

Report of Test

LLIA001282-001

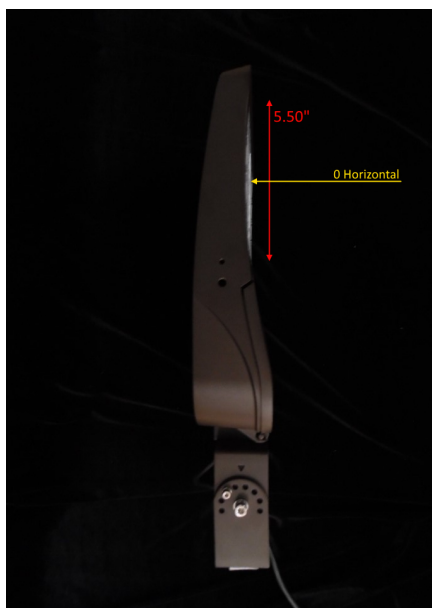
Catalog Number: F-FL/150/50K/TR-87

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

168 White LEDs, one L2732(120.3x295.7x1.5)SL03 LED board

One Sosen SS-150VA-56B LED driver

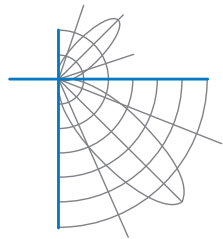
120.0Vac, 60.00Hz, 1.236A, 147.9W, 0.997PF, 3.6%THD(i)



Performance Summary

Total Light Output	20982 lm	Illuminance at 10m	53.2 lux
Luminaire Power	147.9 W	Beam Distance	145.9 Meters (to 0.25lux)
Luminous Efficacy	141.9 lm/W	Maximum Intensity	5324.85 cd
Beam Spread (50%)	137.9°Vx110.1°H		
Field Spread (10%)	146.8°Vx140.2°H		
NEMA Type	7H x 7V		

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



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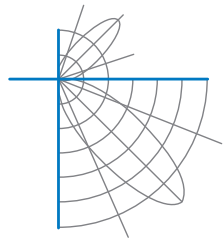
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Floodlight Summary:

Report data based on absolute values as measured.

Maximum Luminous Intensity	5324.85 cd
(Luminaire orientation as tested.)	-57.5° vertical
	0.0° horizontal

Beam Spread	At 10% of max intensity	146.8° V	x	140.2° H
	At 50% of max intensity	137.9° V	x	110.1° H
	At 90% of max intensity	25.5° V	x	77.7° H

Beam Flux	Total	20982 lm
	To 10% of max intensity	20751 lm
	To 50% of max intensity	19879 lm
	To 90% of max intensity	10484 lm

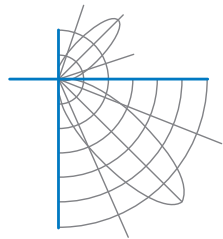
Total Light Output 20981.9 lm

Signed:

