

Report of Test

LLIA001282-002

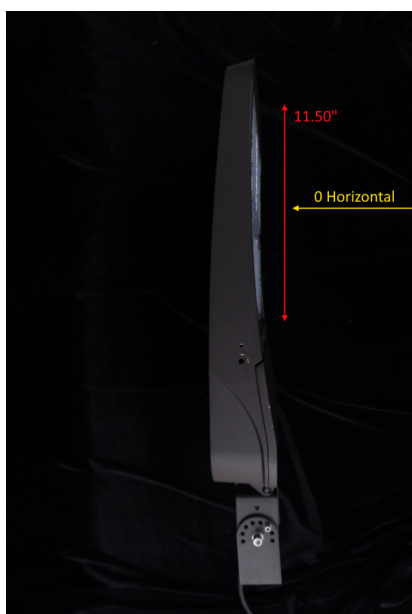
Catalog Number: F-FL/300/50K/TR-87

Trunnion mounted, cast aluminum housing, lightly frosted plastic enclosure with clear sections in front of LEDs.

336 White LEDs, two L2732(120.3x295.7x1.5)SL03 LED boards with 168 white LEDs each.

One Sosen SS-VA-320VP-56BH LED driver

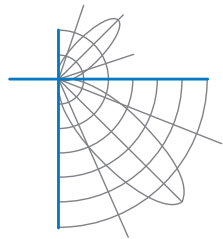
120.0Vac, 60.00Hz, 2.431A, 290.9W, 0.998PF, 2.4%THD(i)



Performance Summary

Total Light Output	41866 lm	Illuminance at 10m	105.2 lux
Luminaire Power	290.9 W	Beam Distance	205.1 Meters (to 0.25lux)
Luminous Efficacy	143.9 lm/W	Maximum Intensity	10516.98 cd
Beam Spread (50%)	138.9°Vx110.4°H		
Field Spread (10%)	148.0°Vx145.6°H		
NEMA Type	7H x 7V		

PREPARED FOR : Topaz Lighting Corp, 925 Waverly Avenue, Holtsville, NY 11742, USA



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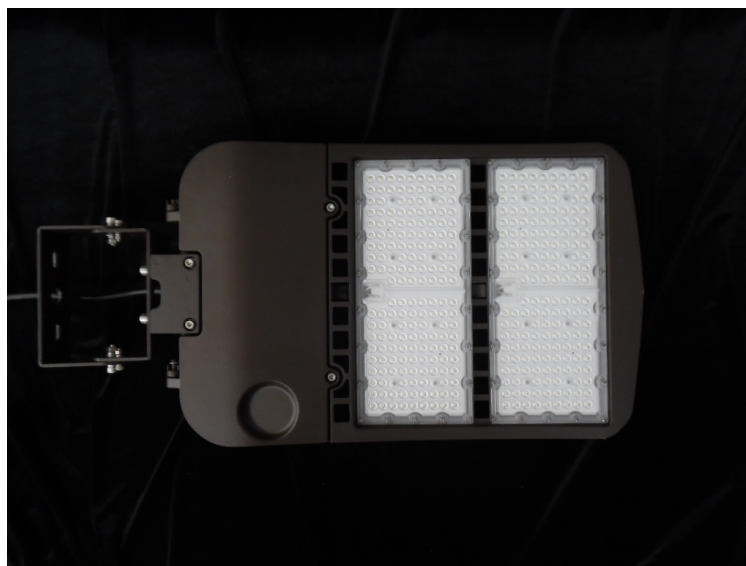
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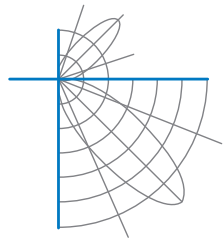
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Floodlight Summary:

Report data based on absolute values as measured.

