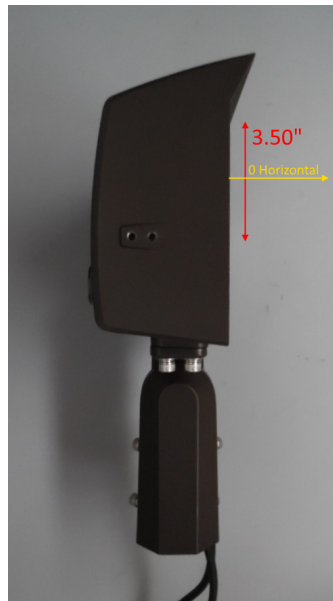


# Report of Test

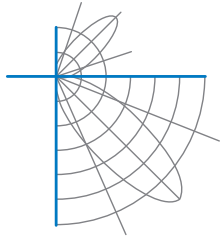
## LLIA002372-009

Catalog Number: FL-100PCS-SFYK - 100W 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, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)



Performance Summary				
Total Light Output	15760	lm	Illuminance at 10m	56.8 lux
Luminaire Power	96.2	W	Beam Distance	150.8 Meters (to 0.25 lux)
Luminous Efficacy	163.8	lm/W		
Beam Spread (50%)	113.7° V x 114.0° H		Maximum Intensity	5684.0 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. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W 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, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

**Floodlight Summary:**

Report data based on absolute values as measured.

Maximum Luminous Intensity 5684.0 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 51.2° V x 51.6° H

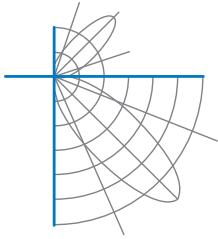
Beam Flux Total 15760 lm  
To 10% of max intensity 15520 lm  
To 50% of max intensity 12382 lm  
To 90% of max intensity 3274 lm

Total Light Output 15759.5 lm

Signed:

