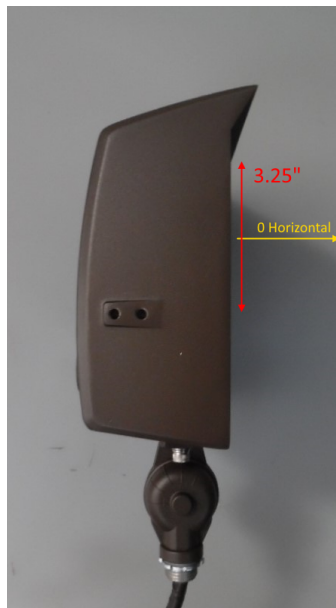




Report of Test

LLIA002372-004

Catalog Number: FL-60PCS-KNTR - 40W 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, 0.3278A, 38.84W, 0.987PF, 5.2%THD(i)



Performance Summary				
Total Light Output	6465	lm	Illuminance at 10m	23.3 lux
Luminaire Power	38.8	W	Beam Distance	96.6 Meters (to 0.25 lux)
Luminous Efficacy	166.6	lm/W	Maximum Intensity	2331.0 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. LLIA002372-004

Catalog Number: FL-60PCS-KNTR - 40W Setting - 4000K Setting
Knuckle or trunion mounted, formed aluminum housing, white plastic reflector, clear glass enclosure in front of LEDs
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Floodlight Summary:

Report data based on absolute values as measured.

Maximum Luminous Intensity (Luminaire orientation as tested.) 2331.0 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 51.7° H

Beam Flux Total 6465 lm
To 10% of max intensity 6356 lm
To 50% of max intensity 5096 lm
To 90% of max intensity 1375 lm

Total Light Output 6465.2 lm

Signed:

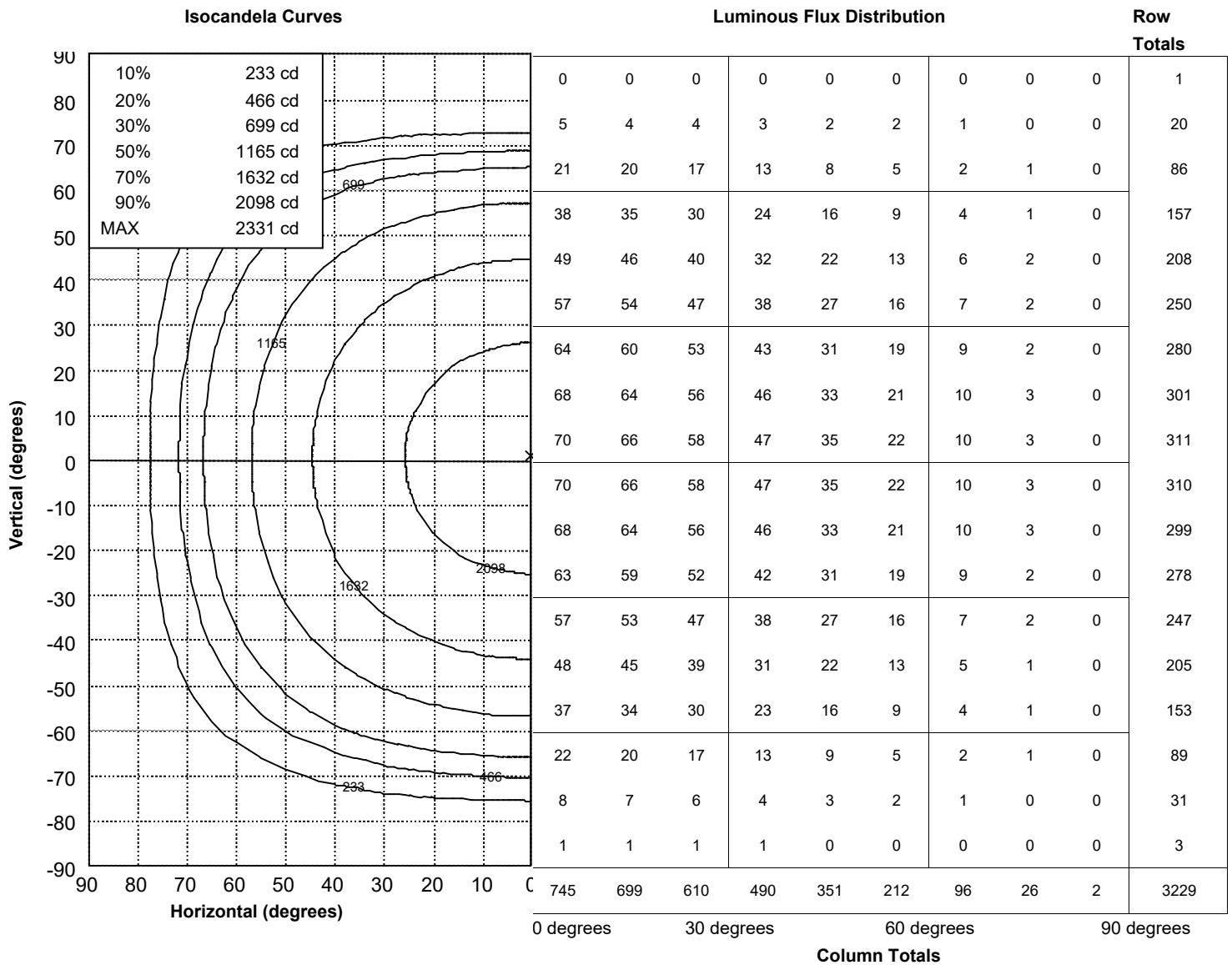
Authorized Signatory

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

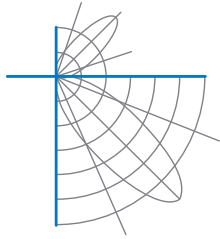


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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals										
	-90	-60	-30	0	30	60	90	120	150											
-90	2.0 0.0	5.1 0.0	6.8 0.1	10.7 0.2	14.4 0.4	16.6 0.5	18.7 0.6	18.3 0.7	19.1 0.8	3										
	5.7 0.0	15.5 0.2	57.7 0.8	101.1 1.8	127.2 2.9	173.2 4.5	208.8 6.0	237.9 7.3	255.0 8.0	31										
	9.3 0.0	57.9 0.5	161.1 2.1	256.4 4.7	389.3 8.5	520.5 13.1	625.6 17.3	696.5 20.5	736.7 22.3	89										
-60	12.6 0.1	119.9 1.0	266.9 3.7	495.8 8.7	726.1 15.6	929.7 23.1	1081.0 29.6	1177.8 34.4	1229.6 37.0	153										
	15.5 0.1	175.3 1.5	415.2 5.5	720.8 12.7	1026.4 21.9	1253.6 31.2	1424.9 39.2	1540.4 45.1	1594.3 48.2	205										
	18.0 0.2	223.6 1.9	548.9 7.2	919.8 16.2	1253.5 27.0	1509.5 37.5	1694.8 46.6	1820.1 53.3	1878.8 56.8	247										
-30	20.0 0.2	261.4 2.3	655.6 8.6	1078.8 18.9	1431.7 30.8	1701.4 42.3	1896.5 52.2	2029.7 59.5	2089.1 63.2	278										
	21.4 0.2	287.7 2.6	728.4 9.6	1187.3 20.7	1547.5 33.3	1827.8 45.5	2032.9 55.9	2169.0 63.6	2232.8 67.6	299										
	22.2 0.2	302.4 2.7	770.1 10.1	1247.7 21.7	1610.1 34.6	1895.3 47.2	2102.7 57.9	2242.1 65.7	2304.2 69.7	310										
0	22.3 0.2	302.9 2.7	772.6 10.1	1249.8 21.7	1614.0 34.7	1899.7 47.3	2108.0 58.0	2248.3 65.9	2314.1 70.0	311										
	21.7 0.2	289.6 2.6	735.5 9.7	1193.7 20.8	1557.1 33.5	1837.9 45.7	2041.9 56.2	2180.7 63.9	2243.6 67.9	301										
	20.3 0.2	264.3 2.3	662.9 8.7	1088.1 19.0	1443.1 31.0	1714.8 42.7	1911.4 52.6	2046.0 60.0	2107.0 63.7	280										
30	18.4 0.2	227.2 2.0	558.0 7.3	932.2 16.4	1267.4 27.3	1527.6 38.0	1713.2 47.1	1839.3 53.9	1898.7 57.4	250										
	15.9 0.1	179.0 1.5	424.6 5.6	735.0 12.9	1041.3 22.3	1273.7 31.7	1445.2 39.7	1561.0 45.7	1615.0 48.8	208										
	13.0 0.1	122.6 1.0	276.2 3.8	508.7 9.0	746.0 16.0	951.8 23.6	1105.0 30.2	1201.2 35.1	1253.1 37.7	157										
60	9.6 0.0	59.3 0.5	166.8 2.1	249.6 4.6	391.7 8.5	506.3 12.7	598.5 16.7	661.6 19.6	703.3 21.3	86										
	5.9 0.0	15.6 0.2	57.3 0.8	88.2 1.5	88.8 2.2	111.8 3.0	116.7 3.8	123.2 4.3	130.6 4.7	20										
	2.1 0.0	5.0 0.0	4.8 0.1	6.3 0.1	6.2 0.2	2.8 0.1	1.8 0.1	1.2 0.1	1.0 0.0	1										
90	<table border="0" style="width:100%; text-align:center;"> <tr> <td>2</td><td>26</td><td>96</td><td>212</td><td>351</td><td>490</td><td>610</td><td>699</td><td>745</td><td>3229</td> </tr> </table>									2	26	96	212	351	490	610	699	745	3229	
2	26	96	212	351	490	610	699	745	3229											