Maximum Luminous Intensity	10516.98 cd
(Luminaire orientation as tested.)	57.5° vertical
	0.0° horizontal

Beam Spread	At 10% of max intensity	148.0° V	x	145.6° H
	At 50% of max intensity	138.9° V	x	110.4° H
	At 90% of max intensity	34.7° V	x	74.1° H

Beam Flux	Total	41866 lm
	To 10% of max intensity	41417 lm
	To 50% of max intensity	39389 lm
	To 90% of max intensity	21227 lm

Total Light Output 41866.1 lm

Signed:

Authorized Signatory

Date of test
Date of report

16-Jul-2020
17-Jul-2020



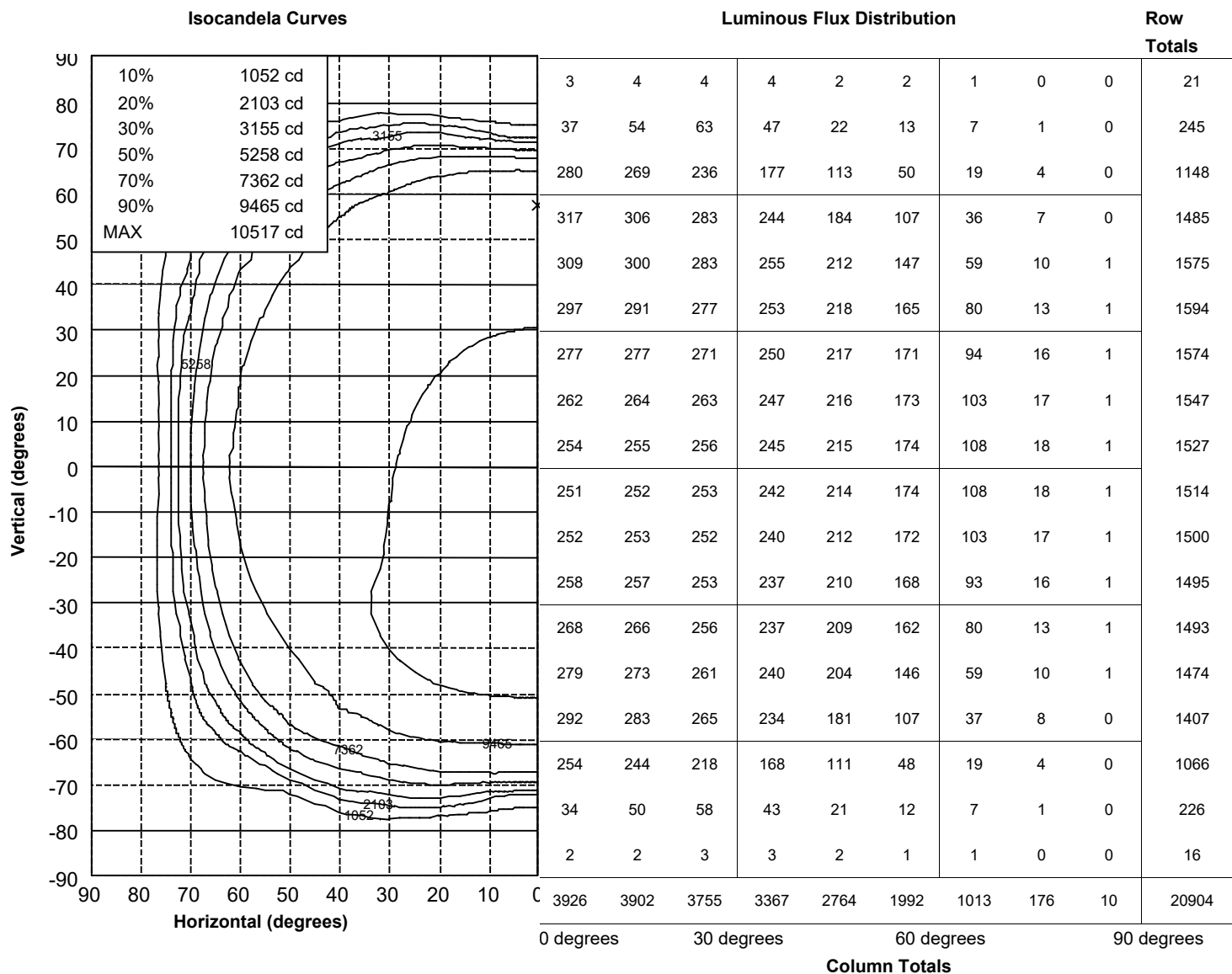
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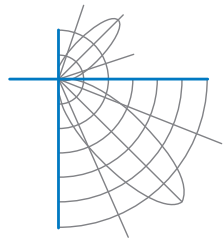
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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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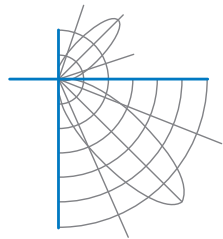
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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90		-60		-30				0	
-90	14.2 0.0	45.2 0.3	80.2 1.0	84.5 1.4	83.5 1.8	134.0 3.2	118.0 3.3	80.9 2.5	68.9 2.1	16
	36.3 0.1	141.1 1.4	519.4 6.6	677.6 11.5	902.3 21.0	1730.6 43.0	2158.8 58.2	1706.7 49.9	1101.1 34.2	226
	57.6 0.2	441.2 4.4	1429.6 18.6	2427.8 48.3	5124.3 110.9	6670.6 168.3	7940.0 217.6	8379.9 244.1	8519.3 253.9	1066
-60	77.5 0.4	838.3 7.6	2592.9 36.6	6200.0 107.2	8455.8 180.8	9487.3 233.7	9671.4 265.1	9676.7 283.1	9682.3 292.1	1407
	95.5 0.6	1092.6 10.2	4465.1 59.3	8686.5 145.6	9593.2 204.0	9642.6 240.1	9460.5 261.0	9286.9 273.4	9197.3 279.3	1474