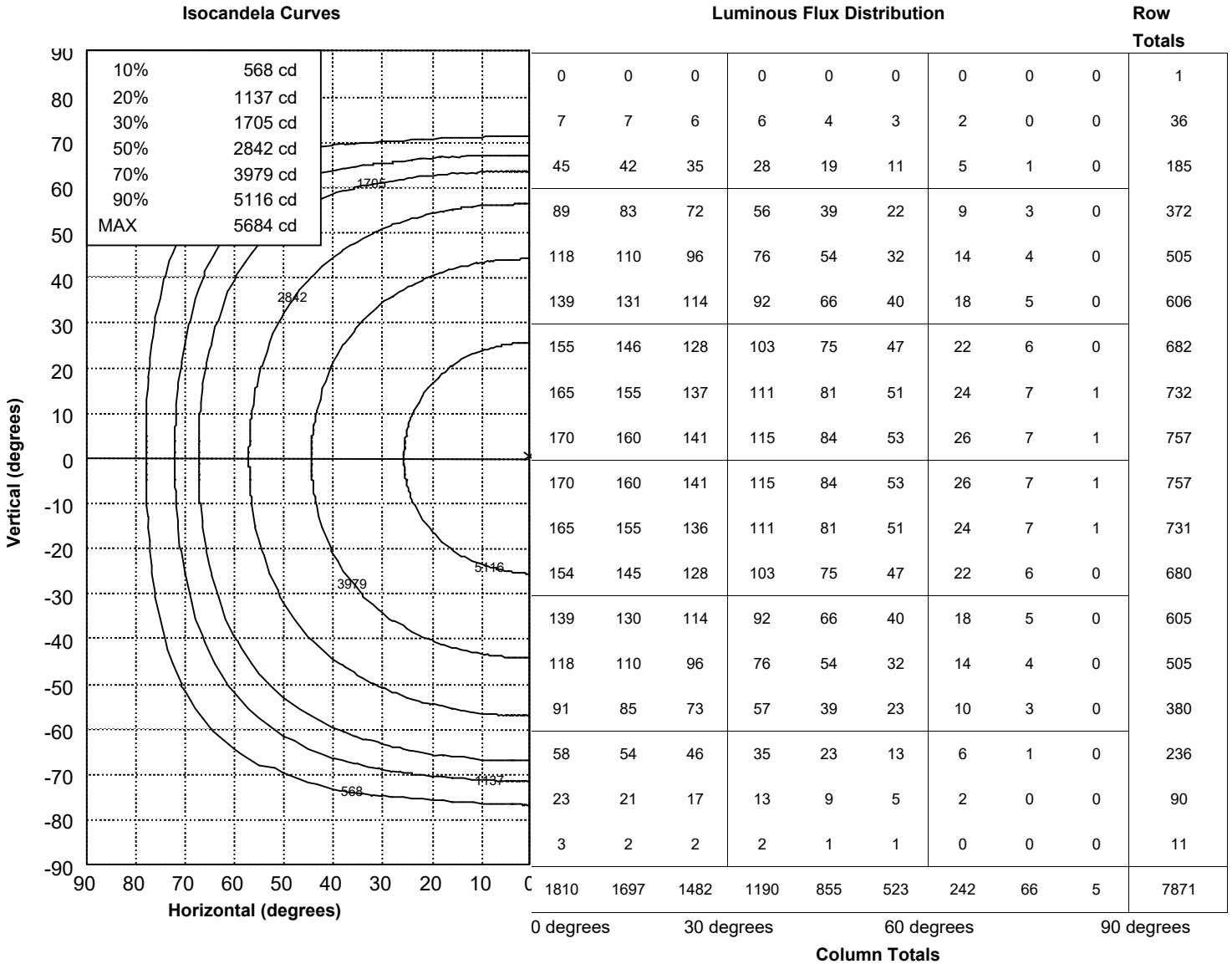
\_\_\_\_\_  
Authorized Signatory

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

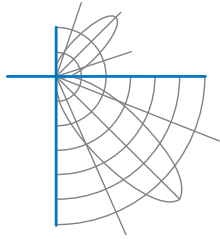


**Test Report No. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W 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, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)



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.



**Test Report No. LLIA002372-009**

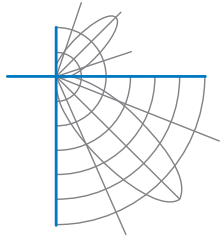
Catalog Number: FL-100PCS-SFYK - 100W Setting - 4000K Setting  
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs  
336 LEDs, 168 cool white and 168 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	180	270	
-90	5.7 0.0	15.9 0.1	21.6 0.3	29.3 0.7	33.4 1.3	51.0 1.7	55.9 2.1	50.0 2.3	49.6 2.5	11
	16.1 0.1	46.3 0.5	157.6 2.2	290.4 5.1	358.7 8.6	505.4 13.1	599.4 17.3	668.5 20.6	717.7 22.6	90
	26.1 0.1	156.4 1.4	423.1 5.5	701.7 12.7	1078.5 23.2	1397.4 34.8	1660.0 45.6	1846.7 53.8	1952.2 58.4	236
-60	35.3 0.2	313.6 2.6	686.5 9.5	1291.3 22.6	1830.2 39.4	2292.3 57.0	2659.5 73.0	2898.3 84.8	3023.7 91.2	380
	43.4 0.3	454.3 3.8	1070.4 14.1	1837.4 32.2	2522.6 54.0	3067.5 76.3	3490.6 95.9	3770.0 110.4	3904.8 117.9	505
	50.3 0.4	575.6 5.0	1407.3 18.4	2296.7 40.3	3070.3 66.0	3689.9 91.7	4145.4 114.0	4451.3 130.4	4597.2 138.9	605
-30	55.6 0.5	670.5 5.9	1681.1 21.9	2660.9 46.5	3496.7 75.1	4151.8 103.2	4635.7 127.5	4958.0 145.3	5110.7 154.5	680
	59.5 0.5	736.0 6.6	1865.0 24.3	2910.2 50.8	3774.9 81.1	4458.7 110.9	4961.4 136.5	5296.3 155.2	5454.4 164.9	731
	61.5 0.6	770.6 7.0	1965.6 25.5	3039.9 53.0	3915.5 84.1	4612.2 114.8	5125.0 141.1	5467.2 160.3	5628.9 170.3	757
0	61.5 0.6	770.1 7.0	1967.7 25.6	3042.0 53.0	3919.6 84.2	4616.8 114.9	5128.9 141.2	5470.5 160.4	5632.3 170.4	757
	59.5 0.5	735.5 6.6	1865.7 24.3	2912.3 50.8	3778.8 81.2	4464.2 111.0	4968.1 136.7	5304.7 155.5	5463.4 165.2	732
	55.6 0.5	669.9 5.9	1682.9 21.9	2663.4 46.6	3502.7 75.2	4159.0 103.4	4642.9 127.7	4969.8 145.6	5121.5 154.9	682
30	50.1 0.4	573.8 5.0	1407.9 18.5	2297.1 40.3	3073.0 66.1	3693.8 91.8	4150.6 114.1	4458.1 130.6	4604.1 139.2	606
	43.3 0.3	450.2 3.8	1069.2 14.1	1838.9 32.2	2520.4 54.0	3067.8 76.3	3488.3 95.8	3767.2 110.3	3901.6 117.9	505
	35.1 0.2	305.8 2.6	680.0 9.3	1256.4 22.1	1787.2 38.5	2268.4 55.9	2642.5 71.5	2875.9 83.0	2998.2 89.2	372
60	25.9 0.1	144.2 1.3	400.6 5.1	568.0 10.6	868.7 19.0	1097.8 27.6	1272.0 35.4	1400.8 41.6	1459.8 44.9	185
	15.9 0.1	33.8 0.4	125.9 1.7	181.9 3.1	132.2 4.0	198.6 5.6	171.6 6.4	152.0 7.0	151.4 7.4	36
	5.5 0.0	10.8 0.1	6.5 0.1	8.1 0.3	5.1 0.3	2.7 0.1	1.7 0.1	1.0 0.1	0.7 0.0	1
90	<div style="display: flex; justify-content: space-around;"> <span>5</span> <span>66</span> <span>242</span> <span>523</span> <span>855</span> <span>1190</span> <span>1482</span> <span>1697</span> <span>1810</span> </div>									7871
<b>Lumen Totals</b>										