Authorized Signatory

Date of test
Date of report

17-Jul-2020
17-Jul-2020



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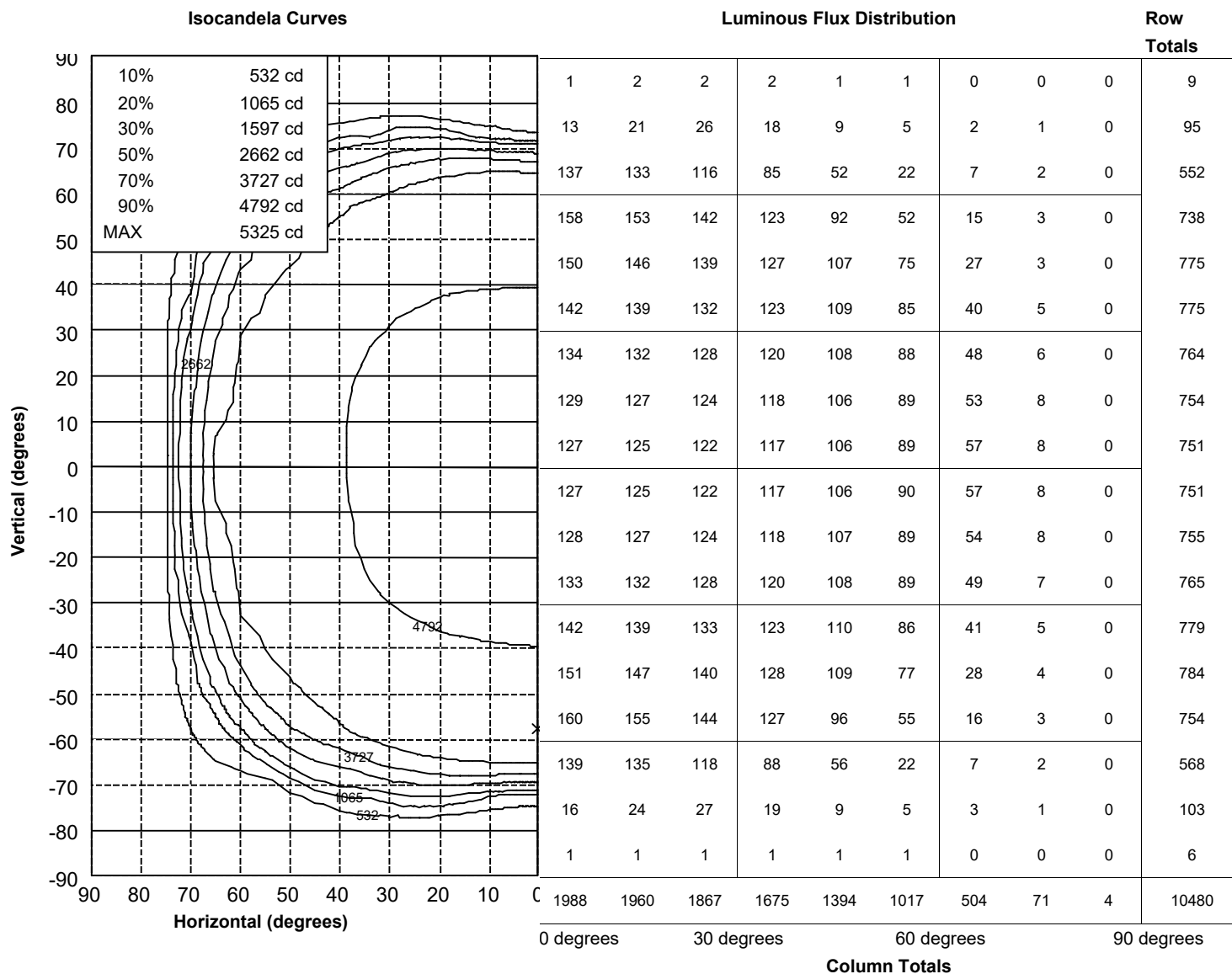
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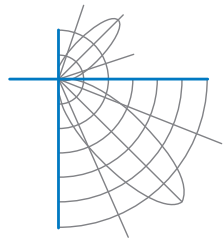
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Note: Left and right sides of photometric data have been averaged.
Lumen values are tabulated as absolute lumen values.
Candela values are tabulated as absolute candela values.



