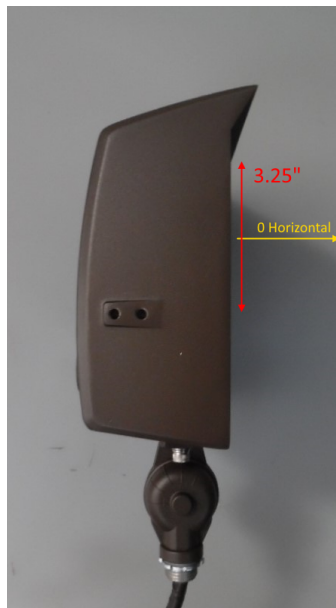




Report of Test

LLIA002372-006

Catalog Number: FL-60PCS-KNTR - 60W Setting - 4000K Setting
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs
192 LEDs, 96 cool white and 96 warm white LEDs
Internal LED driver
120.0Vac, 60.00Hz, 0.4924A, 58.33W, 0.988PF, 10.7%THD(i)



Performance Summary				
Total Light Output	9206	lm	Illuminance at 10m	33.2 lux
Luminaire Power	58.3	W	Beam Distance	115.2 Meters (to 0.25 lux)
Luminous Efficacy	157.9	lm/W	Maximum Intensity	3317.9 cd
Beam Spread (50%)	114.0° V x 113.7° H			
Field Spread (10%)	148.2° V x 155.0° H			
NEMA Type	7H x 7V			

PREPARED FOR : Topaz Lighting, A Southwire Company, 925 Waverly Ave, Holtsville, NY



Test Report No. LLIA002372-006

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Floodlight Summary:

Report data based on absolute values as measured.

Maximum Luminous Intensity (Luminaire orientation as tested.)		3317.9 cd		
		1.0° vertical		
		0.0° horizontal		
Beam Spread	At 10% of max intensity	148.2° V	x	155.0° H
	At 50% of max intensity	114.0° V	x	113.7° H
	At 90% of max intensity	51.6° V	x	51.9° H
Beam Flux	Total	9206 lm		
	To 10% of max intensity	9052 lm		
	To 50% of max intensity	7258 lm		
	To 90% of max intensity	1958 lm		
	Total Light Output	9206.4 lm		

Signed:

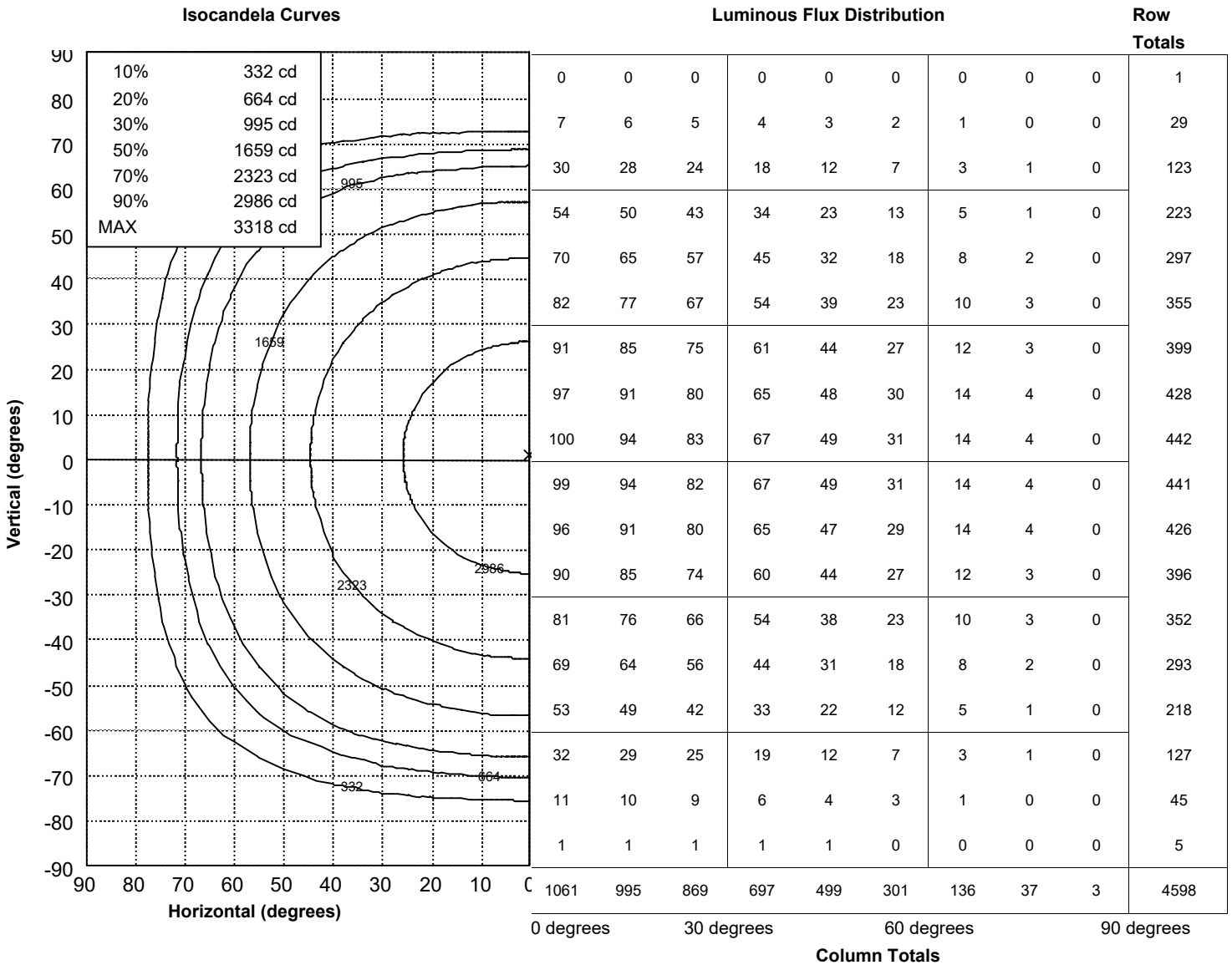
Authorized Signatory

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

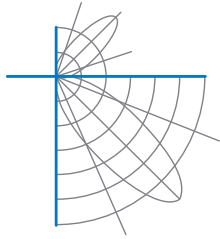


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90	-60	-30	0	30	60	90	120	150	
-90	2.8 0.0	7.2 0.1	9.7 0.1	15.1 0.3	20.4 0.6	23.7 0.7	26.6 0.9	26.1 1.0	27.3 1.1	5
	8.1 0.0	21.9 0.2	82.0 1.1	143.9 2.5	181.2 4.2	247.1 6.4	298.1 8.6	339.7 10.4	364.4 11.4	45
	13.1 0.0	82.3 0.8	229.3 3.0	365.0 6.6	555.1 12.2	742.1 18.7	892.1 24.7	993.3 29.2	1050.8 31.7	127
-60	17.8 0.1	170.5 1.4	379.9 5.2	706.0 12.4	1034.9 22.3	1324.8 32.9	1541.2 42.2	1678.8 49.0	1752.5 52.7	218
	22.0 0.2	249.5 2.1	591.0 7.8	1026.4 18.1	1462.3 31.3	1786.5 44.4	2030.6 55.8	2194.2 64.3	2271.5 68.7	293
	25.5 0.2	318.1 2.7	781.7 10.3	1310.1 23.0	1785.7 38.4	2151.4 53.5	2414.7 66.4	2592.9 76.0	2675.9 80.9	352
-30	28.2 0.3	371.8 3.3	932.9 12.2	1536.7 26.9	2038.9 43.8	2423.4 60.3	2702.1 74.4	2890.5 84.7	2976.9 90.1	396
	30.2 0.3	409.1 3.7	1037.3 13.6	1691.3 29.5	2203.9 47.4	2603.8 64.8	2894.1 79.7	3089.7 90.6	3179.7 96.2	426
	31.3 0.3	430.0 3.9	1095.8 14.4	1775.8 30.9	2292.7 49.2	2699.6 67.2	2994.9 82.4	3192.6 93.6	3283.1 99.3	441
0	31.4 0.3	430.8 3.9	1099.1 14.4	1778.8 30.9	2297.9 49.3	2706.0 67.3	3002.1 82.6	3202.1 93.8	3294.0 99.6	442
	30.6 0.3	411.9 3.7	1046.1 13.7	1699.7 29.6	2217.0 47.6	2617.4 65.1	2907.9 80.0	3105.4 91.0	3196.0 96.7	428
	28.7 0.3	375.9 3.3	942.8 12.4	1548.6 27.1	2055.1 44.2	2442.3 60.8	2721.9 74.9	2912.4 85.4	2999.8 90.8	399
30	26.0 0.2	322.9 2.8	793.6 10.4	1326.0 23.3	1805.2 38.8	2175.2 54.1	2439.7 67.1	2619.7 76.8	2703.2 81.7	355
	22.5 0.2	254.3 2.1	603.5 8.0	1045.6 18.4	1483.0 31.7	1813.4 45.1	2057.2 56.6	2222.2 65.1	2299.4 69.5	297
	18.3 0.1	174.1 1.5	392.3 5.4	723.5 12.8	1061.8 22.8	1354.2 33.6	1572.7 43.0	1709.7 49.9	1782.8 53.7	223
60	13.5 0.0	84.0 0.8	236.9 3.0	354.4 6.6	556.7 12.0	719.8 18.1	851.4 23.8	940.9 27.9	1000.9 30.4	123
	8.3 0.0	22.0 0.2	81.2 1.1	124.9 2.1	125.2 3.1	158.0 4.3	165.0 5.4	173.8 6.1	184.3 6.6	29
	2.9 0.0	7.1 0.1	6.7 0.1	8.8 0.2	8.6 0.3	3.9 0.1	2.5 0.1	1.7 0.1	1.3 0.1	1
90	3	37	136	301	499	697	869	995	1061	4598