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.

Legend:

<b>candelas</b>
lumens



**Test Report No. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W 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, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

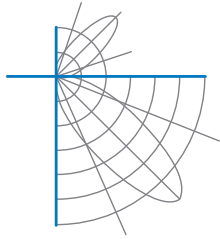
Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	49.6 2.5	50.0 2.3	55.9 2.1	51.0 1.7	33.4 1.3	29.3 0.7	21.6 0.3	15.9 0.1	5.7 0.0	11
	717.7 22.6	668.5 20.6	599.4 17.3	505.4 13.1	358.7 8.6	290.4 5.1	157.6 2.2	46.3 0.5	16.1 0.1	90
	1952.2 58.4	1846.7 53.8	1660.0 45.6	1397.4 34.8	1078.5 23.2	701.7 12.7	423.1 5.5	156.4 1.4	26.1 0.1	236
-60	3023.7 91.2	2898.3 84.8	2659.5 73.0	2292.3 57.0	1830.2 39.4	1291.3 22.6	686.5 9.5	313.6 2.6	35.3 0.2	380
	3904.8 117.9	3770.0 110.4	3490.6 95.9	3067.5 76.3	2522.6 54.0	1837.4 32.2	1070.4 14.1	454.3 3.8	43.4 0.3	505
	4597.2 138.9	4451.3 130.4	4145.4 114.0	3689.9 91.7	3070.3 66.0	2296.7 40.3	1407.3 18.4	575.6 5.0	50.3 0.4	605
-30	5110.7 154.5	4958.0 145.3	4635.7 127.5	4151.8 103.2	3496.7 75.1	2660.9 46.5	1681.1 21.9	670.5 5.9	55.6 0.5	680
	5454.4 164.9	5296.3 155.2	4961.4 136.5	4458.7 110.9	3774.9 81.1	2910.2 50.8	1865.0 24.3	736.0 6.6	59.5 0.5	731
	5628.9 170.3	5467.2 160.3	5125.0 141.1	4612.2 114.8	3915.5 84.1	3039.9 53.0	1965.6 25.5	770.6 7.0	61.5 0.6	757
0	5632.3 170.4	5470.5 160.4	5128.9 141.2	4616.8 114.9	3919.6 84.2	3042.0 53.0	1967.7 25.6	770.1 7.0	61.5 0.6	757
	5463.4 165.2	5304.7 155.5	4968.1 136.7	4464.2 111.0	3778.8 81.2	2912.3 50.8	1865.7 24.3	735.5 6.6	59.5 0.5	732
	5121.5 154.9	4969.8 145.6	4642.9 127.7	4159.0 103.4	3502.7 75.2	2663.4 46.6	1682.9 21.9	669.9 5.9	55.6 0.5	682
30	4604.1 139.2	4458.1 130.6	4150.6 114.1	3693.8 91.8	3073.0 66.1	2297.1 40.3	1407.9 18.5	573.8 5.0	50.1 0.4	606
	3901.6 117.9	3767.2 110.3	3488.3 95.8	3067.8 76.3	2520.4 54.0	1838.9 32.2	1069.2 14.1	450.2 3.8	43.3 0.3	505
	2998.2 89.2	2875.9 83.0	2642.5 71.5	2268.4 55.9	1787.2 38.5	1256.4 22.1	680.0 9.3	305.8 2.6	35.1 0.2	372
60	1459.8 44.9	1400.8 41.6	1272.0 35.4	1097.8 27.6	868.7 19.0	568.0 10.6	400.6 5.1	144.2 1.3	25.9 0.1	185
	151.4 7.4	152.0 7.0	171.6 6.4	198.6 5.6	132.2 4.0	181.9 3.1	125.9 1.7	33.8 0.4	15.9 0.1	36
	0.7 0.0	1.0 0.1	1.7 0.1	2.7 0.1	5.1 0.3	8.1 0.3	6.5 0.1	10.8 0.1	5.5 0.0	1
90	1810	1697	1482	1190	855	523	242	66	5	7871

