3	33.5 0.3	401
	2583.9 78.1	2494.6 73.1	2311.7 63.5	2033.5 50.5	1669.7 35.8	1218.5 21.3	709.6 9.4	299.1 2.5	29.0 0.2	334
	1987.1 59.1	1905.6 55.0	1752.2 47.4	1503.2 37.1	1184.5 25.6	834.0 14.7	452.0 6.2	203.4 1.7	23.5 0.1	247
60	968.1 29.8	930.9 27.6	844.2 23.5	729.2 18.3	577.1 12.6	377.8 7.1	266.4 3.4	96.1 0.9	17.3 0.1	123
	101.1 5.0	101.4 4.6	114.5 4.2	132.1 3.7	88.4 2.7	121.4 2.1	83.8 1.1	22.7 0.2	10.7 0.0	24
	0.5 0.0	0.7 0.0	1.1 0.1	1.8 0.1	3.4 0.2	5.4 0.2	4.4 0.1	7.3 0.1	3.7 0.0	1
90	1199	1124	982	789	567	347	161	44	3	5214

**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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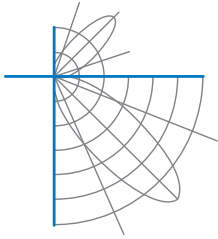
Catalog Number: FL-100PCS-SFYK - 60W Setting - 4000K Setting  
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120.0Vac, 60.00Hz, 0.5151A, 61.02W, 0.987PF, 6.9%THD(i)

**Candela trace through origin.**

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.27	0.0	3758.63
87.0	0.00	-3.0	3752.23
84.0	0.12	-6.0	3745.45
81.0	0.48	-9.0	3712.73
78.0	19.76	-12.0	3669.25
75.0	97.18	-15.0	3634.89
72.0	302.85	-18.0	3582.92
69.0	575.43	-21.0	3513.04
66.0	874.11	-24.0	3425.93
63.0	1197.42	-27.0	3343.67
60.0	1539.59	-30.0	3253.01
57.0	1860.51	-33.0	3134.52
54.0	2068.69	-36.0	3016.65
51.0	2264.81	-39.0	2887.26
48.0	2434.83	-42.0	2753.26
45.0	2596.07	-45.0	2600.01
42.0	2754.47	-48.0	2439.86
39.0	2889.20	-51.0	2263.37
36.0	3033.44	-54.0	2082.71
33.0	3141.28	-57.0	1878.88
30.0	3260.31	-60.0	1670.46
27.0	3354.80	-63.0	1451.74
24.0	3434.00	-66.0	1223.61
21.0	3515.79	-69.0	969.55
18.0	3586.08	-72.0	713.75
15.0	3641.14	-75.0	478.10
12.0	3672.70	-78.0	275.65
9.0	3713.48	-81.0	130.63
6.0	3749.19	-84.0	40.29
3.0	3757.20	-87.0	11.93
0.0	3758.63	-90.0	3.48

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.33	0.0	3758.63
87.0	24.84	-3.0	3751.01
84.0	88.40	-6.0	3738.55
81.0	229.57	-9.0	3715.56
78.0	370.73	-12.0	3678.15
75.0	511.90	-15.0	3639.80
72.0	751.32	-18.0	3586.72
69.0	990.74	-21.0	3513.01
66.0	1230.16	-24.0	3439.59
63.0	1453.58	-27.0	3355.88
60.0	1668.99	-30.0	3256.95
57.0	1884.41	-33.0	3147.15
54.0	2087.94	-36.0	3028.35
51.0	2267.72	-39.0	2900.44
48.0	2447.49	-42.0	2763.43
45.0	2609.02	-45.0	2609.02
42.0	2763.43	-48.0	2447.49
39.0	2900.44	-51.0	2267.72
36.0	3028.35	-54.0	2087.94
33.0	3147.15	-57.0	1884.41
30.0	3256.95	-60.0	1668.99
27.0	3355.88	-63.0	1453.58
24.0	3439.59	-66.0	1230.16
21.0	3513.01	-69.0	990.74
18.0	3586.72	-72.0	751.32
15.0	3639.80	-75.0	511.90
12.0	3678.15	-78.0	370.73
9.0	3715.56	-81.0	229.57
6.0	3738.55	-84.0	88.40
3.0	3751.01	-87.0	24.84
0.0	3758.63	-90.0	0.33