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. LLIA002372-004

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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, 0.3278A, 38.84W, 0.987PF, 5.2%THD(i)

Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	19.1 0.8	18.3 0.7	18.7 0.6	16.6 0.5	14.4 0.4	10.7 0.2	6.8 0.1	5.1 0.0	2.0 0.0	3
	255.0 8.0	237.9 7.3	208.8 6.0	173.2 4.5	127.2 2.9	101.1 1.8	57.7 0.8	15.5 0.2	5.7 0.0	31
	736.7 22.3	696.5 20.5	625.6 17.3	520.5 13.1	389.3 8.5	256.4 4.7	161.1 2.1	57.9 0.5	9.3 0.0	89
-60	1229.6 37.0	1177.8 34.4	1081.0 29.6	929.7 23.1	726.1 15.6	495.8 8.7	266.9 3.7	119.9 1.0	12.6 0.1	153
	1594.3 48.2	1540.4 45.1	1424.9 39.2	1253.6 31.2	1026.4 21.9	720.8 12.7	415.2 5.5	175.3 1.5	15.5 0.1	205
	1878.8 56.8	1820.1 53.3	1694.8 46.6	1509.5 37.5	1253.5 27.0	919.8 16.2	548.9 7.2	223.6 1.9	18.0 0.2	247
-30	2089.1 63.2	2029.7 59.5	1896.5 52.2	1701.4 42.3	1431.7 30.8	1078.8 18.9	655.6 8.6	261.4 2.3	20.0 0.2	278
	2232.8 67.6	2169.0 63.6	2032.9 55.9	1827.8 45.5	1547.5 33.3	1187.3 20.7	728.4 9.6	287.7 2.6	21.4 0.2	299
	2304.2 69.7	2242.1 65.7	2102.7 57.9	1895.3 47.2	1610.1 34.6	1247.7 21.7	770.1 10.1	302.4 2.7	22.2 0.2	310
0	2314.1 70.0	2248.3 65.9	2108.0 58.0	1899.7 47.3	1614.0 34.7	1249.8 21.7	772.6 10.1	302.9 2.7	22.3 0.2	311
	2243.6 67.9	2180.7 63.9	2041.9 56.2	1837.9 45.7	1557.1 33.5	1193.7 20.8	735.5 9.7	289.6 2.6	21.7 0.2	301
	2107.0 63.7	2046.0 60.0	1911.4 52.6	1714.8 42.7	1443.1 31.0	1088.1 19.0	662.9 8.7	264.3 2.3	20.3 0.2	280
30	1898.7 57.4	1839.3 53.9	1713.2 47.1	1527.6 38.0	1267.4 27.3	932.2 16.4	558.0 7.3	227.2 2.0	18.4 0.2	250
	1615.0 48.8	1561.0 45.7	1445.2 39.7	1273.7 31.7	1041.3 22.3	735.0 12.9	424.6 5.6	179.0 1.5	15.9 0.1	208
	1253.1 37.7	1201.2 35.1	1105.0 30.2	951.8 23.6	746.0 16.0	508.7 9.0	276.2 3.8	122.6 1.0	13.0 0.1	157
60	703.3 21.3	661.6 19.6	598.5 16.7	506.3 12.7	391.7 8.5	249.6 4.6	166.8 2.1	59.3 0.5	9.6 0.0	86
	130.6 4.7	123.2 4.3	116.7 3.8	111.8 3.0	88.8 2.2	88.2 1.5	57.3 0.8	15.6 0.2	5.9 0.0	20
	1.0 0.0	1.2 0.1	1.8 0.1	2.8 0.1	6.2 0.2	6.3 0.1	4.8 0.1	5.0 0.0	2.1 0.0	1
90	745	699	610	490	351	212	96	26	2	3229