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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192 LEDs, 96 cool white and 96 warm white LEDs
Internal LED driver
120.0Vac, 60.00Hz, 0.4924A, 58.33W, 0.988PF, 10.7%THD(i)

Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	27.3 1.1	26.1 1.0	26.6 0.9	23.7 0.7	20.4 0.6	15.1 0.3	9.7 0.1	7.2 0.1	2.8 0.0	5
	364.4 11.4	339.7 10.4	298.1 8.6	247.1 6.4	181.2 4.2	143.9 2.5	82.0 1.1	21.9 0.2	8.1 0.0	45
	1050.8 31.7	993.3 29.2	892.1 24.7	742.1 18.7	555.1 12.2	365.0 6.6	229.3 3.0	82.3 0.8	13.1 0.0	127
-60	1752.5 52.7	1678.8 49.0	1541.2 42.2	1324.8 32.9	1034.9 22.3	706.0 12.4	379.9 5.2	170.5 1.4	17.8 0.1	218
	2271.5 68.7	2194.2 64.3	2030.6 55.8	1786.5 44.4	1462.3 31.3	1026.4 18.1	591.0 7.8	249.5 2.1	22.0 0.2	293
	2675.9 80.9	2592.9 76.0	2414.7 66.4	2151.4 53.5	1785.7 38.4	1310.1 23.0	781.7 10.3	318.1 2.7	25.5 0.2	352
-30	2976.9 90.1	2890.5 84.7	2702.1 74.4	2423.4 60.3	2038.9 43.8	1536.7 26.9	932.9 12.2	371.8 3.3	28.2 0.3	396
	3179.7 96.2	3089.7 90.6	2894.1 79.7	2603.8 64.8	2203.9 47.4	1691.3 29.5	1037.3 13.6	409.1 3.7	30.2 0.3	426
	3283.1 99.3	3192.6 93.6	2994.9 82.4	2699.6 67.2	2292.7 49.2	1775.8 30.9	1095.8 14.4	430.0 3.9	31.3 0.3	441
0	3294.0 99.6	3202.1 93.8	3002.1 82.6	2706.0 67.3	2297.9 49.3	1778.8 30.9	1099.1 14.4	430.8 3.9	31.4 0.3	442
	3196.0 96.7	3105.4 91.0	2907.9 80.0	2617.4 65.1	2217.0 47.6	1699.7 29.6	1046.1 13.7	411.9 3.7	30.6 0.3	428
	2999.8 90.8	2912.4 85.4	2721.9 74.9	2442.3 60.8	2055.1 44.2	1548.6 27.1	942.8 12.4	375.9 3.3	28.7 0.3	399
30	2703.2 81.7	2619.7 76.8	2439.7 67.1	2175.2 54.1	1805.2 38.8	1326.0 23.3	793.6 10.4	322.9 2.8	26.0 0.2	355
	2299.4 69.5	2222.2 65.1	2057.2 56.6	1813.4 45.1	1483.0 31.7	1045.6 18.4	603.5 8.0	254.3 2.1	22.5 0.2	297
	1782.8 53.7	1709.7 49.9	1572.7 43.0	1354.2 33.6	1061.8 22.8	723.5 12.8	392.3 5.4	174.1 1.5	18.3 0.1	223
60	1000.9 30.4	940.9 27.9	851.4 23.8	719.8 18.1	556.7 12.0	354.4 6.6	236.9 3.0	84.0 0.8	13.5 0.0	123
	184.3 6.6	173.8 6.1	165.0 5.4	158.0 4.3	125.2 3.1	124.9 2.1	81.2 1.1	22.0 0.2	8.3 0.0	29
	1.3 0.1	1.7 0.1	2.5 0.1	3.9 0.1	8.6 0.3	8.8 0.2	6.7 0.1	7.1 0.1	2.9 0.0	1
90	1061	995	869	697	499	301	136	37	3	4598

