

LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P484770

Luminaire Tested: **IFLD-M-SA4D-735-U-SL4-HSS**

Issue Date: 02/26/2021

Tested By:

Approved By:



NVLAP Lab Code: 200050-0

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Test Information

Test Method: LM-79-08
 Report Number: P484770
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 02/26/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-M-SA4D-735-U-SL4-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens with House Side Shield
 Light Source: (64) 3500K CCT, 70 CRI LEDs
 Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 25490.1 lumens
 Efficiency: N/A
 Efficacy: 102.1 lumens/watt
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 IES Classification: Type IV - Short
 BUG Rating: B2 - U0 - G4

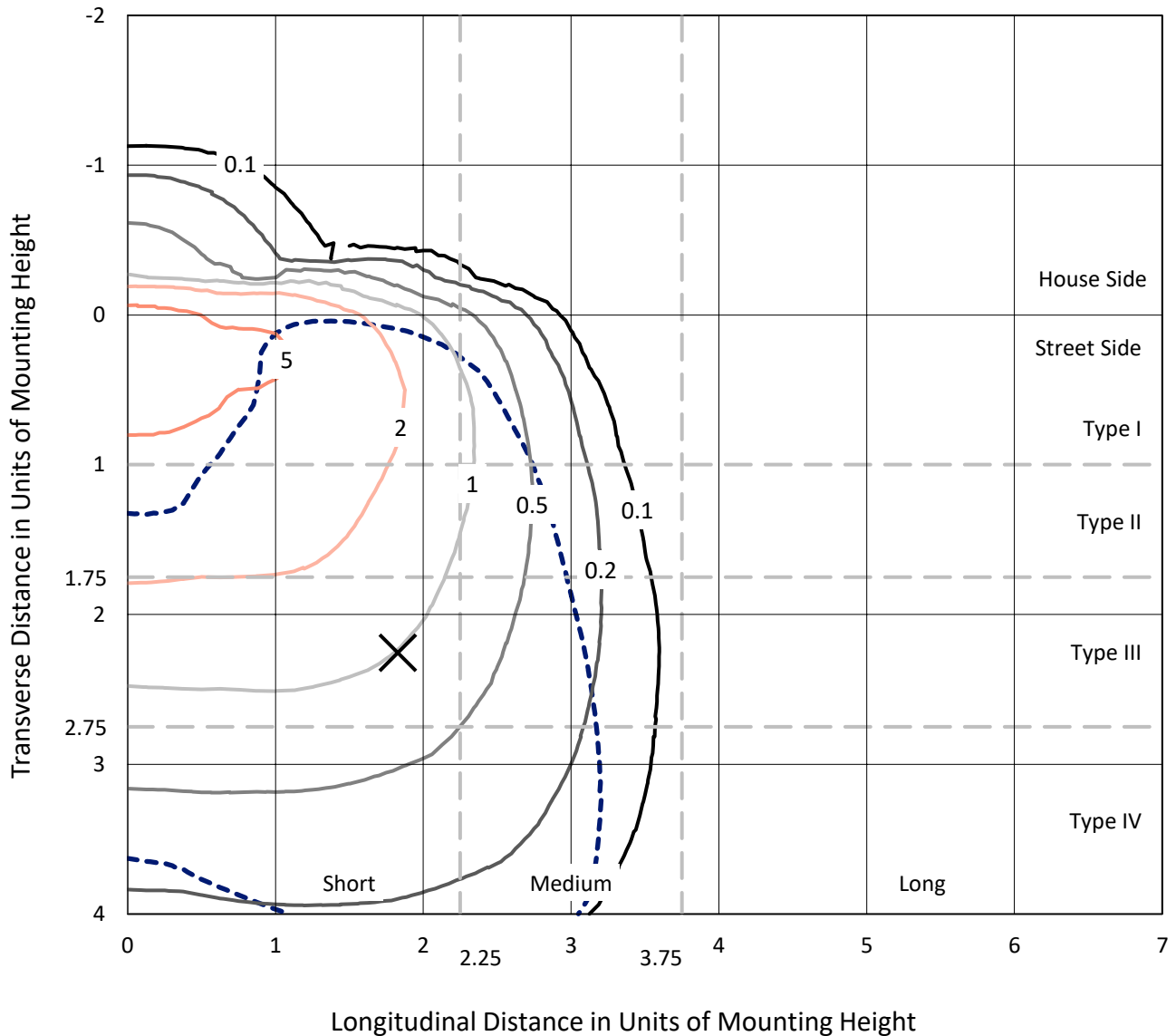
Input Watts (W): 249.7
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	GONIO 1 IN0055	4/22/2021	10/22/2021
Power Meter	XITRON 2801 IN0197	12/1/2020	12/1/2021
AC Power Source	CHROMA 61505 IN0196	12/1/2020	12/1/2021
DC Power Supply	AGILENT E3634A IN0198	11/30/2020	11/30/2021

