

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P385815

Luminaire Tested: **GWC-SA1B-827-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P385815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1B-827-U-T4FT
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4514 lumens
Efficiency: N/A
Efficacy: 102.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

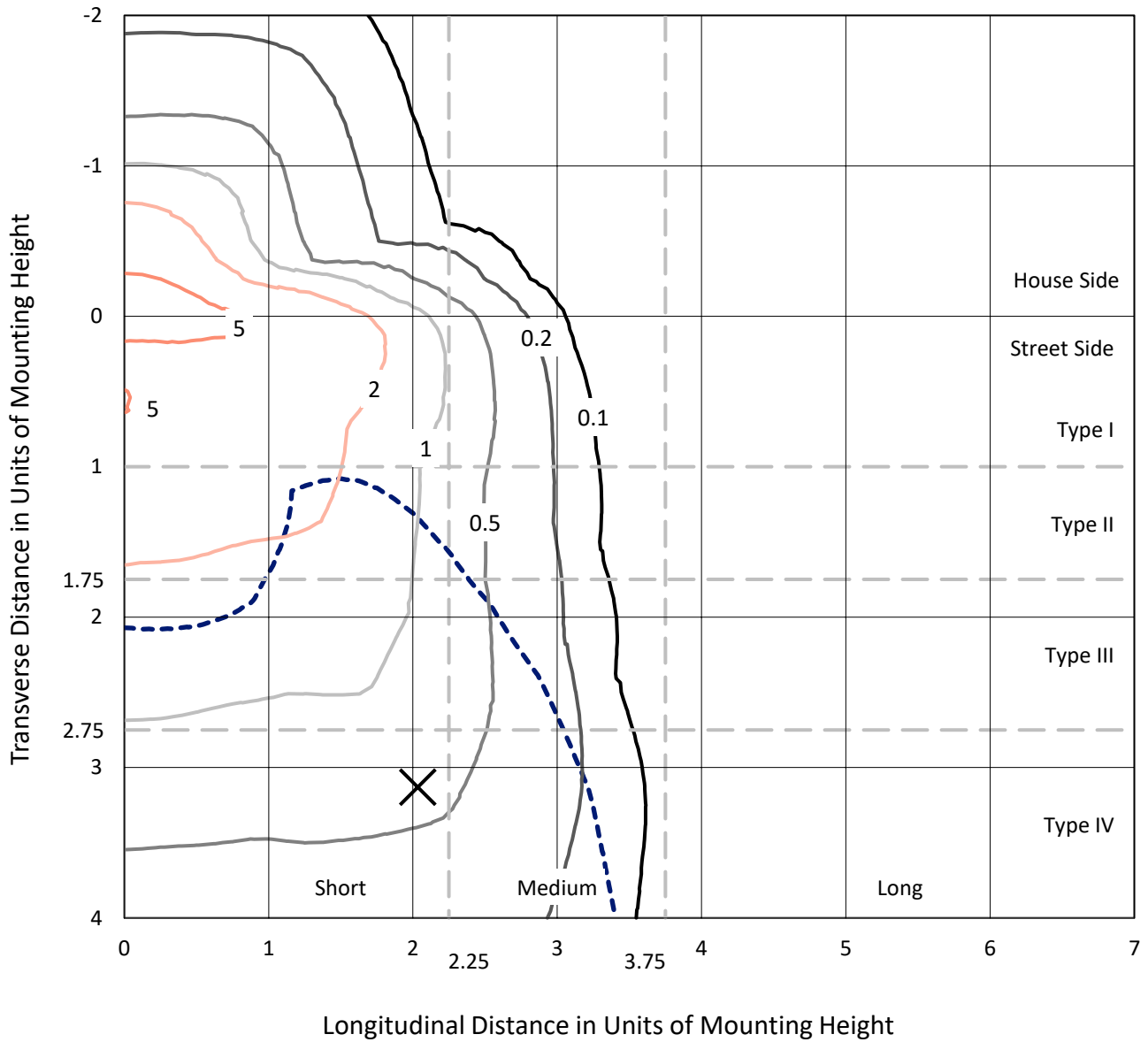
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

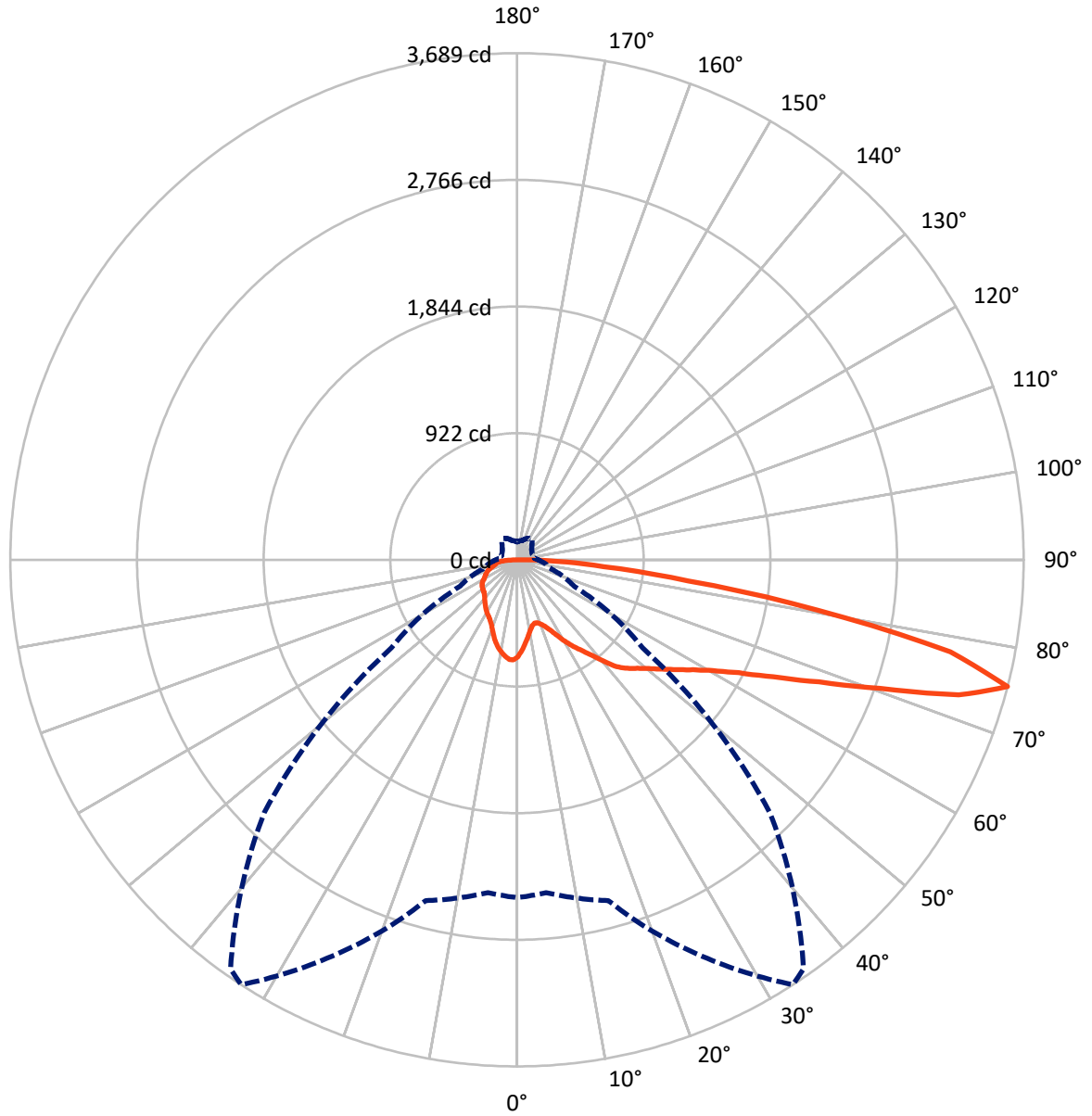
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical



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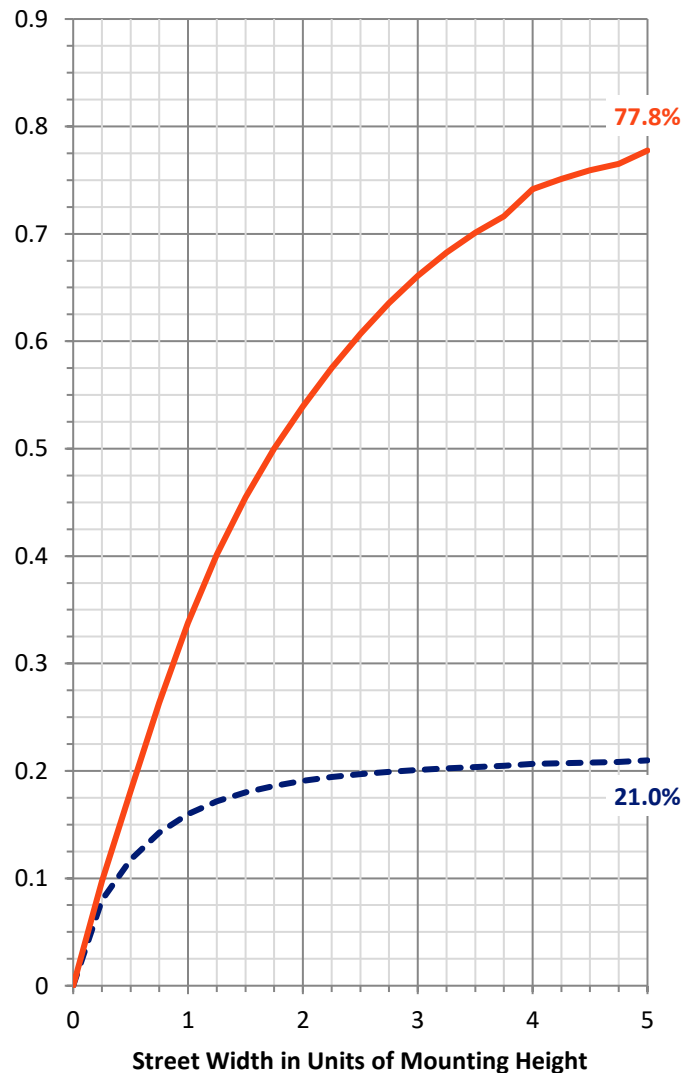
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	969.3	0.0	969.3
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3544.7	0.0	3544.7
	% Fixture	78.5	0.0	78.5
Total	Lumens	4514.0	0.0	4514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	1.4
10°-20°	172.8	3.8
20°-30°	282.2	6.3
30°-40°	420.3	9.3
40°-50°	602.9	13.4
50°-60°	827.6	18.3
60°-70°	1036.2	23.0
70°-80°	937.4	20.8
80°-90°	170.7	3.8
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°	4514.0	100.0
0°-180°	4514.0	100.0