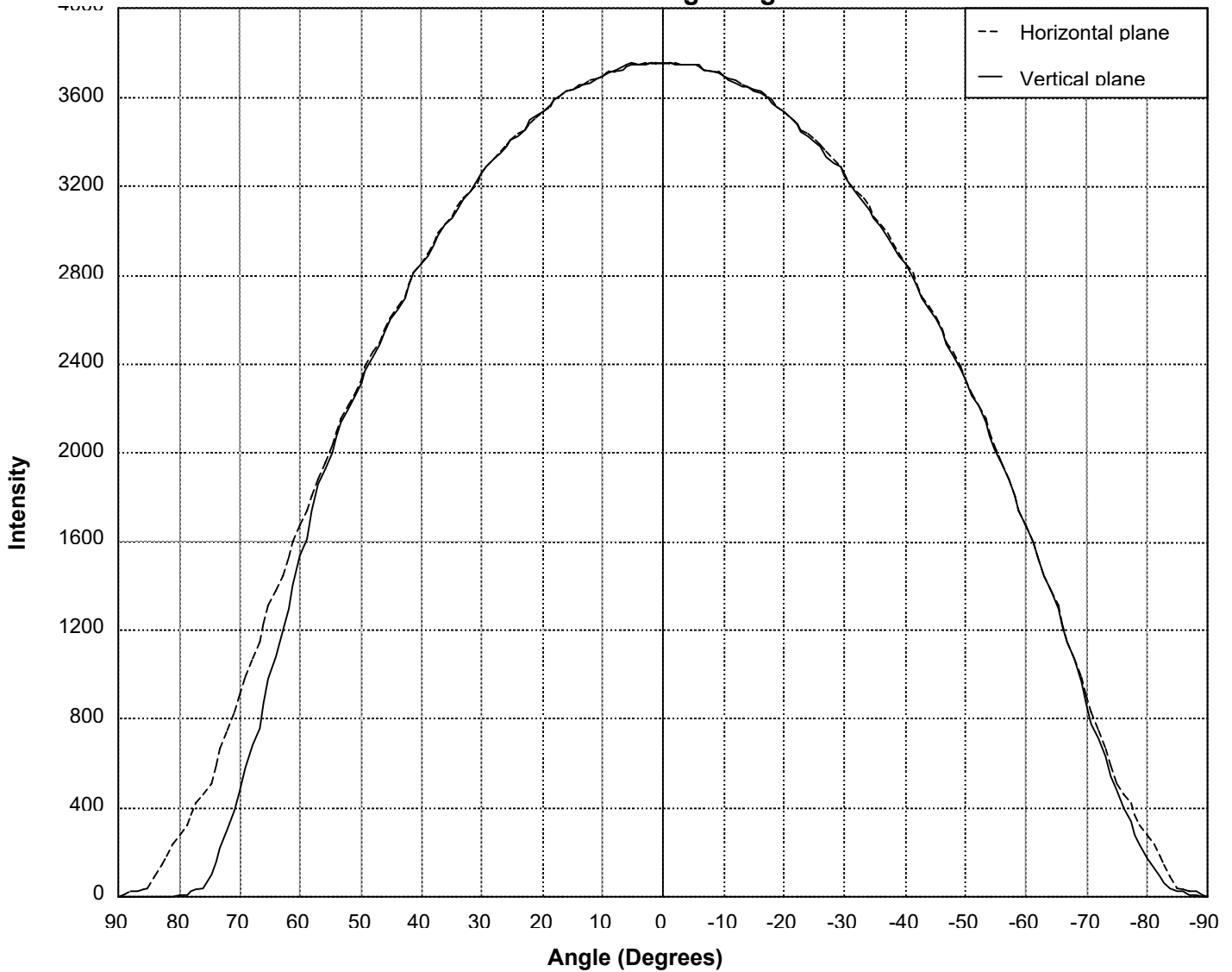
Note: Luminaire orientation as tested.  
The left and right sides of photometric data have been averaged.