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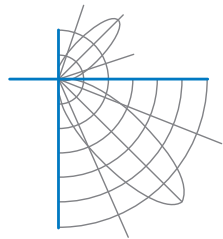
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Vertical Angle (degrees)	Left Side Horizontal Angle (degrees)									Lumen Totals
	-90		-60		-30				0	
-90	8.0 0.0	19.6 0.2	35.1 0.4	33.8 0.6	30.6 0.7	61.6 1.5	42.5 1.2	24.2 0.7	21.4 0.7	6
	19.3 0.1	59.2 0.6	198.4 2.6	261.2 4.6	418.3 9.5	764.2 19.1	1024.7 27.4	806.7 23.6	518.4 16.1	103
	30.3 0.1	163.5 1.7	520.5 7.0	1107.2 22.4	2609.3 55.9	3506.5 88.2	4391.7 118.5	4708.0 134.7	4784.1 139.3	568
-60	40.6 0.2	290.7 2.7	1028.5 15.6	3183.4 54.6	4454.0 95.6	5144.9 126.6	5262.9 144.2	5282.2 154.6	5285.5 159.6	754
	50.1 0.2	362.3 3.6	2102.2 28.4	4607.9 76.9	5144.9 109.2	5156.6 128.5	5050.4 139.5	4987.7 146.9	4965.1 150.8	784
	58.3 0.3	387.7 5.0	3135.3 40.6	4938.1 86.0	5146.2 110.3	4952.1 123.5	4817.0 132.8	4733.2 139.1	4671.9 141.7	779
-30	64.9 0.3	395.0 6.5	3936.9 48.7	5103.3 88.6	5039.9 108.3	4811.0 120.0	4644.1 128.0	4471.6 131.5	4390.2 133.1	765
	69.4 0.3	378.7 7.6	4503.9 53.9	5170.7 89.3	4973.5 107.0	4745.8 118.1	4488.6 123.9	4313.0 126.8	4233.2 128.4	755
	71.9 0.3	367.9 8.1	4841.4 56.8	5199.4 89.5	4937.3 106.2	4700.7 117.0	4417.8 121.9	4243.6 124.8	4171.6 126.5	751
0	71.7 0.3	366.7 8.1	4826.8 56.7	5189.8 89.3	4930.4 106.1	4698.1 116.9	4417.7 121.9	4248.0 124.9	4183.3 126.8	751
	68.9 0.3	376.0 7.5	4461.9 53.4	5134.8 88.7	4950.5 106.5	4733.2 117.8	4488.2 123.9	4324.9 127.2	4257.5 129.1	754
	64.1 0.3	389.8 6.5	3881.9 48.0	5048.0 87.7	5014.8 107.7	4800.6 119.7	4645.5 128.0	4490.4 132.1	4424.5 134.2	764
30	57.5 0.3	380.2 4.9	3070.7 39.8	4852.6 84.5	5101.4 109.4	4931.4 122.9	4797.3 132.3	4726.8 138.9	4687.2 142.1	775
	49.3 0.2	353.4 3.5	2037.0 27.5	4471.2 74.7	5059.1 107.3	5104.4 127.1	5015.4 138.5	4958.9 146.1	4942.5 150.1	775
	40.0 0.2	282.0 2.6	977.0 14.9	3055.6 52.4	4275.7 91.9	5018.7 123.4	5179.3 141.8	5227.8 152.9	5235.6 158.1	738
60	29.8 0.1	158.3 1.6	491.3 6.7	1089.3 21.6	2407.1 52.4	3356.9 84.6	4266.0 115.6	4657.1 133.1	4725.2 136.8	552
	18.9 0.1	57.6 0.6	189.2 2.5	275.9 4.7	395.0 9.1	740.1 18.5	981.4 25.9	705.9 20.7	429.8 13.4	95
	7.7 0.0	19.2 0.2	34.3 0.4	40.2 0.7	39.7 0.9	70.8 1.7	69.5 1.9	53.5 1.5	40.9 1.3	9
90	4	71	504	1017	1394	1675	1867	1960	1988	10480
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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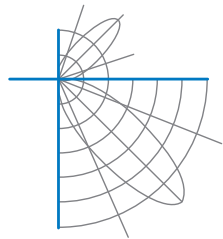
120.0Vac, 60.00Hz, 1.236A, 147.9W, 0.997PF, 3.6%THD(i)

