

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: P483485

Luminaire Tested: **IFLD-L-SA7A-722-U-T4W-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: P483485
 Test Lab: INNOVATION CENTER(G2)
 Issue Date: 02/26/2021
 Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
 Product Line: STREETWORKS
 Catalog Number: IFLD-L-SA7A-722-U-T4W-HSS
 Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4W distribution lens with House Side Shield
 Light Source: (112) 2200K CCT, 70 CRI LEDS
 Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
 Luminaire Lumens: 17011.5 lumens
 Efficiency: N/A
 Efficacy: 78.2 lumens/watt
 Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
 IES Classification: Type IV - Short
 BUG Rating: B1 - U0 - G4

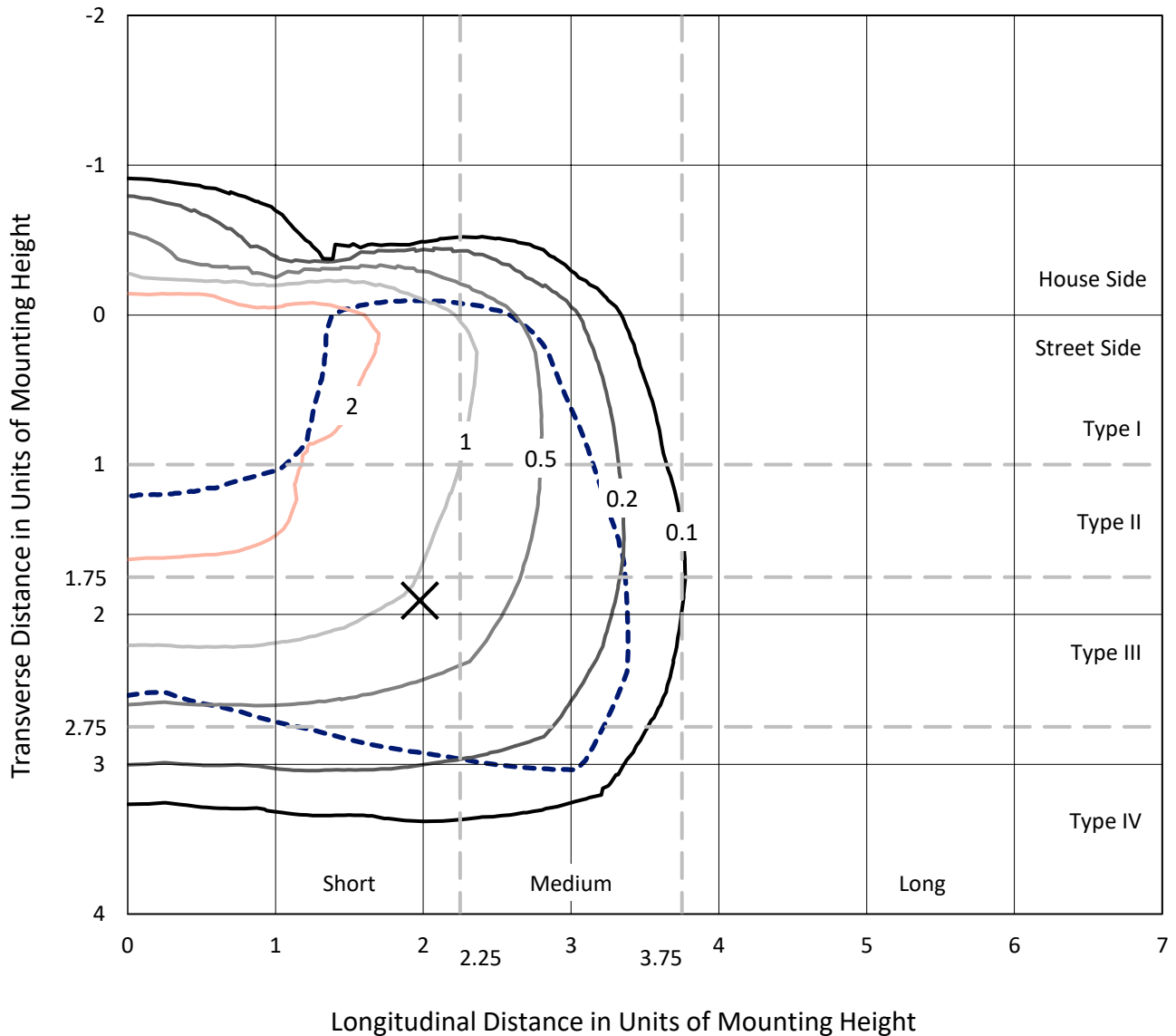
Input Watts (W): 217.6
 Input Voltage (V): 120
 Input Current (Ain): NR
 Voltage Rise (V): NR
 Power Factor: NR
 Total Harmonic Distortion (THDi): NR
 Frequency (hertz): 60
 Stabilization Time: NR
 Operation Time: NR
 Ambient Temperature (°C): NR
 Test Distance: 25 FT

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

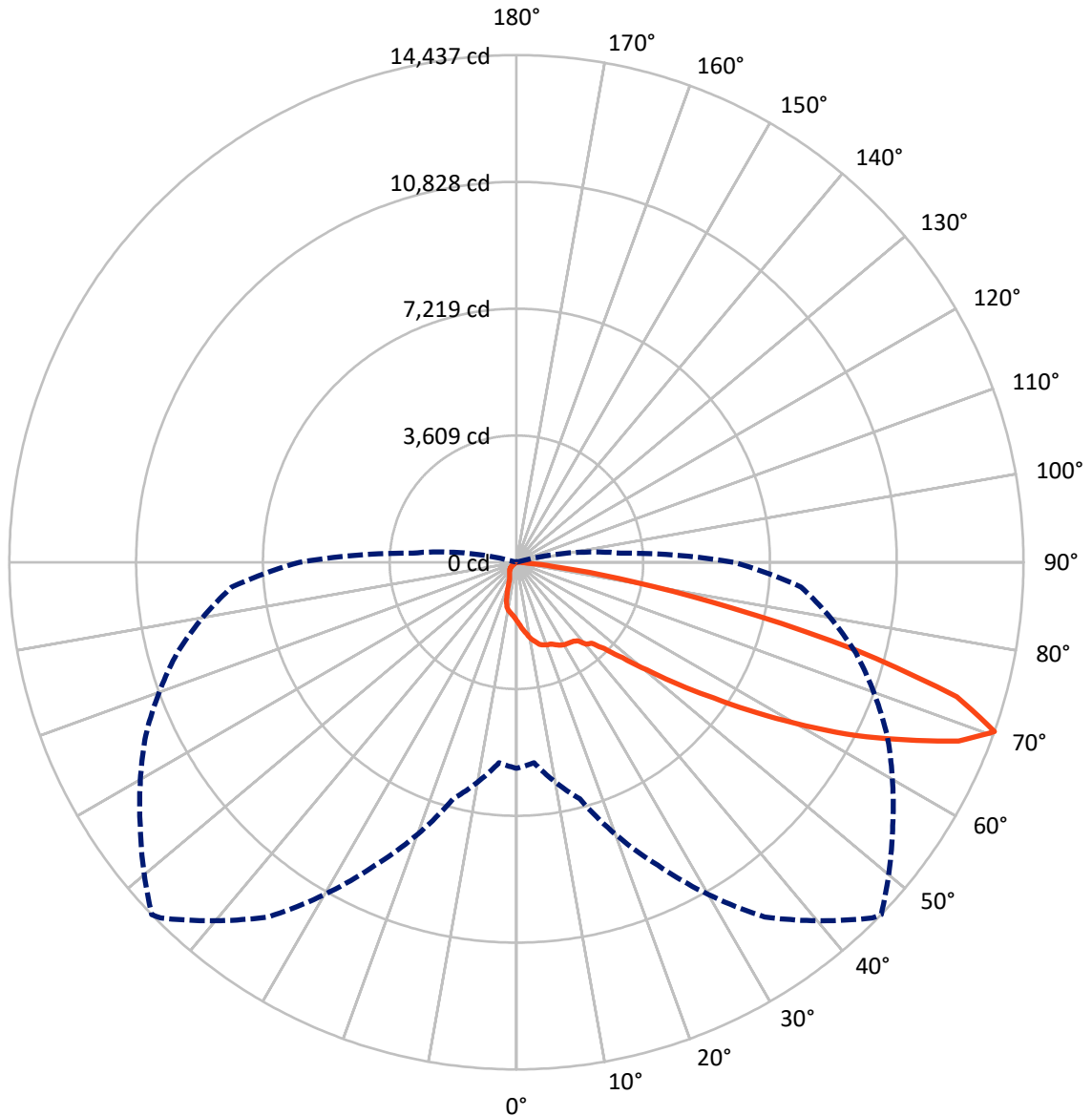
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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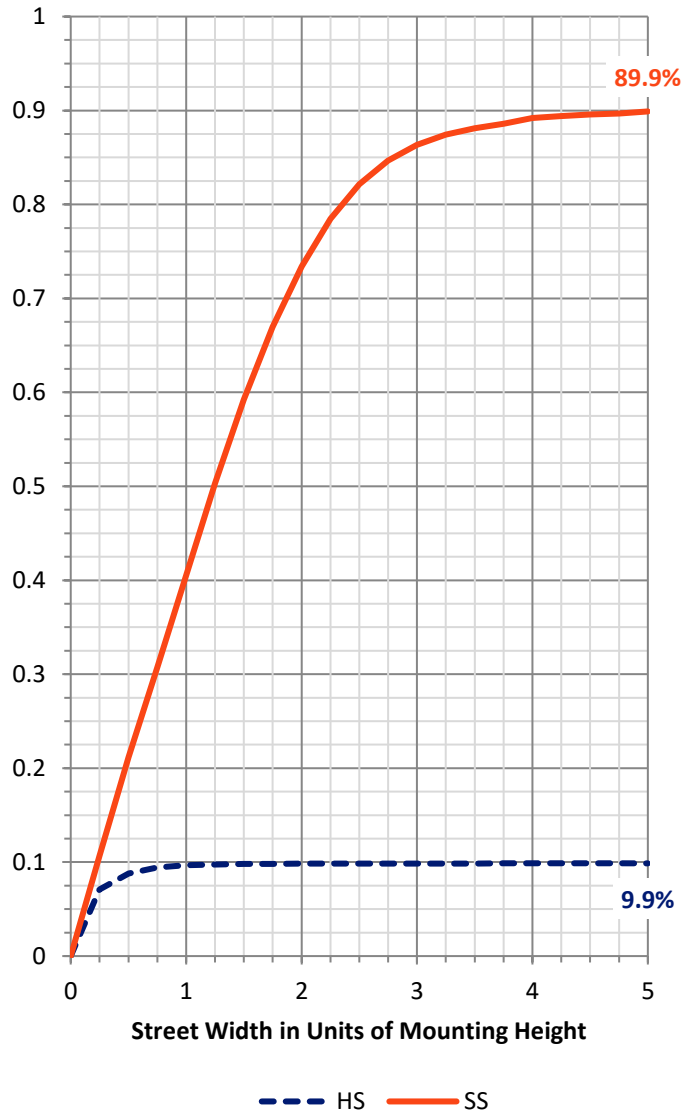