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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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.17	0.0	2330.83
87.0	0.00	-3.0	2323.29
84.0	0.07	-6.0	2313.30
81.0	3.45	-9.0	2297.53
78.0	21.55	-12.0	2275.32
75.0	128.82	-15.0	2245.44
72.0	264.96	-18.0	2211.40
69.0	431.60	-21.0	2170.26
66.0	642.67	-24.0	2119.36
63.0	835.98	-27.0	2065.33
60.0	1043.41	-30.0	2005.31
57.0	1177.81	-33.0	1937.78
54.0	1301.81	-36.0	1865.38
51.0	1419.74	-39.0	1786.55
48.0	1526.06	-42.0	1700.51
45.0	1627.72	-45.0	1605.68
42.0	1721.44	-48.0	1503.33
39.0	1805.23	-51.0	1395.77
36.0	1886.23	-54.0	1277.66
33.0	1957.83	-57.0	1155.39
30.0	2025.35	-60.0	1008.97
27.0	2085.52	-63.0	826.90
24.0	2139.31	-66.0	687.78
21.0	2184.54	-69.0	529.99
18.0	2222.65	-72.0	390.76
15.0	2256.33	-75.0	252.52
12.0	2285.45	-78.0	144.34
9.0	2309.15	-81.0	61.29
6.0	2323.53	-84.0	18.09
3.0	2329.76	-87.0	5.65
0.0	2330.83	-90.0	1.42

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.21	0.0	2330.83
87.0	13.39	-3.0	2324.53
84.0	50.33	-6.0	2313.88
81.0	134.48	-9.0	2300.49
78.0	218.62	-12.0	2279.85
75.0	302.76	-15.0	2254.09
72.0	444.06	-18.0	2219.39
69.0	585.36	-21.0	2177.67
66.0	726.66	-24.0	2129.52
63.0	870.06	-27.0	2075.24
60.0	1014.52	-30.0	2016.66
57.0	1158.98	-33.0	1955.83
54.0	1292.60	-36.0	1879.32
51.0	1404.56	-39.0	1798.95
48.0	1516.51	-42.0	1714.73
45.0	1617.93	-45.0	1617.93
42.0	1714.73	-48.0	1516.51
39.0	1798.95	-51.0	1404.56
36.0	1879.32	-54.0	1292.60
33.0	1955.83	-57.0	1158.98
30.0	2016.66	-60.0	1014.52
27.0	2075.24	-63.0	870.06
24.0	2129.52	-66.0	726.66
21.0	2177.67	-69.0	585.36
18.0	2219.39	-72.0	444.06
15.0	2254.09	-75.0	302.76
12.0	2279.85	-78.0	218.62
9.0	2300.49	-81.0	134.48
6.0	2313.88	-84.0	50.33
3.0	2324.53	-87.0	13.39
0.0	2330.83	-90.0	0.21