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Iso-Footcandle Lines of Horizontal Illumination

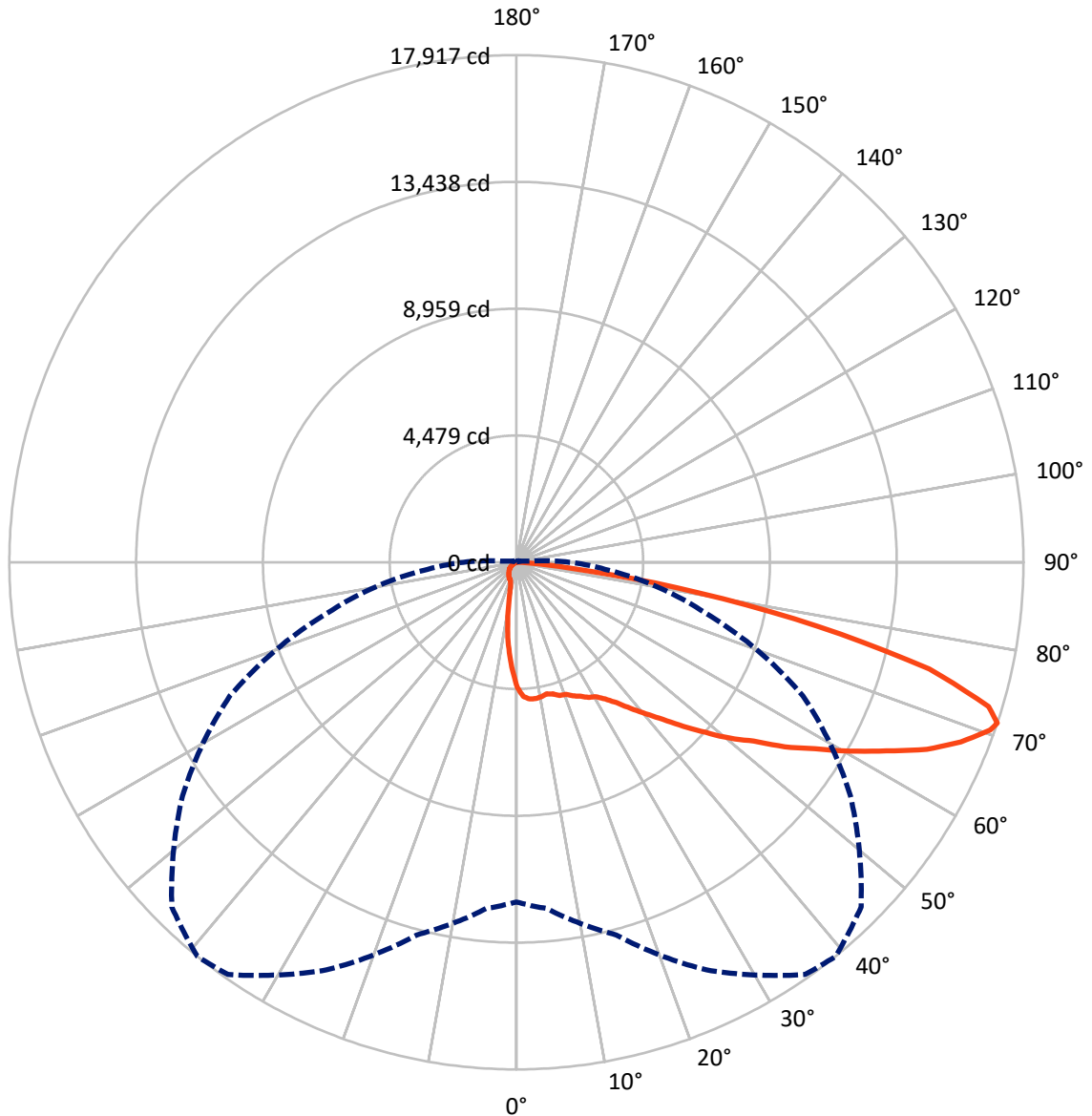
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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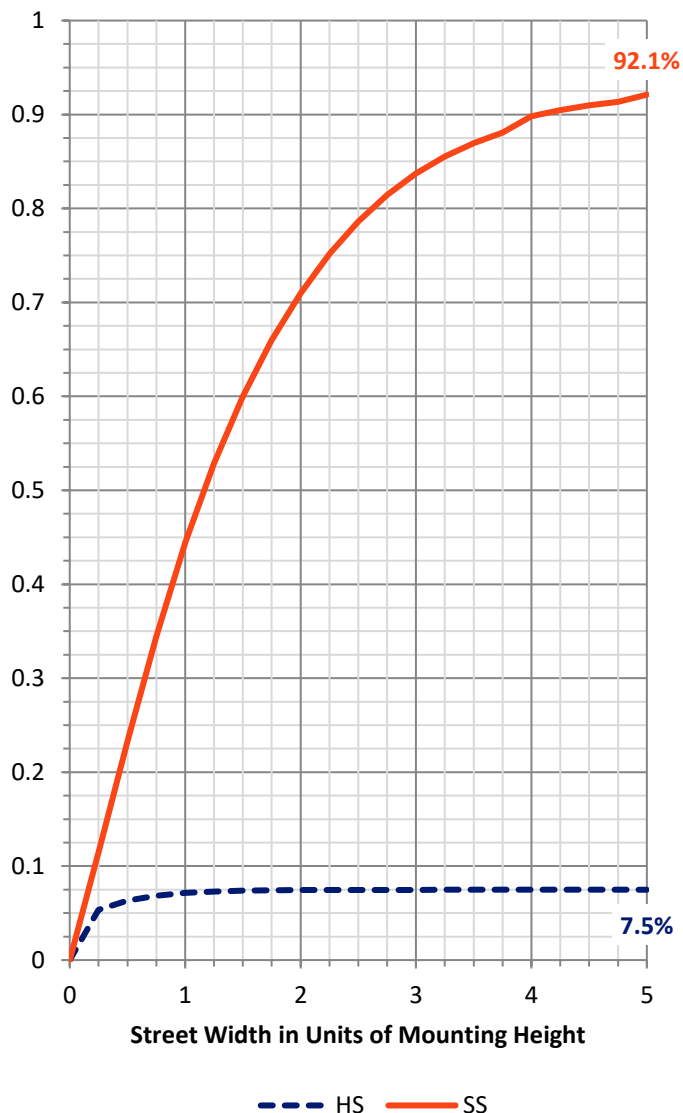
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1919.0	0.0	1919.0
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	23571.1	0.0	23571.1
	% Fixture	92.5	0.0	92.5
Total	Lumens	25490.1	0.0	25490.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.9	1.5
10°-20°	913.0	3.6
20°-30°	1465.7	5.8
30°-40°	2243.6	8.8
40°-50°	3601.4	14.1
50°-60°	5289.9	20.8
60°-70°	6662.4	26.1
70°-80°	4446.3	17.4
80°-90°	496.9	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25490.1	100.0
0°-180°	25490.1	100.0