Coefficient of Utilization



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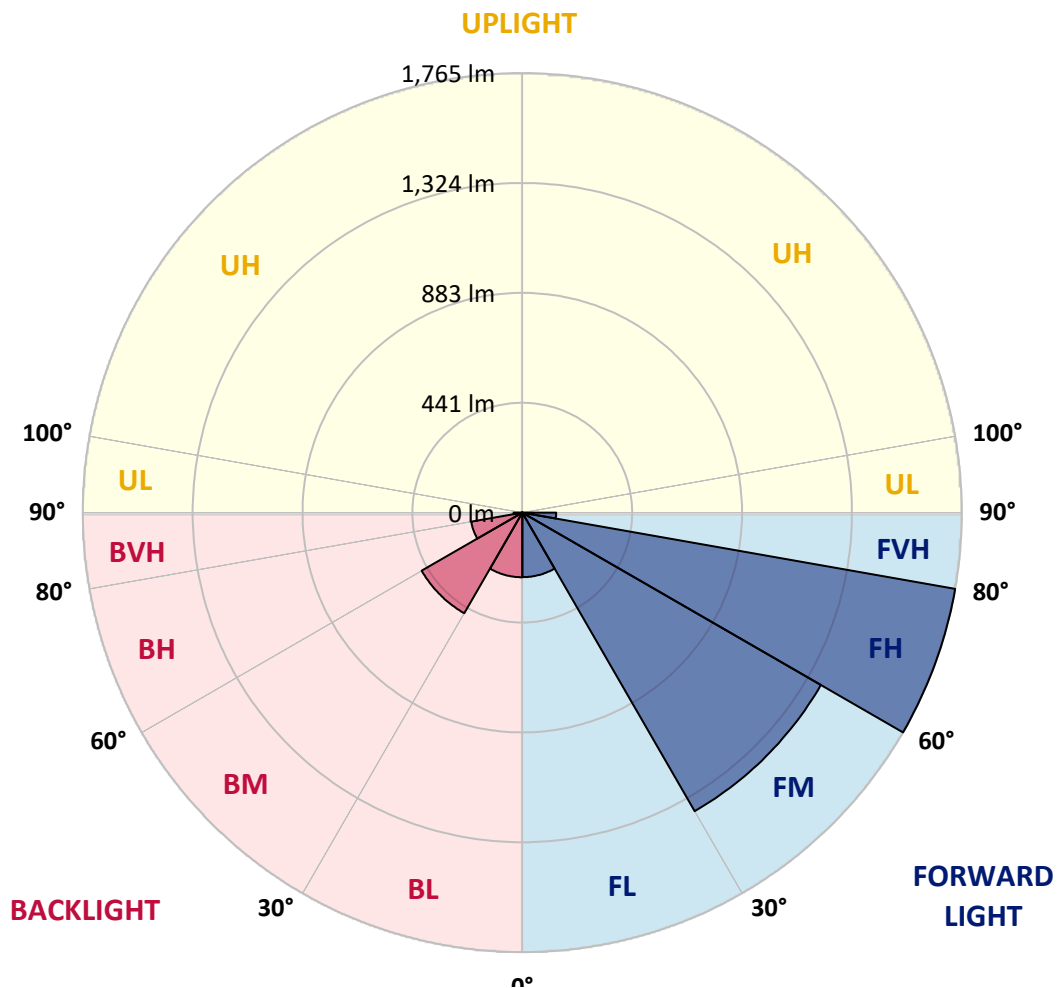
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.3	5.7			
FM (30°-60°)	1384.3	30.7			
FH (60°-80°)	1765.1	39.1			G1/1800
FVH (80°-90°)	136.0	3.0			G2/225
BL (0°-30°)	259.6	5.8	B1/500		
BM (30°-60°)	466.5	10.3	B1/1000		
BH (60°-80°)	208.4	4.6	B1/500		G1/500
BVH (80°-90°)	34.8	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6
2.5°	655.2	652.7	657.4	658.0	662.1	663.6	669.2	678.0	685.1	693.4	700.9
5°	595.8	594.1	600.6	605.3	614.2	617.9	631.2	649.7	666.3	685.0	702.0
7.5°	539.3	538.4	545.7	556.3	566.6	571.8	594.7	621.7	649.3	679.5	705.6
10°	491.8	491.5	498.5	508.9	524.1	529.8	559.5	595.0	633.7	675.3	711.6
12.5°	465.1	466.2	469.5	478.2	492.3	498.0	530.9	572.7	620.6	673.9	720.5
15°	471.7	473.4	467.8	467.5	477.4	482.0	512.8	556.8	611.2	676.2	733.5
17.5°	499.6	499.9	485.1	475.7	481.8	484.1	507.2	547.8	605.8	681.6	749.7
20°	538.9	538.1	511.9	496.3	499.6	500.2	515.2	547.9	605.3	690.8	770.7
22.5°	591.0	585.2	549.9	528.7	528.0	527.0	535.6	559.5	612.2	705.7	795.8
25°	658.9	653.5	605.0	576.0	569.8	567.4	568.7	584.1	625.7	721.8	823.9