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.
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120.0Vac, 60.00Hz, 0.4924A, 58.33W, 0.988PF, 10.7%THD(i)

Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.07	0.0	3316.57
87.0	0.10	-3.0	3309.00
84.0	0.08	-6.0	3293.48
81.0	4.62	-9.0	3270.61
78.0	30.35	-12.0	3236.96
75.0	180.69	-15.0	3196.21
72.0	373.59	-18.0	3148.20
69.0	611.83	-21.0	3089.32
66.0	914.00	-24.0	3019.16
63.0	1189.60	-27.0	2942.55
60.0	1484.40	-30.0	2856.72
57.0	1676.28	-33.0	2760.75
54.0	1851.77	-36.0	2656.27
51.0	2018.31	-39.0	2544.11
48.0	2170.86	-42.0	2421.20
45.0	2315.95	-45.0	2285.77
42.0	2450.31	-48.0	2142.45
39.0	2570.38	-51.0	1989.21
36.0	2683.59	-54.0	1820.46
33.0	2786.60	-57.0	1645.00
30.0	2881.36	-60.0	1438.11
27.0	2967.58	-63.0	1179.46
24.0	3043.43	-66.0	980.44
21.0	3110.59	-69.0	757.46
18.0	3166.13	-72.0	557.84
15.0	3213.61	-75.0	360.75
12.0	3253.46	-78.0	207.41
9.0	3285.85	-81.0	88.37
6.0	3305.22	-84.0	25.91
3.0	3315.02	-87.0	8.16
0.0	3316.57	-90.0	2.06

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.30	0.0	3316.57
87.0	18.91	-3.0	3309.56
84.0	71.38	-6.0	3295.22
81.0	191.10	-9.0	3276.83
78.0	310.82	-12.0	3248.48
75.0	430.54	-15.0	3210.26
72.0	631.69	-18.0	3161.24
69.0	832.84	-21.0	3101.83
66.0	1034.00	-24.0	3033.34
63.0	1238.07	-27.0	2957.04
60.0	1443.60	-30.0	2873.61
57.0	1649.13	-33.0	2785.45
54.0	1839.58	-36.0	2677.64
51.0	1999.87	-39.0	2563.23
48.0	2160.15	-42.0	2442.22
45.0	2304.46	-45.0	2304.46
42.0	2442.22	-48.0	2160.15
39.0	2563.23	-51.0	1999.87
36.0	2677.64	-54.0	1839.58
33.0	2785.45	-57.0	1649.13
30.0	2873.61	-60.0	1443.60
27.0	2957.04	-63.0	1238.07
24.0	3033.34	-66.0	1034.00
21.0	3101.83	-69.0	832.84
18.0	3161.24	-72.0	631.69
15.0	3210.26	-75.0	430.54
12.0	3248.48	-78.0	310.82
9.0	3276.83	-81.0	191.10
6.0	3295.22	-84.0	71.38
3.0	3309.56	-87.0	18.91
0.0	3316.57	-90.0	0.30