Coefficient of Utilization

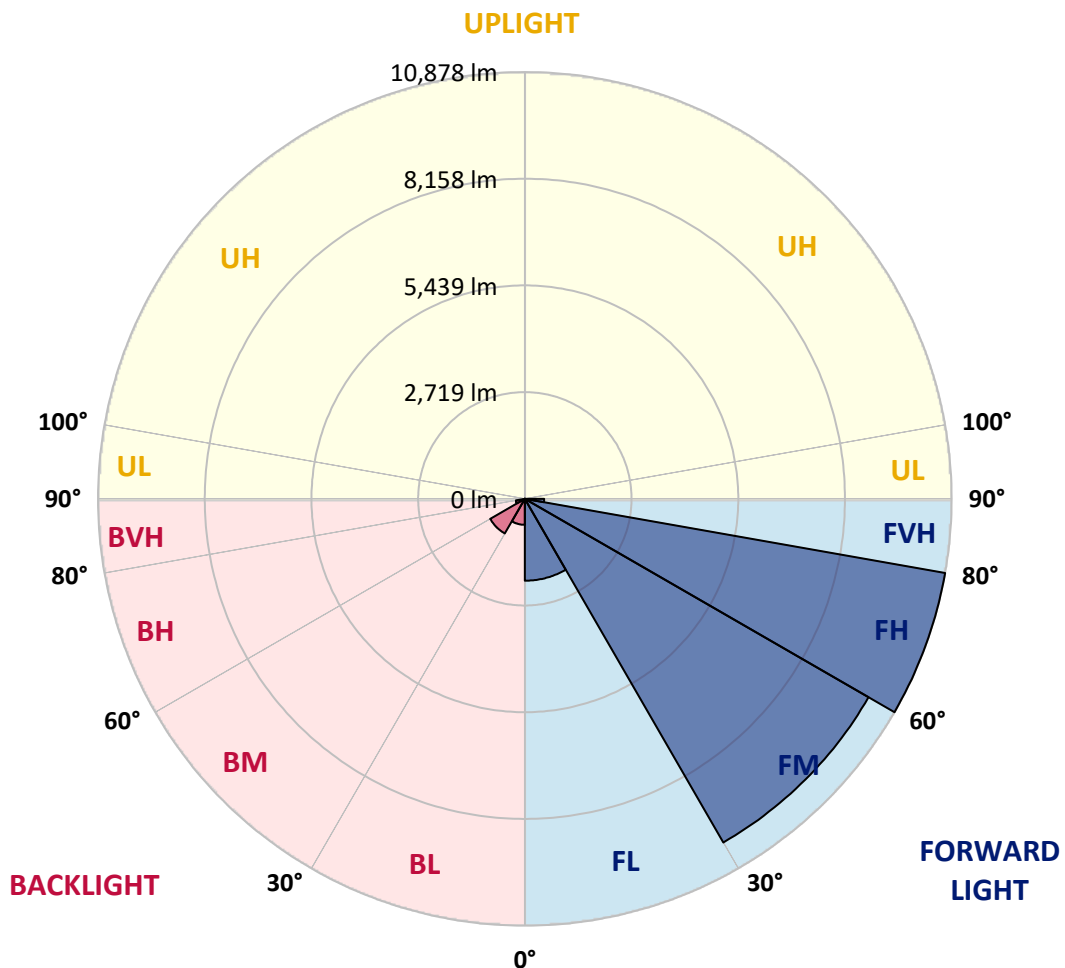


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2087.1	8.2			
FM (30°-60°)	10114.9	39.7			
FH (60°-80°)	10877.7	42.7			G4/12000
FVH (80°-90°)	491.4	1.9			G3/500
BL (0°-30°)	662.5	2.6	B2/1000		
BM (30°-60°)	1020.0	4.0	B2/2500		
BH (60°-80°)	231.0	0.9	B1/500		G1/500
BVH (80°-90°)	5.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7
2.5°	4781.1	4827.9	4781.1	4761.0	4741.0	4744.3	4690.8	4700.9	4637.3	4553.7	4486.9
5°	4931.5	4995.1	4944.9	4921.5	4918.2	4854.6	4827.9	4764.4	4687.5	4557.1	4476.8
7.5°	4918.2	4904.8	4928.2	4908.1	4864.7	4864.7	4834.6	4744.3	4667.4	4520.3	4383.2
10°	4817.9	4858.0	4837.9	4814.5	4824.6	4827.9	4771.1	4707.5	4684.1	4537.0	4313.0
12.5°	4807.8	4741.0	4814.5	4817.9	4774.4	4771.1	4764.4	4747.7	4674.1	4540.4	4329.7
15°	4774.4	4747.7	4821.2	4824.6	4834.6	4824.6	4834.6	4821.2	4747.7	4670.8	4403.3
17.5°	4801.2	4771.1	4874.7	4924.9	4901.5	4948.3	4931.5	4871.4	4807.8	4717.6	4473.5
20°	4807.8	4851.3	4965.0	4985.0	5058.6	4981.7	4978.4	4914.8	4874.7	4777.7	4517.0
22.5°	4931.5	4951.6	5092.0	5135.5	5138.8	5128.8	5045.2	4971.7	4955.0	4834.6	4527.0
25°	5118.8	5189.0	5252.5	5279.3	5289.3	5242.5	5155.6	5061.9	5021.8	4944.9	4630.6
27.5°	5449.8	5406.3	5463.2	5503.3	5389.6	5406.3	5296.0	5215.7	5158.9	5092.0	4751.0
30°	5744.0	5703.9	5707.2	5700.5	5603.6	5513.3	5483.2	5342.8	5272.6	5299.3	4938.2
32.5°	6008.1	5921.2	5994.8	5961.3	5780.8	5754.0	5730.6	5553.4	5566.8	5690.5	5219.1
35°	6252.2	6222.1	6282.3	6222.1	6101.7	6095.1	6071.7	5917.9	5991.4	6168.6	5700.5
37.5°	6476.2	6486.2	6559.8	6529.7	6539.7	6546.4	6533.0	6369.2	6579.9	6977.7	6262.2
40°	6683.5	6670.1	6850.7	6944.3	6964.3	7037.9	7037.9	6997.8	7322.1	7770.1	7041.2
42.5°	6904.2	6937.6	7171.6	7328.8	7519.4	7582.9	7669.8	7689.9	8191.4	8702.9	7837.0
45°	7265.3	7208.4	7506.0	7877.1	8044.3	8268.3	8402.0	8515.7	9120.9	9823.0	8632.7
47.5°	7723.3	7609.6	7870.4	8408.7	8796.5	8980.4	9221.2	9371.6	9963.4	10688.9	9385.0
50°	8231.5	8114.5	8241.5	8983.8	9435.1	9769.5	10077.1	10267.6	10983.1	11658.5	9933.3
52.5°	8806.6	8699.6	8719.6	9582.2	10247.6	10491.7	10896.2	11180.4	11892.6	12243.6	10127.2