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1692.7	0.0	1692.7
	% Fixture	10.0	0.0	10.0
Street Side	Lumens	15318.8	0.0	15318.8
	% Fixture	90.0	0.0	90.0
Total	Lumens	17011.5	0.0	17011.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.0
10°-20°	502.9	3.0
20°-30°	805.5	4.7
30°-40°	1149.7	6.8
40°-50°	1985.3	11.7
50°-60°	3801.0	22.3
60°-70°	5628.6	33.1
70°-80°	2787.8	16.4
80°-90°	184.2	1.1
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°	17011.5	100.0
0°-180°	17011.5	100.0

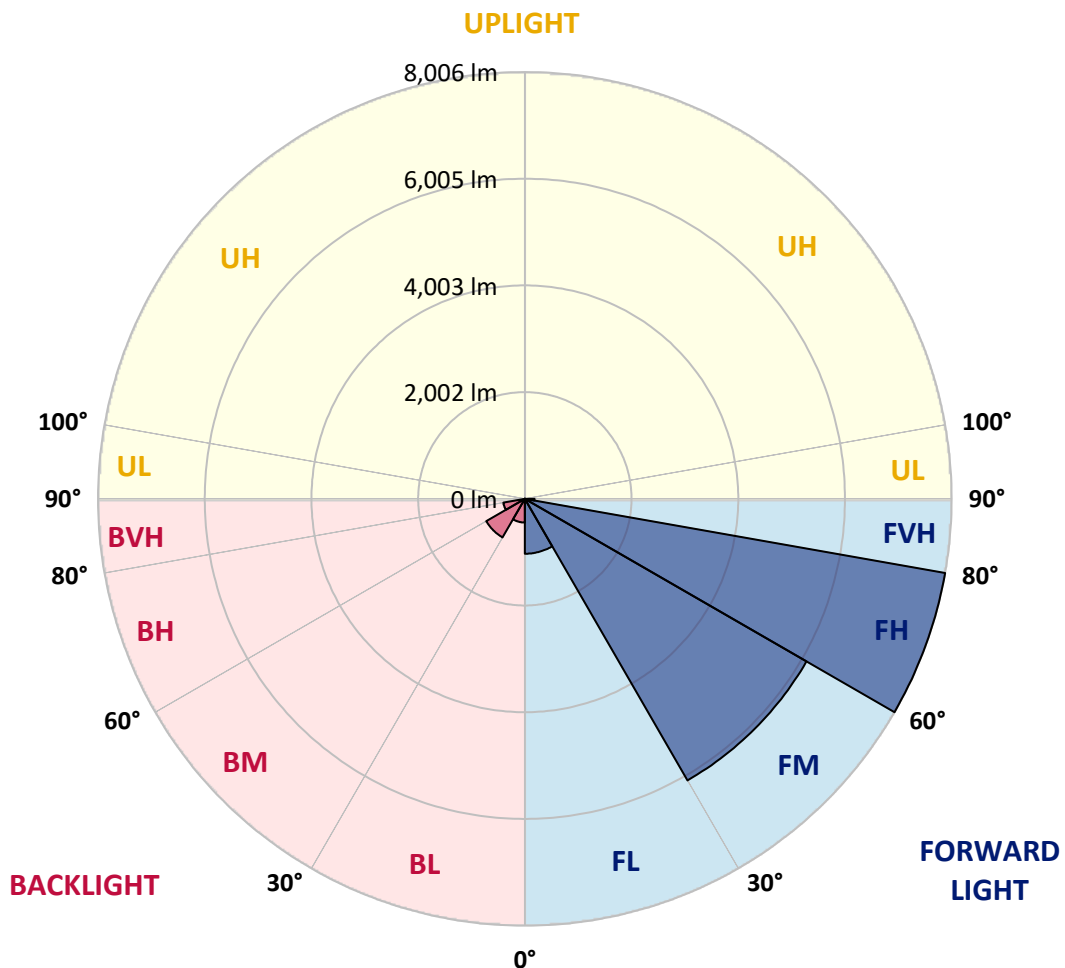


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1030.2	6.1			
FM (30°-60°)	6100.3	35.9			
FH (60°-80°)	8006.5	47.1			G4/12000
FVH (80°-90°)	181.9	1.1			G2/225
BL (0°-30°)	444.7	2.6	B1/500		
BM (30°-60°)	835.7	4.9	B1/1000		
BH (60°-80°)	409.9	2.4	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0
2.5°	1863.4	1851.2	1831.6	1824.3	1804.7	1794.9	1780.2	1772.8	1745.9	1719.0	1701.8
5°	2091.2	2061.8	2071.6	2042.2	1978.5	1927.1	1924.7	1868.3	1807.1	1758.2	1692.0
7.5°	2321.4	2296.9	2260.1	2218.5	2147.5	2071.6	2049.5	1995.7	1910.0	1824.3	1736.1
10°	2495.2	2478.1	2446.2	2387.5	2289.5	2203.8	2206.3	2115.7	2025.1	1927.1	1807.1
12.5°	2602.9	2610.3	2563.8	2505.0	2419.3	2311.6	2309.1	2247.9	2145.0	2042.2	1900.2