	111.1 0.8	1216.2 13.0	6184.3 80.0	9303.5 162.0	9764.8 209.4	9528.0 237.4	9282.6 255.9	9040.7 265.7	8851.1 268.5	1493
-30	123.6 0.9	1257.3 15.7	7524.1 93.5	9684.2 168.3	9799.5 210.4	9520.9 237.3	9198.7 253.4	8756.2 257.5	8492.2 257.7	1495
	132.4 0.9	1230.3 17.4	8498.3 102.6	9914.0 171.6	9870.8 212.1	9628.9 239.5	9126.7 251.6	8584.8 252.6	8300.0 251.9	1500
	137.4 1.0	1205.4 18.3	9114.5 108.2	10066.0 173.8	9947.5 214.0	9748.1 242.4	9171.2 252.9	8562.6 252.2	8271.4 251.1	1514
0	137.7 1.0	1201.5 18.3	9113.4 108.2	10097.1 174.2	9998.0 215.1	9852.8 244.8	9306.4 256.3	8684.6 255.5	8361.8 253.7	1527
	133.1 0.9	1220.6 17.4	8504.9 102.8	10013.0 173.3	10047.9 216.1	9943.5 247.3	9532.4 262.6	8981.4 264.1	8634.1 262.1	1547
	124.7 0.9	1244.4 15.6	7535.9 93.8	9834.5 171.0	10116.5 217.4	10021.0 249.7	9839.2 270.9	9438.8 277.5	9143.9 277.5	1574
30	112.4 0.8	1203.7 12.9	6177.4 80.0	9443.2 164.6	10160.6 218.0	10139.5 252.6	10042.0 276.8	9918.3 291.4	9780.7 296.6	1594
	96.9 0.6	1081.1 10.0	4418.4 58.9	8737.5 146.9	9952.4 211.6	10253.7 255.2	10262.1 283.0	10211.0 300.3	10173.3 308.7	1575
	78.8 0.4	827.9 7.5	2518.4 36.0	6225.2 107.4	8572.6 183.9	9894.9 244.1	10304.1 282.5	10456.0 305.9	10494.8 316.9	1485
60	58.5 0.2	436.1 4.4	1393.0 18.6	2576.2 50.0	5229.5 113.1	7046.0 177.3	8664.0 235.6	9346.6 269.0	9524.5 279.7	1148
	36.8 0.1	141.4 1.5	524.2 6.9	783.4 13.0	941.0 22.2	1907.7 46.8	2386.8 63.5	1833.7 53.7	1187.2 37.0	245
	14.3 0.0	45.8 0.4	88.4 1.1	107.1 1.7	101.7 2.2	169.6 4.0	165.8 4.4	129.8 3.6	99.6 3.1	21
90	10	176	1013	1992	2764	3367	3755	3902	3926	20904
Lumen Totals										