27.5°	734.6	725.1	678.3	637.3	624.3	621.1	613.6	618.9	640.5	737.2	857.3
30°	797.9	792.7	751.9	703.2	687.9	683.3	663.6	657.9	661.9	758.3	899.4
32.5°	833.3	829.8	805.0	765.8	751.6	745.0	717.3	705.7	696.2	791.5	956.4
35°	876.1	874.0	859.0	830.5	809.4	802.5	781.0	769.0	744.5	837.2	1030.2
37.5°	930.7	928.4	928.7	905.6	880.5	874.1	859.9	847.3	807.2	897.2	1110.3
40°	992.5	987.9	986.2	985.1	969.2	965.6	958.2	941.0	885.8	968.9	1189.4
42.5°	1085.4	1069.3	1035.0	1048.0	1063.7	1061.9	1067.9	1043.3	973.1	1053.7	1266.6
45°	1175.1	1148.7	1089.5	1092.3	1126.7	1137.2	1182.7	1165.2	1067.8	1146.7	1346.4
47.5°	1215.9	1195.9	1145.6	1145.7	1179.9	1201.6	1301.4	1288.9	1167.3	1252.2	1443.9
50°	1261.6	1241.6	1196.4	1213.4	1243.2	1266.3	1416.0	1409.6	1261.9	1367.8	1560.7
52.5°	1311.5	1277.7	1249.0	1279.4	1321.2	1348.0	1530.7	1513.3	1348.8	1484.1	1694.9
55°	1312.1	1302.9	1324.7	1347.0	1409.6	1442.5	1650.9	1604.8	1419.5	1598.4	1804.2
57.5°	1386.8	1371.8	1418.1	1428.4	1510.1	1547.3	1770.5	1684.5	1491.6	1686.0	1863.2
60°	1485.7	1472.9	1510.8	1537.9	1634.6	1684.2	1898.2	1766.3	1548.2	1752.1	1860.3
62.5°	1656.4	1641.9	1641.4	1679.5	1809.7	1867.4	2041.5	1846.6	1570.6	1765.2	1781.0