15°	2710.7	2737.6	2666.6	2598.1	2487.9	2409.5	2424.2	2350.7	2250.3	2132.8	1976.1
17.5°	2727.8	2735.2	2720.5	2620.1	2539.3	2473.2	2475.6	2426.6	2350.7	2223.4	2088.7
20°	2698.4	2693.5	2676.4	2602.9	2549.1	2509.9	2512.3	2500.1	2458.5	2355.6	2172.0
22.5°	2612.7	2612.7	2590.7	2541.7	2517.2	2554.0	2524.6	2571.1	2527.0	2465.8	2314.0
25°	2544.2	2571.1	2558.9	2527.0	2536.8	2585.8	2600.5	2644.6	2637.2	2561.3	2412.0
27.5°	2617.6	2585.8	2593.2	2556.4	2593.2	2666.6	2674.0	2705.8	2703.3	2642.1	2500.1
30°	2666.6	2696.0	2639.7	2558.9	2598.1	2722.9	2718.0	2759.7	2779.3	2705.8	2583.4
32.5°	2823.3	2798.8	2752.3	2644.6	2649.5	2720.5	2742.5	2796.4	2808.6	2764.6	2664.2
35°	3144.1	3107.4	2904.1	2742.5	2718.0	2752.3	2767.0	2872.3	2894.3	2845.4	2749.9
37.5°	3638.7	3555.5	3310.6	2953.1	2842.9	2835.6	2835.6	2975.1	3058.4	2945.8	2877.2
40°	4346.4	4228.9	3964.4	3342.5	3007.0	3036.4	3065.7	3141.7	3131.9	3058.4	3043.7
42.5°	5247.5	5156.9	4870.4	3996.2	3320.4	3173.5	3149.0	3251.8	3406.1	3376.7	3366.9
45°	5999.3	6004.2	5820.5	4892.5	3861.6	3489.4	3506.5	3584.9	3844.4	3822.4	3819.9
47.5°	6547.8	6479.2	6452.3	5756.9	4650.0	4089.3	4064.8	4118.7	4456.6	4596.2	4659.8
50°	7047.3	7000.8	6937.1	6596.7	5597.7	4841.0	4816.6	4821.5	5338.1	5534.0	5690.7
52.5°	7666.8	7725.6	7515.0	7306.9	6824.5	5818.1	5791.1	5695.6	6337.2	6606.5	6792.6