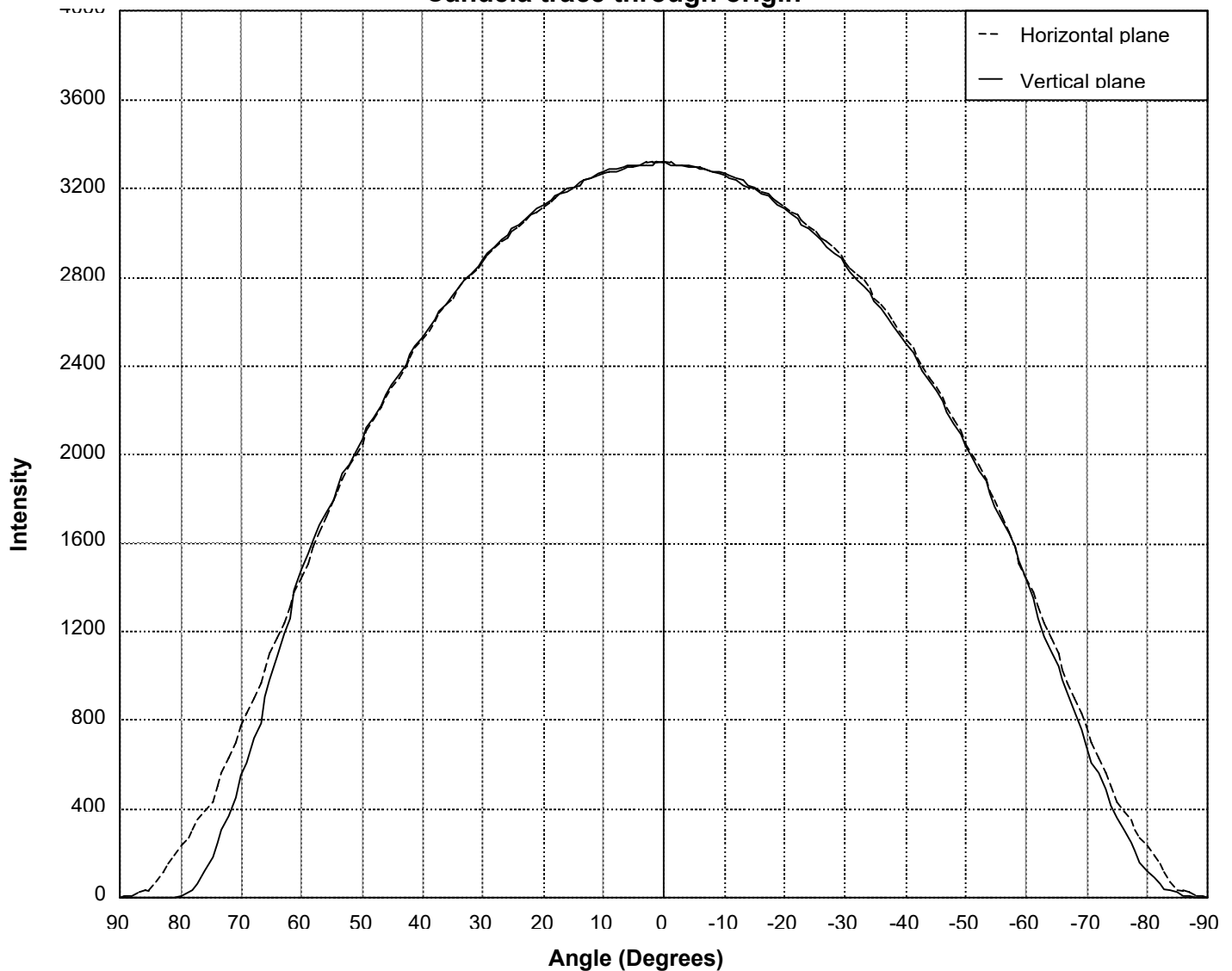
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