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:

candelas
lumens



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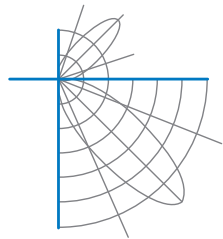
120.0Vac, 60.00Hz, 2.431A, 290.9W, 0.998PF, 2.4%THD(i)

Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90						
-90	68.9 2.1	80.9 2.5	118.0 3.3	134.0 3.2	83.5 1.8	84.5 1.4	80.2 1.0	45.2 0.3	14.2 0.0	16
	1101.1 34.2	1706.7 49.9	2158.8 58.2	1730.6 43.0	902.3 21.0	677.6 11.5	519.4 6.6	141.1 1.4	36.3 0.1	226
	8519.3 253.9	8379.9 244.1	7940.0 217.6	6670.6 168.3	5124.3 110.9	2427.8 48.3	1429.6 18.6	441.2 4.4	57.6 0.2	1066
-60	9682.3 292.1	9676.7 283.1	9671.4 265.1	9487.3 233.7	8455.8 180.8	6200.0 107.2	2592.9 36.6	838.3 7.6	77.5 0.4	1407
	9197.3 279.3	9286.9 273.4	9460.5 261.0	9642.6 240.1	9593.2 204.0	8686.5 145.6	4465.1 59.3	1092.6 10.2	95.5 0.6	1474
	8851.1 268.5	9040.7 265.7	9282.6 255.9	9528.0 237.4	9764.8 209.4	9303.5 162.0	6184.3 80.0	1216.2 13.0	111.1 0.8	1493
-30	8492.2 257.7	8756.2 257.5	9198.7 253.4	9520.9 237.3	9799.5 210.4	9684.2 168.3	7524.1 93.5	1257.3 15.7	123.6 0.9	1495
	8300.0 251.9	8584.8 252.6	9126.7 251.6	9628.9 239.5	9870.8 212.1	9914.0 171.6	8498.3 102.6	1230.3 17.4	132.4 0.9	1500
	8271.4 251.1	8562.6 252.2	9171.2 252.9	9748.1 242.4	9947.5 214.0	10066.0 173.8	9114.5 108.2	1205.4 18.3	137.4 1.0	1514
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	10173.3 308.7	10211.0 300.3	10262.1 283.0	10253.7 255.2	9952.4 211.6	8737.5 146.9	4418.4 58.9	1081.1 10.0	96.9 0.6	1575
	10494.8 316.9	10456.0 305.9	10304.1 282.5	9894.9 244.1	8572.6 183.9	6225.2 107.4	2518.4 36.0	827.9 7.5	78.8 0.4	1485
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	1187.2 37.0	1833.7 53.7	2386.8 63.5	1907.7 46.8	941.0 22.2	783.4 13.0	524.2 6.9	141.4 1.5	36.8 0.1	245
	99.6 3.1	129.8 3.6	165.8 4.4	169.6 4.0	101.7 2.2	107.1 1.7	88.4 1.1	45.8 0.4	14.3 0.0	21
90	3926	3902	3755	3367	2764	1992	1013	176	10	20904
Lumen Totals										