55°	8430.8	8320.6	8083.1	8190.8	7997.4	6873.4	6824.5	6711.8	7475.8	7588.5	7784.4
57.5°	8599.8	8516.5	8761.4	9143.4	9329.5	8112.5	8092.9	7889.7	8433.3	8330.4	8883.8
60°	9020.9	9043.0	9383.3	10142.4	10465.7	9542.5	9447.0	9089.5	9361.3	9380.9	9971.0
62.5°	9454.4	9402.9	10164.5	10894.2	11391.3	10896.6	10864.8	10154.7	10463.2	10213.5	10994.6
65°	9136.0	9214.4	10304.1	11525.9	12591.1	12221.4	12194.4	11180.7	11349.6	11038.7	11410.9
67.5°	8004.7	7845.6	9371.1	11237.0	13208.2	13609.8	13580.4	12299.7	11849.2	11033.8	10546.5
70°	5867.0	5729.9	6973.8	9515.6	12324.2	14319.9	14437.4	13078.4	11645.9	10005.3	8137.0
72.5°	2874.8	2877.2	3908.1	6452.3	9750.7	13051.5	13110.2	11991.2	10005.3	7375.4	4608.4
75°	849.7	859.5	1447.2	3163.7	6302.9	9912.3	9978.4	9101.7	6934.7	3810.1	1572.1
77.5°	311.0	311.0	479.9	1187.6	3144.1	6256.4	6251.5	5587.9	3511.4	1290.5	367.3
80°	161.6	169.0	249.8	484.8	1361.5	3259.2	3381.6	2735.2	1334.5	543.6	107.7
82.5°	66.1	73.5	137.1	249.8	653.8	1143.5	1251.3	1072.5	580.3	379.5	49.0
85°	19.6	22.0	66.1	139.6	257.1	286.5	318.3	360.0	364.9	293.8	22.0
87.5°	2.4	2.4	26.9	46.5	56.3	61.2	71.0	71.0	186.1	205.7	12.2
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°	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0	1670.0