Vertical Angle (degrees)	Right Side Horizontal Angle (degrees)									Lumen Totals
	0	30	60	90	120	150	180	210	240	
-90	21.4 0.7	24.2 0.7	42.5 1.2	61.6 1.5	30.6 0.7	33.8 0.6	35.1 0.4	19.6 0.2	8.0 0.0	6
	518.4 16.1	806.7 23.6	1024.7 27.4	764.2 19.1	418.3 9.5	261.2 4.6	198.4 2.6	59.2 0.6	19.3 0.1	103
	4784.1 139.3	4708.0 134.7	4391.7 118.5	3506.5 88.2	2609.3 55.9	1107.2 22.4	520.5 7.0	163.5 1.7	30.3 0.1	568
-60	5285.5 159.6	5282.2 154.6	5262.9 144.2	5144.9 126.6	4454.0 95.6	3183.4 54.6	1028.5 15.6	290.7 2.7	40.6 0.2	754
	4965.1 150.8	4987.7 146.9	5050.4 139.5	5156.6 128.5	5144.9 109.2	4607.9 76.9	2102.2 28.4	362.3 3.6	50.1 0.2	784
	4671.9 141.7	4733.2 139.1	4817.0 132.8	4952.1 123.5	5146.2 110.3	4938.1 86.0	3135.3 40.6	387.7 5.0	58.3 0.3	779
-30	4390.2 133.1	4471.6 131.5	4644.1 128.0	4811.0 120.0	5039.9 108.3	5103.3 88.6	3936.9 48.7	395.0 6.5	64.9 0.3	765
	4233.2 128.4	4313.0 126.8	4488.6 123.9	4745.8 118.1	4973.5 107.0	5170.7 89.3	4503.9 53.9	378.7 7.6	69.4 0.3	755
	4171.6 126.5	4243.6 124.8	4417.8 121.9	4700.7 117.0	4937.3 106.2	5199.4 89.5	4841.4 56.8	367.9 8.1	71.9 0.3	751
0	4183.3 126.8	4248.0 124.9	4417.7 121.9	4698.1 116.9	4930.4 106.1	5189.8 89.3	4826.8 56.7	366.7 8.1	71.7 0.3	751
	4257.5 129.1	4324.9 127.2	4488.2 123.9	4733.2 117.8	4950.5 106.5	5134.8 88.7	4461.9 53.4	376.0 7.5	68.9 0.3	754
	4424.5 134.2	4490.4 132.1	4645.5 128.0	4800.6 119.7	5014.8 107.7	5048.0 87.7	3881.9 48.0	389.8 6.5	64.1 0.3	764
30	4687.2 142.1	4726.8 138.9	4797.3 132.3	4931.4 122.9	5101.4 109.4	4852.6 84.5	3070.7 39.8	380.2 4.9	57.5 0.3	775
	4942.5 150.1	4958.9 146.1	5015.4 138.5	5104.4 127.1	5059.1 107.3	4471.2 74.7	2037.0 27.5	353.4 3.5	49.3 0.2	775
	5235.6 158.1	5227.8 152.9	5179.3 141.8	5018.7 123.4	4275.7 91.9	3055.6 52.4	977.0 14.9	282.0 2.6	40.0 0.2	738
60	4725.2 136.8	4657.1 133.1	4266.0 115.6	3356.9 84.6	2407.1 52.4	1089.3 21.6	491.3 6.7	158.3 1.6	29.8 0.1	552
	429.8 13.4	705.9 20.7	981.4 25.9	740.1 18.5	395.0 9.1	275.9 4.7	189.2 2.5	57.6 0.6	18.9 0.1	95
	40.9 1.3	53.5 1.5	69.5 1.9	70.8 1.7	39.7 0.9	40.2 0.7	34.3 0.4	19.2 0.2	7.7 0.0	9
90	1988	1960	1867	1675	1394	1017	504	71	4	10480
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.
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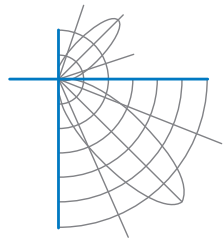
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Candela trace through origin.

Vertical Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	0.00	0.0	4158.17
87.0	5.47	-3.0	4154.77
84.0	48.42	-6.0	4159.93
81.0	124.21	-9.0	4175.65
78.0	177.94	-12.0	4196.80
75.0	237.49	-15.0	4219.05
72.0	873.33	-18.0	4252.93
69.0	2557.45	-21.0	4296.62
66.0	4294.95	-24.0	4349.27
63.0	5096.89	-27.0	4413.61
60.0	5268.22	-30.0	4492.19
57.0	5263.54	-33.0	4590.33
54.0	5209.75	-36.0	4693.39
51.0	5127.93	-39.0	4775.44
48.0	5033.92	-42.0	4855.61
45.0	4937.75	-45.0	4953.75
42.0	4850.27	-48.0	5066.08
39.0	4778.50	-51.0	5173.24
36.0	4710.83	-54.0	5259.20
33.0	4622.80	-57.0	5316.82
30.0	4532.95	-60.0	5314.62
27.0	4457.59	-63.0	5146.00
24.0	4391.04	-66.0	4420.60
21.0	4333.30	-69.0	2719.64
18.0	4285.61	-72.0	1034.33
15.0	4246.56	-75.0	269.84
12.0	4215.19	-78.0	183.54
9.0	4192.60	-81.0	102.42
6.0	4178.18	-84.0	18.81
3.0	4166.30	-87.0	0.00
0.0	4158.17	-90.0	0.00

Horizontal Trace			
Angle	Intensity (cd)	Angle	Intensity (cd)
90.0	2.04	0.0	4158.17
87.0	44.27	-3.0	4163.61
84.0	101.48	-6.0	4171.60
81.0	188.63	-9.0	4184.89
78.0	275.77	-12.0	4204.65
75.0	362.92	-15.0	4233.79
72.0	1721.73	-18.0	4276.84
69.0	3080.54	-21.0	4325.61
66.0	4439.35	-24.0	4382.40
63.0	4954.02	-27.0	4452.76
60.0	5046.62	-30.0	4534.65
57.0	5139.21	-33.0	4627.67
54.0	5172.67	-36.0	4720.29
51.0	5087.87	-39.0	4796.25
48.0	5003.06	-42.0	4855.63
45.0	4927.23	-45.0	4927.23
42.0	4855.63	-48.0	5003.06
39.0	4796.25	-51.0	5087.87
36.0	4720.29	-54.0	5172.67
33.0	4627.67	-57.0	5139.21
30.0	4534.65	-60.0	5046.62
27.0	4452.76	-63.0	4954.02
24.0	4382.40	-66.0	4439.35
21.0	4325.61	-69.0	3080.54
18.0	4276.84	-72.0	1721.73
15.0	4233.79	-75.0	362.92
12.0	4204.65	-78.0	275.77
9.0	4184.89	-81.0	188.63
6.0	4171.60	-84.0	101.48
3.0	4163.61	-87.0	44.27
0.0	4158.17	-90.0	2.04