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Legend:

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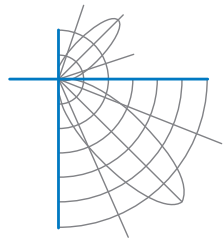
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	8257.25
87.0	20.82	-3.0	8238.44
84.0	121.44	-6.0	8235.63
81.0	256.03	-9.0	8239.74
78.0	361.39	-12.0	8243.78
75.0	553.33	-15.0	8257.47
72.0	2429.45	-18.0	8293.05
69.0	6003.95	-21.0	8346.77
66.0	8930.88	-24.0	8418.50
63.0	10111.07	-27.0	8511.17
60.0	10448.12	-30.0	8612.87
57.0	10516.10	-33.0	8734.30
54.0	10482.85	-36.0	8861.53
51.0	10378.98	-39.0	8973.27
48.0	10265.09	-42.0	9069.66
45.0	10167.41	-45.0	9172.72
42.0	10081.93	-48.0	9312.23
39.0	9972.08	-51.0	9476.66
36.0	9825.67	-54.0	9638.71
33.0	9633.42	-57.0	9738.27
30.0	9422.79	-60.0	9700.35
27.0	9221.06	-63.0	9091.88
24.0	9027.77	-66.0	8082.15
21.0	8857.17	-69.0	5543.50
18.0	8708.60	-72.0	2253.83
15.0	8578.94	-75.0	576.36
12.0	8477.16	-78.0	338.69
9.0	8398.81	-81.0	213.71
6.0	8338.73	-84.0	89.74
3.0	8291.21	-87.0	10.87
0.0	8257.25	-90.0	0.00

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	2.86	0.0	8257.25
87.0	84.28	-3.0	8270.83
84.0	243.94	-6.0	8305.21
81.0	560.10	-9.0	8366.45
78.0	876.26	-12.0	8456.16
75.0	1192.41	-15.0	8586.16
72.0	3602.58	-18.0	8771.94
69.0	6012.76	-21.0	8965.34
66.0	8422.93	-24.0	9156.38
63.0	9402.58	-27.0	9348.76
60.0	9666.98	-30.0	9540.63
57.0	9931.38	-33.0	9719.71
54.0	10094.76	-36.0	9838.52
51.0	10056.10	-39.0	9907.35
48.0	10017.44	-42.0	9937.15
45.0	9976.56	-45.0	9976.56
42.0	9937.15	-48.0	10017.44
39.0	9907.35	-51.0	10056.10
36.0	9838.52	-54.0	10094.76
33.0	9719.71	-57.0	9931.38
30.0	9540.63	-60.0	9666.98
27.0	9348.76	-63.0	9402.58
24.0	9156.38	-66.0	8422.93
21.0	8965.34	-69.0	6012.76
18.0	8771.94	-72.0	3602.58
15.0	8586.16	-75.0	1192.41
12.0	8456.16	-78.0	876.26
9.0	8366.45	-81.0	560.10
6.0	8305.21	-84.0	243.94
3.0	8270.83	-87.0	84.28
0.0	8257.25	-90.0	2.86