2.5°	1682.2	1670.0	1650.4	1606.3	1596.5	1564.7	1562.3	1532.9	1542.7	1523.1	1515.7
5°	1670.0	1643.1	1589.2	1554.9	1520.6	1498.6	1483.9	1471.7	1469.2	1459.4	1454.5
7.5°	1692.0	1655.3	1572.1	1518.2	1459.4	1439.8	1408.0	1405.5	1388.4	1371.3	1371.3
10°	1765.5	1699.4	1608.8	1518.2	1442.3	1378.6	1305.1	1251.3	1231.7	1187.6	1192.5
12.5°	1824.3	1765.5	1633.3	1540.2	1425.1	1280.7	1119.0	994.2	935.4	879.1	901.1
15°	1907.5	1821.8	1679.8	1545.1	1359.0	1109.3	844.8	705.2	651.3	639.1	636.7
17.5°	1998.1	1907.5	1738.6	1532.9	1224.3	857.0	622.0	541.2	551.0	565.6	563.2
20°	2098.5	1988.3	1782.6	1491.2	1011.3	622.0	509.3	506.9	521.6	543.6	548.5
22.5°	2203.8	2108.3	1836.5	1366.4	754.2	499.5	489.7	489.7	499.5	526.5	521.6
25°	2321.4	2194.0	1863.4	1172.9	541.2	460.4	465.2	475.0	479.9	502.0	504.4
27.5°	2412.0	2289.5	1870.8	940.3	440.8	426.1	438.3	450.6	457.9	475.0	482.4
30°	2495.2	2409.5	1831.6	700.3	404.0	396.7	401.6	418.7	433.4	448.1	448.1
32.5°	2600.5	2478.1	1741.0	497.1	382.0	369.8	367.3	374.6	391.8	408.9	408.9
35°	2708.2	2593.2	1596.5	399.1	362.4	345.3	335.5	328.1	335.5	347.7	357.5
37.5°	2865.0	2767.0	1415.3	367.3	347.7	323.2	303.6	286.5	274.3	271.8	279.1
40°	3087.8	2962.9	1182.7	345.3	330.6	301.2	271.8	242.4	215.5	198.3	200.8
42.5°	3425.7	3251.8	930.5	333.0	318.3	276.7	235.1	193.4	159.2	142.0	142.0