55°	9418.4	9391.7	9328.1	10167.3	10959.7	11508.1	11752.1	12093.2	12825.4	12561.2	10337.9
57.5°	10033.6	9950.0	10040.3	10943.0	12103.2	12430.8	12768.5	12972.5	13343.6	12838.7	10257.6
60°	10612.0	10618.7	10745.8	11785.6	13076.1	13540.9	13845.1	13721.4	13875.2	12959.1	10073.7
62.5°	11100.2	11086.8	11407.8	12731.7	14363.3	14677.6	14905.0	14353.3	14122.6	13076.1	9752.8
65°	11538.1	11688.6	12193.5	13858.5	15573.7	15934.7	15797.7	14951.8	14363.3	12731.7	8850.0
67.5°	11869.1	12093.2	12969.1	14918.3	16683.7	16937.8	16747.2	15406.5	14079.1	11381.0	7208.4
70°	12063.1	12290.4	13524.1	15801.0	17569.7	17753.6	17305.6	15055.4	12420.8	8241.5	4496.9
71°	12002.9	12280.4	13631.1	15894.6	17780.3	17917.4	17222.0	14406.8	11170.4	6900.8	3279.9
72.5°	11457.9	11718.7	13186.5	15827.8	17526.2	17442.6	16570.0	12848.8	8793.2	4399.9	1695.1
75°	8418.7	8699.6	11317.5	13691.3	15643.9	15068.8	13410.5	9017.2	4587.2	1347.4	494.8
77.5°	4192.7	4239.5	7024.5	9940.0	11474.6	10902.9	8987.1	5028.5	1715.2	397.9	247.4
80°	1932.5	1945.9	2634.6	5148.9	6937.6	6529.7	5035.2	2480.8	775.7	210.6	193.9
82.5°	1317.3	1337.4	1588.1	2133.1	3012.4	2541.0	2039.5	1588.1	444.7	127.1	190.6
85°	240.7	220.7	889.4	1130.1	1163.5	789.0	705.5	1374.1	167.2	73.6	167.2
87.5°	0.0	3.3	123.7	461.4	414.6	183.9	240.7	334.3	16.7	23.4	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7	4436.7
2.5°	4430.0	4393.3	4269.5	4132.5	4008.8	3911.8	3788.1	3731.3	3641.0	3590.8	3587.5
5°	4366.5	4266.2	4052.2	3821.5	3564.1	3350.1	3112.7	2979.0	2825.2	2778.4	2768.4
7.5°	4259.5	4115.8	3801.5	3477.2	3082.6	2704.8	2414.0	2103.0	1912.4	1832.2	1802.1
10°	4192.7	4018.8	3590.8	3106.0	2554.4	2022.8	1614.9	1283.9	1110.0	1026.4	1006.4
12.5°	4192.7	4005.4	3420.3	2751.6	2019.4	1384.2	999.7	809.1	752.3	732.2	732.2
15°	4182.6	3978.7	3256.5	2387.2	1494.5	929.5	745.6	705.5	698.8	695.4	692.1
17.5°	4232.8	3931.9	3089.3	1996.0	1056.5	732.2	685.4	678.7	672.0	672.0	665.3
20°	4269.5	3905.1	2888.7	1581.4	789.0	678.7	658.7	648.6	645.3	641.9	648.6
22.5°	4239.5	3865.0	2641.3	1183.6	688.7	645.3	631.9	621.9	615.2	615.2	618.5