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



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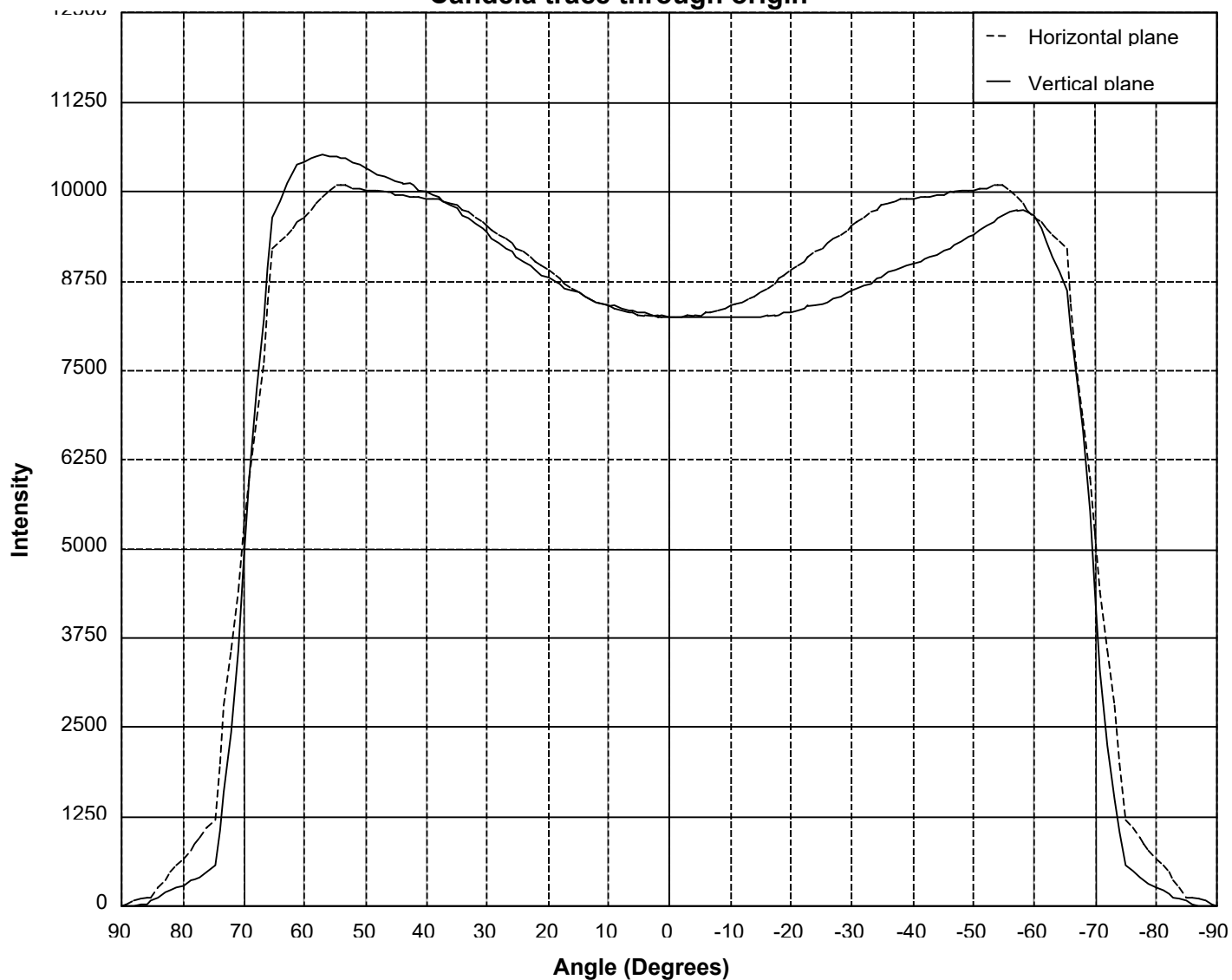
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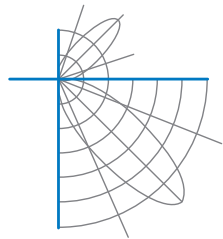
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Candela trace through origin