45°	3908.1	3633.8	683.2	320.8	303.6	247.3	193.4	144.5	110.2	100.4	102.8
47.5°	4635.4	4094.2	489.7	301.2	284.0	215.5	151.8	102.8	80.8	75.9	78.4
50°	5585.4	4640.3	382.0	279.1	259.6	181.2	112.6	75.9	63.7	61.2	63.7
52.5°	6582.1	5191.2	335.5	259.6	222.8	144.5	83.3	61.2	53.9	51.4	53.9
55°	7434.2	5546.3	291.4	230.2	178.8	107.7	66.1	53.9	46.5	39.2	39.2
57.5°	8296.1	5725.0	230.2	191.0	132.2	80.8	56.3	46.5	39.2	31.8	29.4
60°	8996.5	5852.3	164.1	142.0	93.0	63.7	49.0	41.6	31.8	24.5	22.0
62.5°	9456.8	5487.5	120.0	107.7	68.6	53.9	41.6	34.3	24.5	17.1	17.1
65°	9229.1	4983.1	93.0	75.9	51.4	41.6	34.3	24.5	17.1	9.8	7.3
67.5°	8281.4	4059.9	75.9	56.3	39.2	31.8	26.9	19.6	9.8	2.4	2.4
70°	6178.0	2975.1	61.2	41.6	31.8	24.5	19.6	12.2	4.9	2.4	0.0
72.5°	3379.2	1628.4	49.0	34.3	24.5	19.6	14.7	9.8	4.9	0.0	0.0
75°	1116.6	433.4	36.7	24.5	14.7	12.2	9.8	7.3	2.4	0.0	0.0
77.5°	269.4	112.6	29.4	22.0	12.2	7.3	4.9	2.4	2.4	0.0	0.0
80°	83.3	46.5	22.0	14.7	9.8	7.3	2.4	0.0	0.0	0.0	0.0
82.5°	34.3	22.0	9.8	9.8	7.3	2.4	0.0	0.0	0.0	0.0	0.0
85°	17.1	12.2	7.3	4.9	4.9	2.4	0.0	0.0	0.0	0.0	0.0
87.5°	12.2	4.9	2.4	2.4	0.0	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
1121 Highway 74 South
Peachtree City, GA 30269



NVLAP Lab Code: 200050-0



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