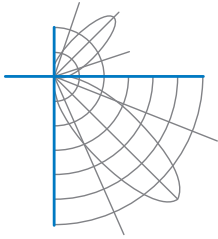
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120.0Vac, 60.00Hz, 0.5151A, 61.02W, 0.987PF, 6.9%THD(i)

**Candela trace through origin**



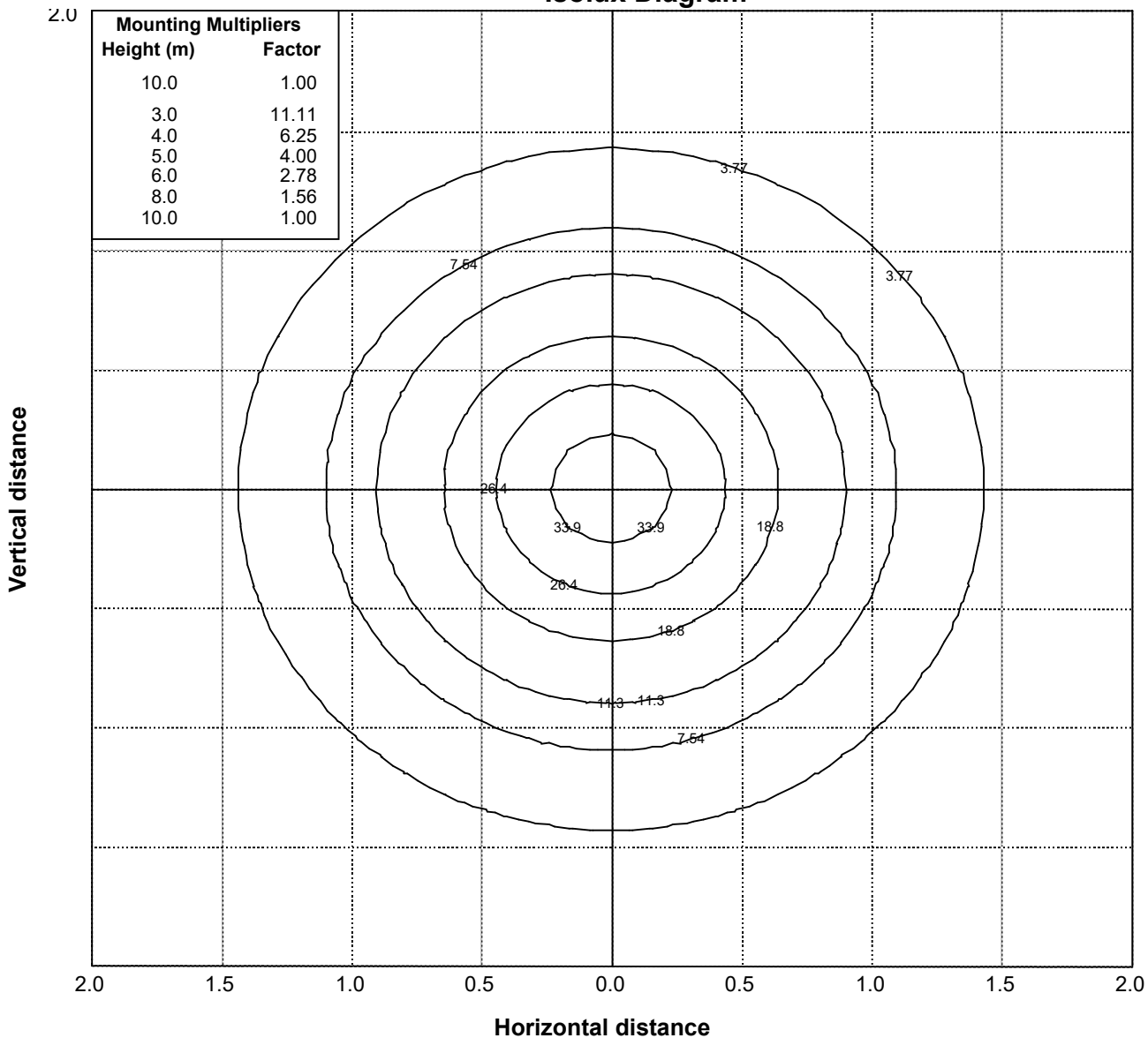
Note: The intensity units are expressed as candelas.  
The left and right sides of photometric data have been averaged.  
Both the vertical and the horizontal trace pass through the nadir.



**Test Report No. LLIA002372-007**

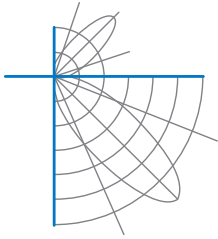
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**Isolux Diagram**



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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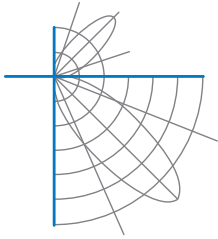
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**Test Distance** 9.5 m  
**Test Temperature** 24.8 °C

**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.