65°	1906.3	1883.3	1839.8	1857.9	2051.5	2109.1	2201.7	1904.8	1541.0	1695.1	1576.6
67.5°	2149.6	2148.8	2095.3	2132.4	2370.8	2417.0	2384.1	1910.6	1448.5	1450.7	1213.9
70°	2392.1	2395.2	2386.1	2515.2	2802.3	2850.3	2578.4	1833.1	1240.7	1047.7	727.2
72.5°	2584.2	2583.4	2628.9	2961.8	3362.2	3351.5	2742.1	1598.2	890.8	565.5	347.6
75°	2459.7	2432.6	2568.3	3182.9	3688.6	3636.0	2602.9	1114.9	462.3	257.4	187.1
77.5°	1604.3	1630.0	1829.2	2629.4	3226.4	3162.5	1909.6	520.2	217.8	168.9	135.7
80°	581.0	608.1	856.5	1489.4	2222.9	2212.4	940.4	213.8	147.3	127.5	98.9
82.5°	199.9	209.9	337.9	661.4	1255.0	1301.8	353.8	121.5	107.1	90.4	67.7
85°	78.4	89.8	154.5	318.2	633.1	637.7	143.3	72.7	74.5	59.3	37.1
87.5°	29.8	36.2	73.9	147.8	289.1	265.5	51.3	34.6	42.4	35.2	17.6
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°	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6	705.6
2.5°	706.7	709.9	716.8	721.5	726.5	727.9	728.5	729.7	731.0	730.5	730.7
5°	711.0	717.4	728.5	733.2	735.3	732.9	728.0	724.1	721.3	719.8	719.3
7.5°	718.2	727.2	739.1	738.3	733.3	722.2	709.8	700.4	692.6	689.8	688.3
10°	727.7	738.3	746.6	737.7	723.2	704.0	685.3	670.8	659.1	654.6	653.8