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



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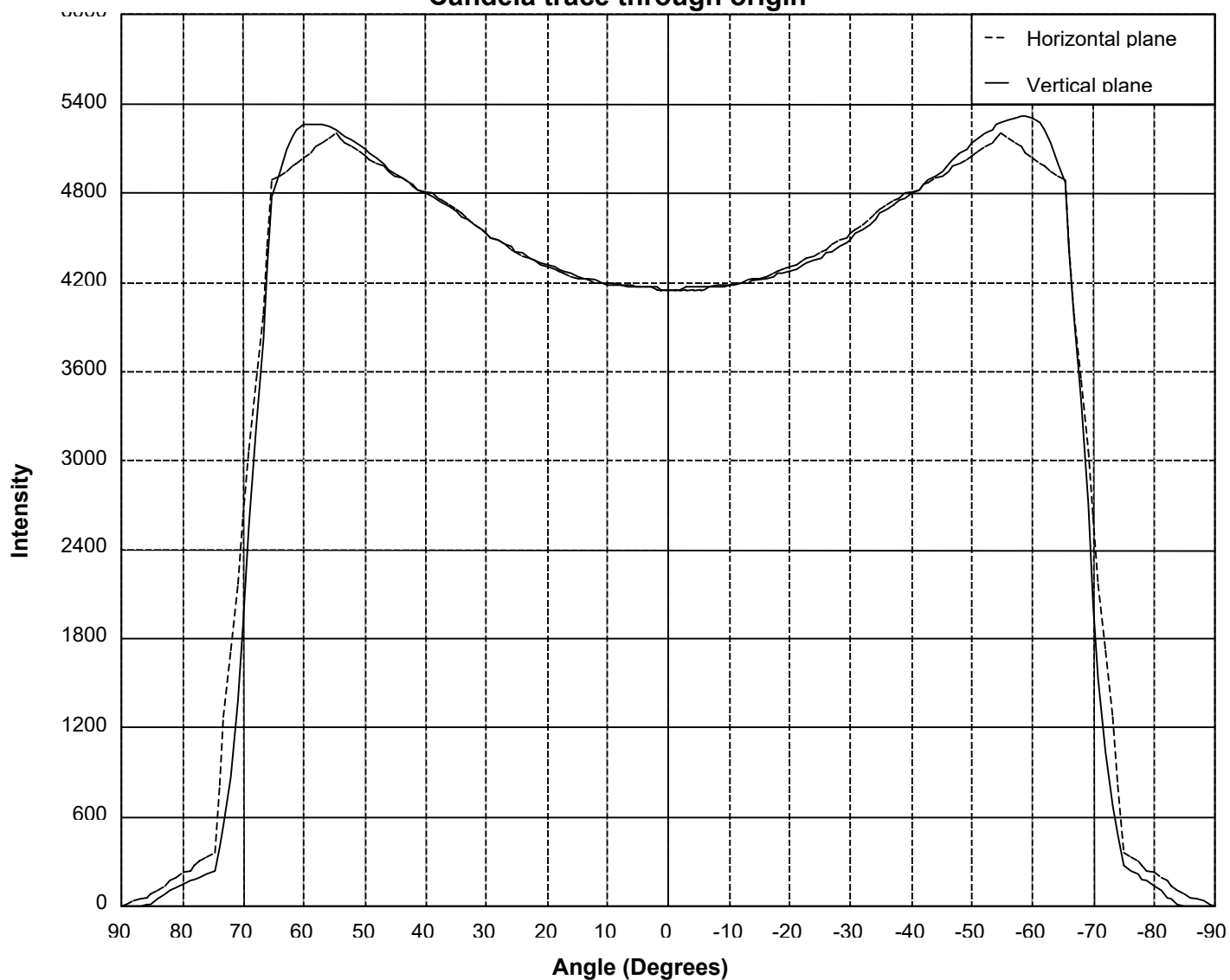
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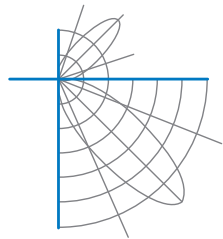
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Candela trace through origin