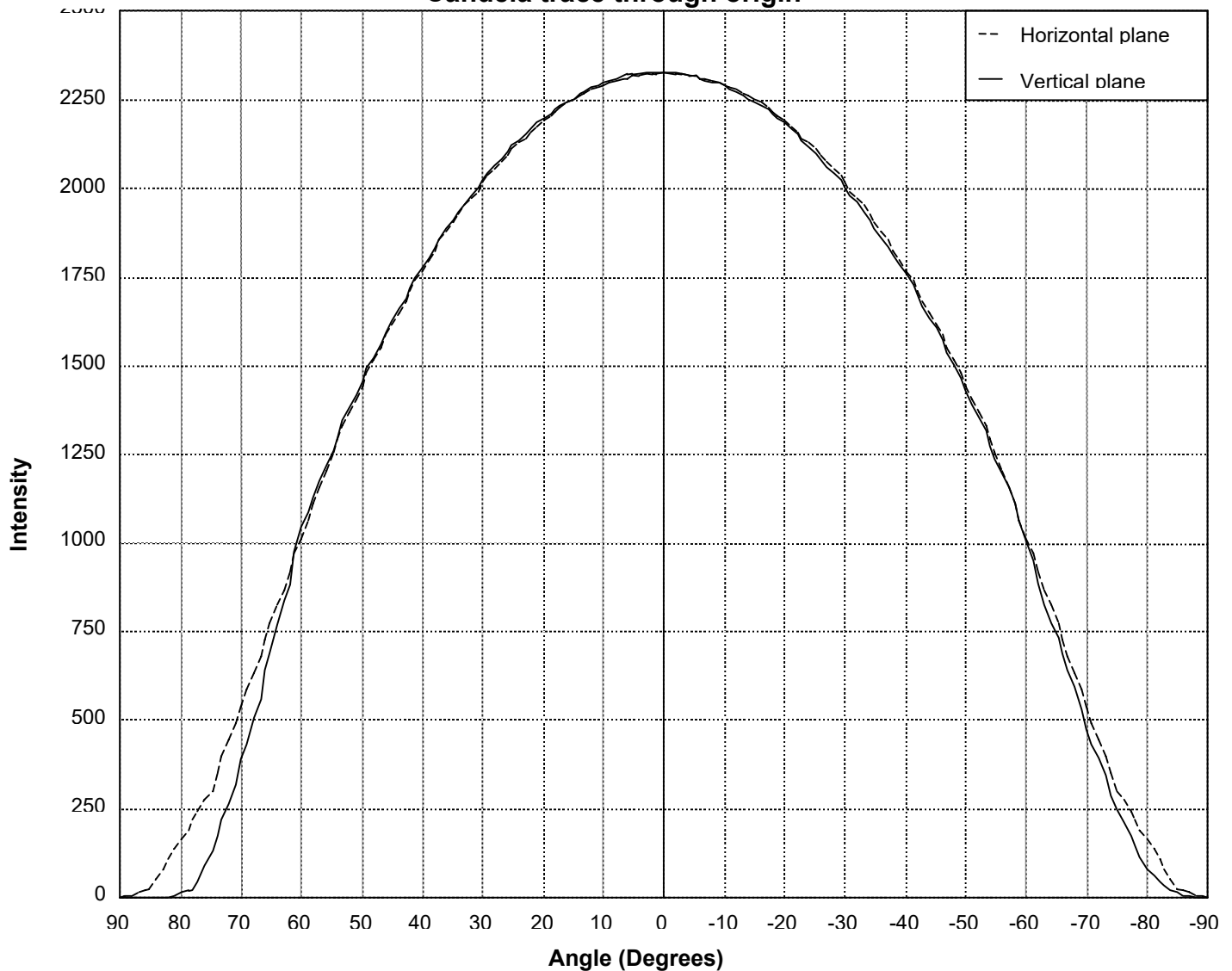
Note: Luminaire orientation as tested.
The left and right sides of photometric data have been averaged.