Test Report No. LLIA002372-006

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Candela trace through origin



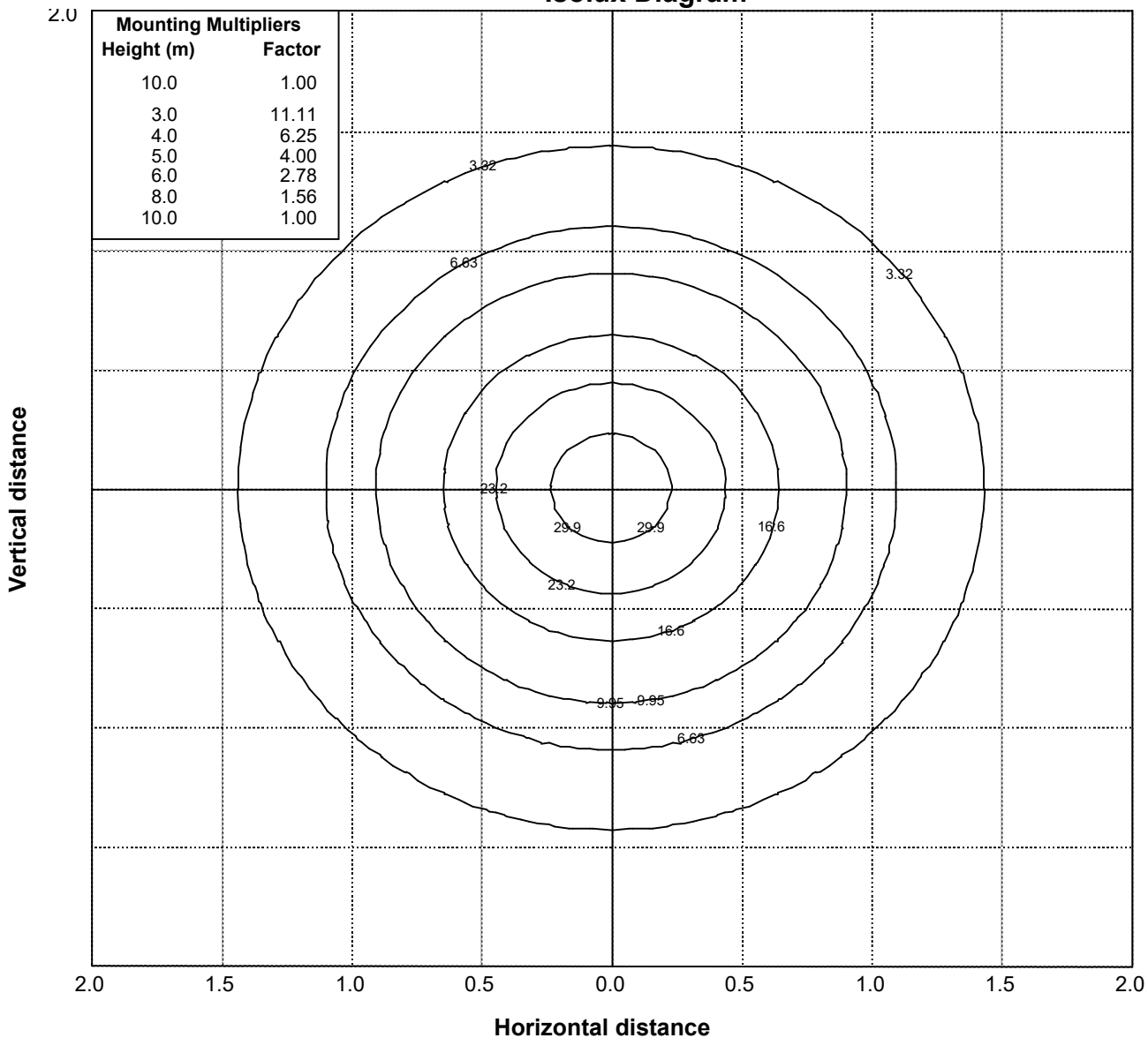
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



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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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