25°	4296.3	3828.2	2393.9	892.7	645.3	615.2	601.8	595.1	591.8	588.4	581.8
27.5°	4373.2	3844.9	2099.7	718.8	608.5	585.1	571.7	565.0	561.7	555.0	561.7
30°	4466.8	3841.6	1775.4	628.6	575.1	551.7	538.3	534.9	528.3	524.9	528.3
32.5°	4627.3	3928.5	1441.0	581.8	538.3	518.2	504.9	501.5	498.2	494.8	491.5
35°	4971.7	4035.5	1126.7	545.0	504.9	481.5	471.4	464.7	461.4	458.0	454.7
37.5°	5396.3	4272.9	859.3	511.5	471.4	448.0	438.0	434.6	421.3	417.9	414.6
40°	5927.9	4527.0	662.0	474.8	441.3	417.9	407.9	397.9	381.2	374.5	367.8
42.5°	6589.9	4774.4	545.0	441.3	407.9	391.2	374.5	357.7	344.4	331.0	324.3
45°	7251.9	5061.9	478.1	411.2	381.2	361.1	347.7	324.3	300.9	280.8	277.5
47.5°	7803.5	5165.6	438.0	377.8	354.4	337.7	317.6	287.5	254.1	234.0	230.7
50°	8214.8	5105.4	397.9	344.4	324.3	307.6	280.8	244.1	210.6	190.6	183.9
52.5°	8295.0	4841.3	361.1	317.6	294.2	274.2	244.1	203.9	167.2	147.1	143.8
55°	8238.2	4403.3	331.0	294.2	267.5	237.4	203.9	163.8	130.4	110.3	107.0
57.5°	8121.2	3885.1	297.6	264.1	234.0	203.9	167.2	133.7	97.0	76.9	76.9
60°	7723.3	3179.6	264.1	230.7	200.6	173.9	137.1	97.0	66.9	50.2	46.8
62.5°	7168.3	2444.0	230.7	197.3	173.9	143.8	107.0	70.2	40.1	26.7	26.7
65°	6155.2	1711.8	193.9	163.8	143.8	117.0	80.2	43.5	23.4	10.0	10.0
67.5°	4677.4	1059.9	160.5	137.1	123.7	93.6	56.8	26.7	10.0	3.3	0.0
70°	2684.8	551.7	127.1	110.3	97.0	70.2	40.1	13.4	6.7	0.0	0.0
71°	1875.7	407.9	113.7	97.0	86.9	63.5	33.4	10.0	3.3	0.0	0.0
72.5°	939.5	270.8	97.0	80.2	70.2	50.2	26.7	10.0	3.3	0.0	0.0
75°	334.3	173.9	66.9	53.5	50.2	36.8	16.7	6.7	3.3	0.0	0.0
77.5°	230.7	140.4	46.8	33.4	33.4	23.4	10.0	3.3	3.3	0.0	0.0
80°	210.6	76.9	30.1	20.1	16.7	13.4	6.7	3.3	0.0	0.0	0.0
82.5°	210.6	56.8	16.7	13.4	10.0	6.7	3.3	0.0	0.0	0.0	0.0
85°	147.1	30.1	10.0	10.0	6.7	3.3	0.0	0.0	0.0	0.0	0.0
87.5°	23.4	10.0	6.7	3.3	3.3	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Report Generated By 670245763

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
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Peachtree City, GA 30269



NVLAP Lab Code: 200050-0



Room Thermometer	ONSET IN0143	12/1/2020	12/1/2021
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