12.5°	739.9	750.6	752.2	733.3	709.3	683.1	657.7	638.5	621.1	615.4	614.2
15°	755.6	765.8	756.1	725.7	692.2	656.9	624.0	598.0	579.6	572.7	570.2
17.5°	772.1	781.8	756.9	713.0	669.7	625.9	584.6	557.9	536.9	528.9	528.0
20°	791.9	796.3	753.6	695.0	638.8	585.7	542.2	517.0	505.8	500.2	499.6
22.5°	816.4	811.7	746.1	670.5	599.7	539.2	503.8	492.1	489.3	488.0	488.5
25°	842.3	828.0	735.0	638.5	550.3	492.7	475.7	479.0	482.7	482.3	482.3
27.5°	870.8	844.5	718.0	596.1	495.5	454.7	456.7	468.7	474.3	474.2	474.0
30°	907.5	863.2	696.4	545.1	444.4	427.9	440.2	454.8	462.5	462.2	462.3
32.5°	952.5	883.8	666.9	488.2	407.4	408.1	422.2	436.7	445.6	444.9	445.0
35°	1005.3	906.9	627.0	432.1	383.0	392.3	403.5	413.7	422.1	421.0	419.9
37.5°	1062.6	929.5	574.0	381.9	363.0	377.7	387.0	388.7	392.6	389.8	387.8
40°	1117.2	946.8	505.7	340.7	342.9	365.2	371.3	364.4	357.4	356.4	353.6
42.5°	1164.8	952.5	436.6	307.8	321.7	352.1	355.8	341.5	328.8	322.9	320.4
45°	1215.0	954.6	372.2	280.2	301.2	340.4	344.4	325.3	307.5	294.7	290.5
47.5°	1280.6	969.2	322.1	259.8	285.7	332.6	338.4	312.3	289.2	271.0	267.1
50°	1366.5	998.2	281.4	244.2	275.5	327.4	334.0	299.7	274.3	252.3	248.4