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.



**Test Report No. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W 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

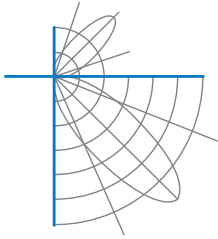
120.0Vac, 60.00Hz, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

**Candela trace through origin.**

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.25	0.0	5683.12
87.0	0.11	-3.0	5671.36
84.0	0.09	-6.0	5643.61
81.0	0.78	-9.0	5600.68
78.0	29.56	-12.0	5546.34
75.0	145.19	-15.0	5481.95
72.0	455.51	-18.0	5399.38
69.0	866.93	-21.0	5295.92
66.0	1321.27	-24.0	5178.59
63.0	1802.28	-27.0	5048.91
60.0	2322.94	-30.0	4900.31
57.0	2809.86	-33.0	4740.19
54.0	3117.89	-36.0	4564.08
51.0	3410.67	-39.0	4365.45
48.0	3674.69	-42.0	4153.99
45.0	3926.15	-45.0	3928.31
42.0	4155.68	-48.0	3681.55
39.0	4368.95	-51.0	3423.69
36.0	4569.95	-54.0	3140.33
33.0	4750.84	-57.0	2839.69
30.0	4911.32	-60.0	2524.85
27.0	5058.45	-63.0	2190.63
24.0	5189.24	-66.0	1846.70
21.0	5307.55	-69.0	1469.06
18.0	5409.73	-72.0	1080.43
15.0	5491.69	-75.0	722.44
12.0	5556.38	-78.0	419.14
9.0	5610.20	-81.0	196.50
6.0	5651.25	-84.0	60.94
3.0	5674.89	-87.0	18.25
0.0	5683.12	-90.0	5.23

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.49	0.0	5683.12
87.0	37.10	-3.0	5670.30
84.0	132.72	-6.0	5646.43
81.0	345.58	-9.0	5612.32
78.0	558.44	-12.0	5561.74
75.0	771.30	-15.0	5495.37
72.0	1132.08	-18.0	5417.29
69.0	1492.86	-21.0	5311.40
66.0	1853.65	-24.0	5192.70
63.0	2190.58	-27.0	5060.20
60.0	2515.59	-30.0	4915.49
57.0	2840.59	-33.0	4759.62
54.0	3147.97	-36.0	4575.14
51.0	3420.09	-39.0	4378.24
48.0	3692.20	-42.0	4168.93
45.0	3935.80	-45.0	3935.80
42.0	4168.93	-48.0	3692.20
39.0	4378.24	-51.0	3420.09
36.0	4575.14	-54.0	3147.97
33.0	4759.62	-57.0	2840.59
30.0	4915.49	-60.0	2515.59
27.0	5060.20	-63.0	2190.58
24.0	5192.70	-66.0	1853.65
21.0	5311.40	-69.0	1492.86
18.0	5417.29	-72.0	1132.08
15.0	5495.37	-75.0	771.30
12.0	5561.74	-78.0	558.44
9.0	5612.32	-81.0	345.58
6.0	5646.43	-84.0	132.72
3.0	5670.30	-87.0	37.10
0.0	5683.12	-90.0	0.49