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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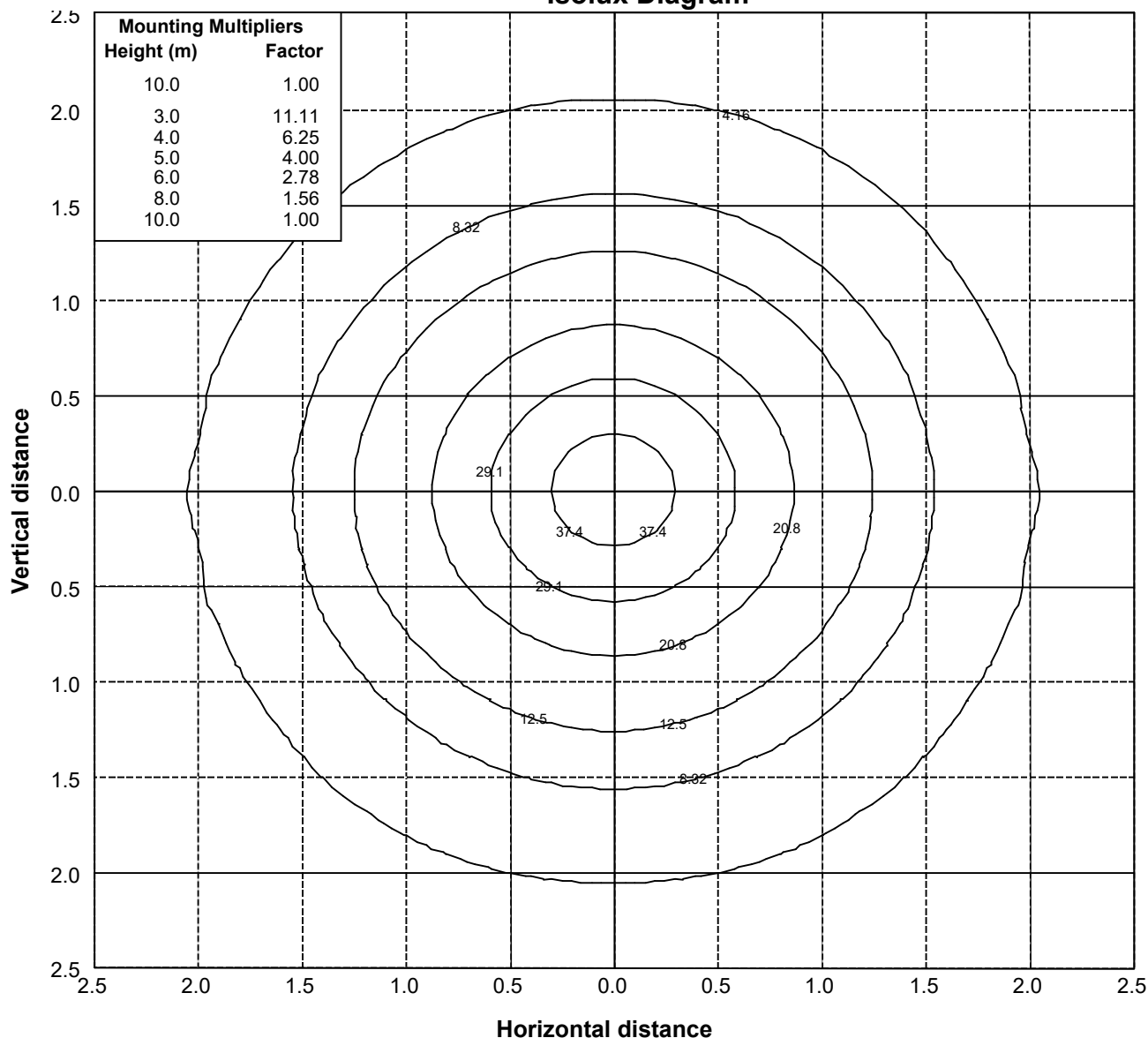
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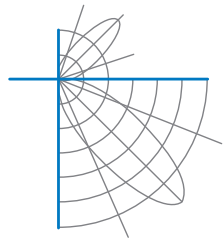
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Isolux Diagram



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 25.6 °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.

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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.