Test Report No. LLIA002372-004

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Candela trace through origin



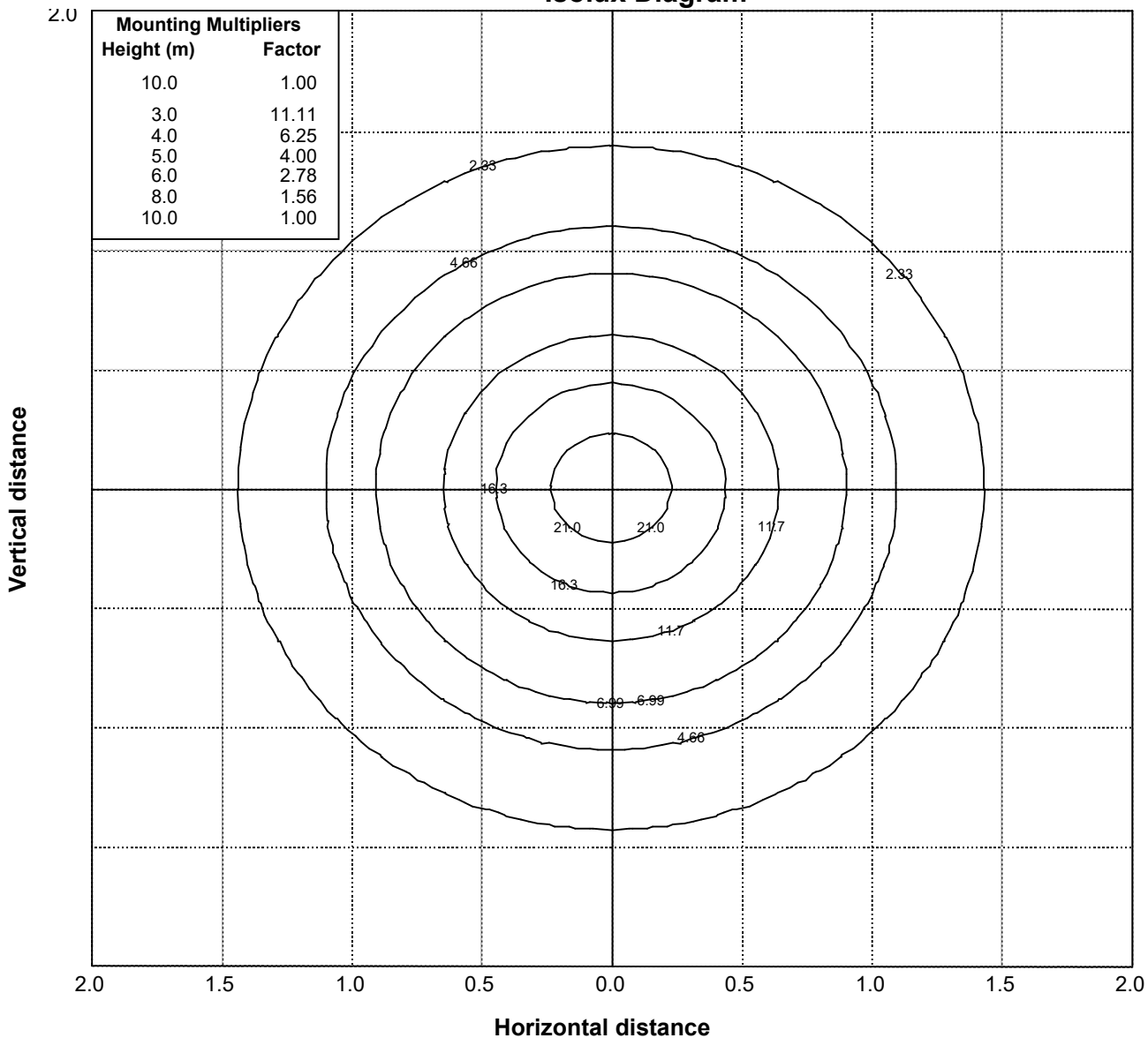
Note: The intensity units are expressed as candelas.
The left and right sides of photometric data have been averaged.
Both the vertical and the horizontal trace pass through the nadir.



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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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North America (issuing laboratory)

Australasia & S.E. Asia



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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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