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



**Test Report No. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W Setting - 4000K Setting

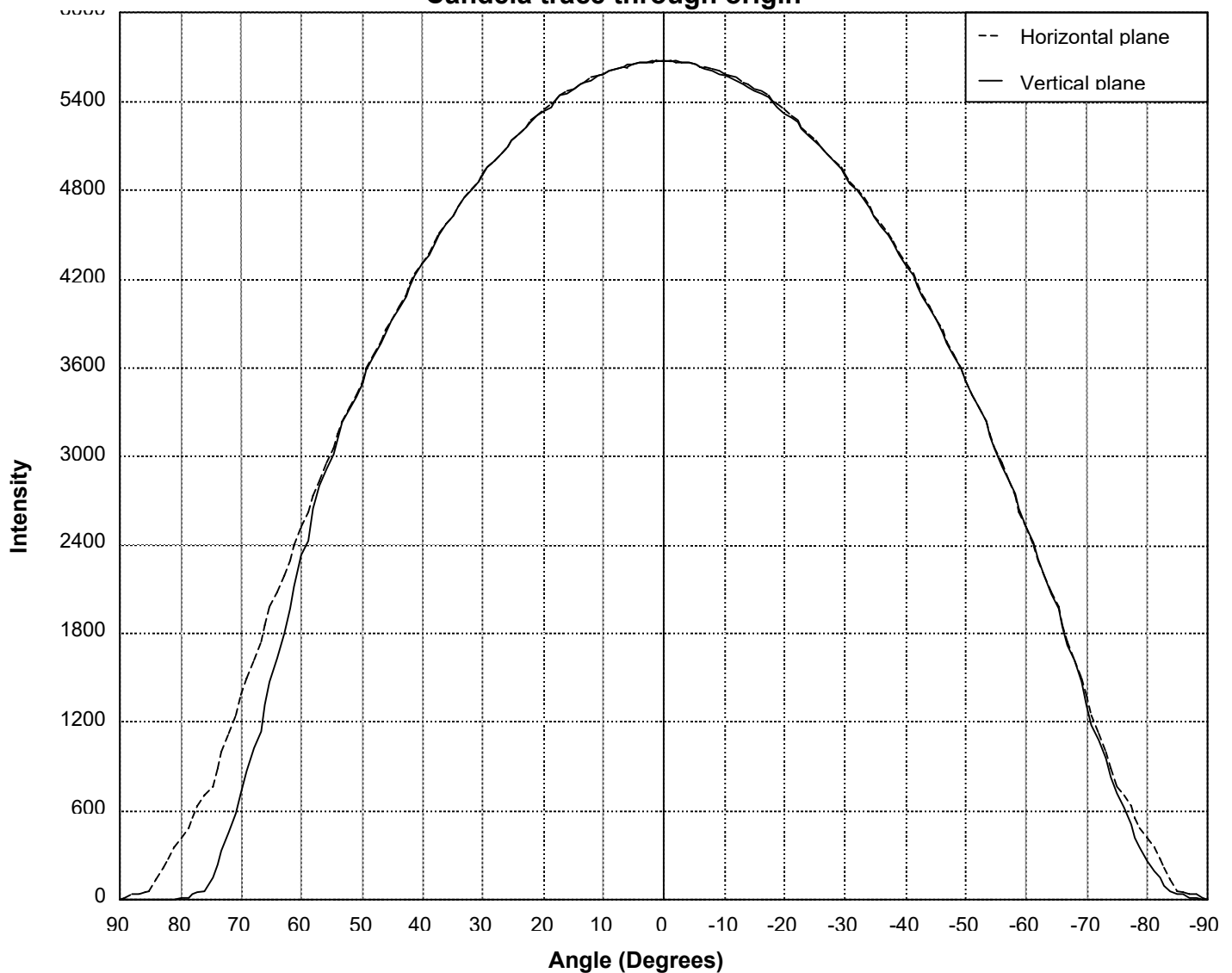
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs

336 LEDs, 168 cool white and 168 warm white LEDs

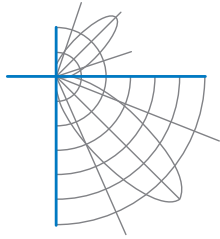
Internal LED driver

120.0Vac, 60.00Hz, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

**Candela trace through origin**



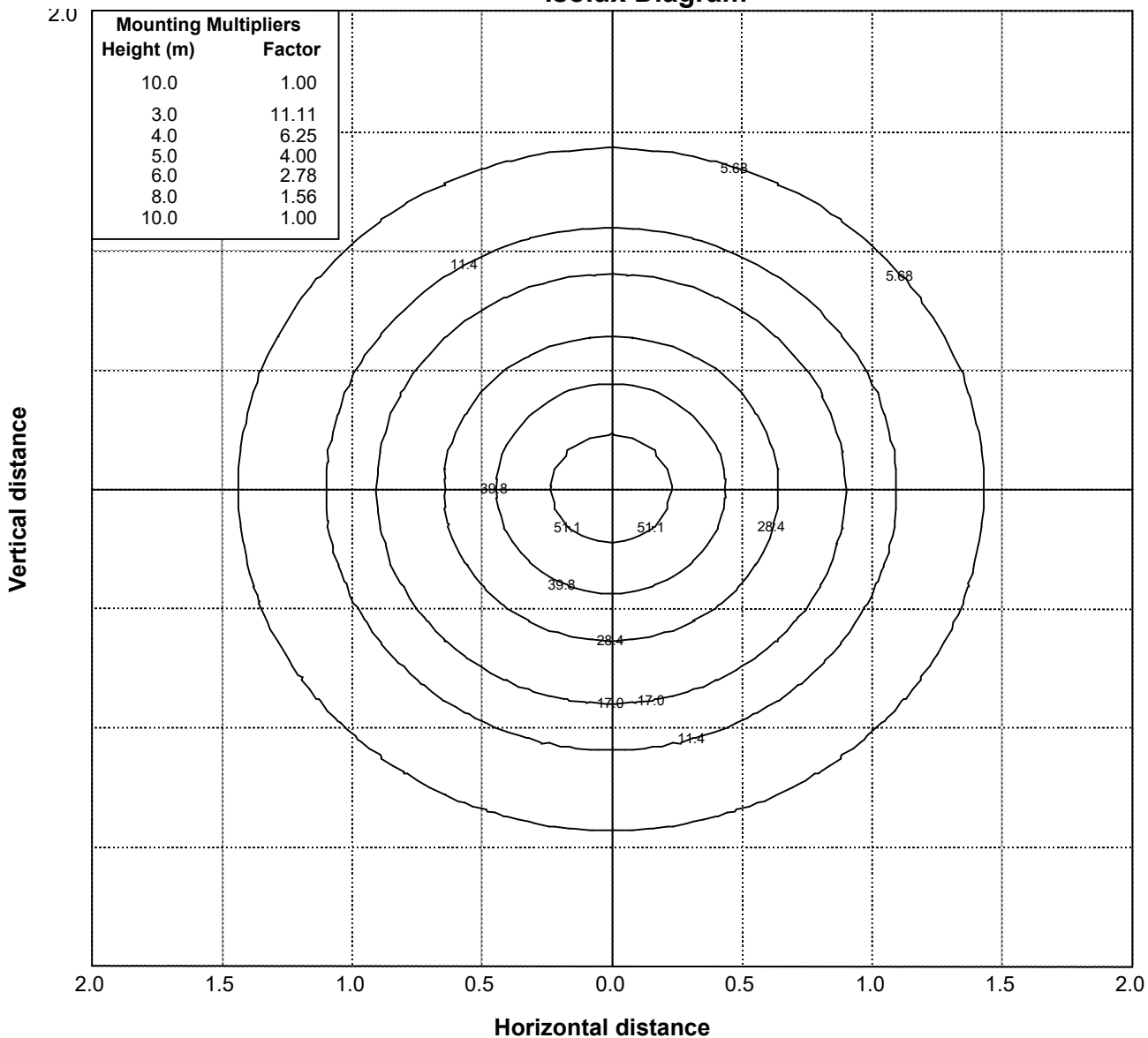
Note: The intensity units are expressed as candelas.  
The left and right sides of photometric data have been averaged.  
Both the vertical and the horizontal trace pass through the nadir.



**Test Report No. LLIA002372-009**

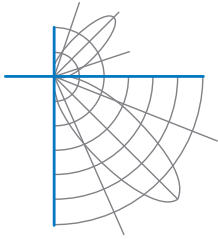
Catalog Number: FL-100PCS-SFYK - 100W Setting - 4000K Setting  
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs  
336 LEDs, 168 cool white and 168 warm white LEDs  
Internal LED driver  
120.0Vac, 60.00Hz, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

**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.





**Test Report No. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W Setting - 4000K Setting

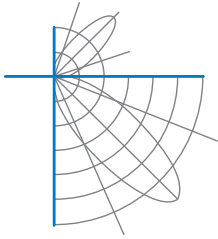
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs

336 LEDs, 168 cool white and 168 warm white LEDs

Internal LED driver

120.0Vac, 60.00Hz, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)





**Test Report No. LLIA002372-009**

Catalog Number: FL-100PCS-SFYK - 100W 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, 0.8064A, 96.22W, 0.994PF, 5.4%THD(i)

**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,  $\beta$ ) 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.