52.5°	1462.0	1024.9	248.5	231.5	265.7	318.4	328.4	290.6	260.2	235.0	230.8
55°	1528.7	1004.5	222.0	218.5	252.9	305.5	320.6	283.0	240.1	218.1	214.4
57.5°	1541.5	934.6	201.9	204.9	237.5	289.2	308.6	266.0	229.2	210.8	206.9
60°	1506.6	837.3	187.0	192.4	220.9	268.8	286.1	254.0	218.8	203.0	199.7
62.5°	1418.8	737.7	175.9	181.2	205.5	248.1	272.1	241.4	208.2	194.1	190.9
65°	1241.5	619.3	165.3	171.2	191.2	230.1	259.5	229.7	197.7	187.0	183.8
67.5°	937.1	463.9	155.3	160.6	178.4	214.6	245.7	218.1	187.6	180.7	177.0
70°	551.8	290.5	143.9	149.5	165.0	198.3	231.1	205.5	174.9	171.8	167.0
72.5°	256.8	174.8	131.0	136.4	148.1	176.7	212.2	189.0	160.0	153.1	146.6
75°	153.3	127.9	115.7	120.5	128.8	153.6	188.5	172.1	145.8	136.7	129.9
77.5°	114.6	97.8	98.9	104.0	110.7	134.4	167.0	158.9	134.9	127.9	123.2
80°	82.5	74.2	80.6	86.2	93.2	122.2	160.0	146.9	121.9	112.6	108.2
82.5°	55.0	53.3	60.7	66.4	73.3	107.0	150.3	128.6	104.2	92.3	82.6
85°	30.4	32.1	40.9	43.3	49.3	75.3	123.2	103.4	78.4	63.1	60.3
87.5°	12.6	14.8	22.0	21.2	26.2	44.9	81.1	62.4	49.9	37.3	29.0
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

Scaled Data Report



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