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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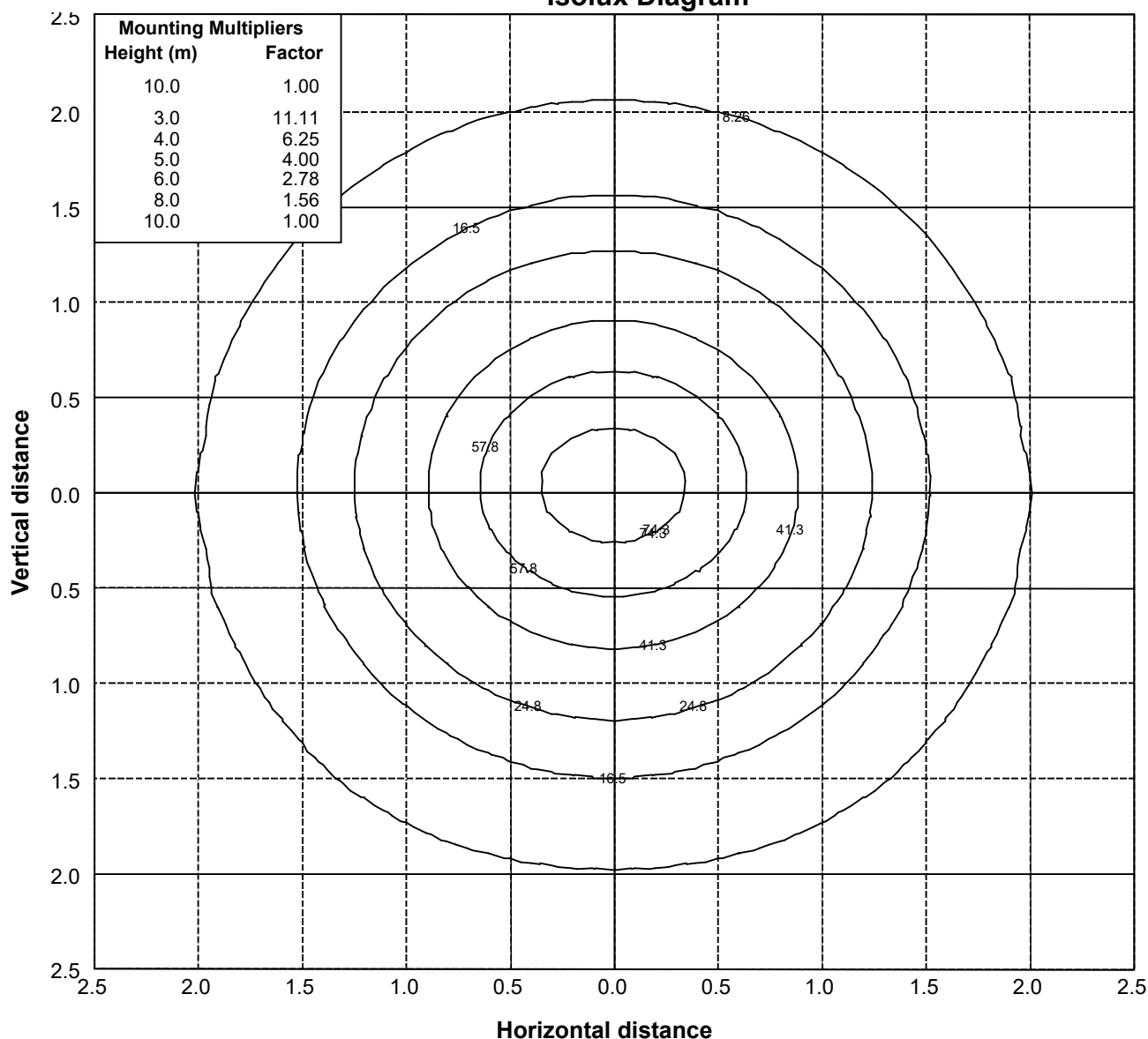
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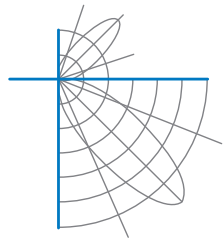
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Isolux Diagram



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 25.5 °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-16-93, IES LM-58-13, ANSI C78.377:2017.

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.

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.