

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: P386255

Luminaire Tested: **GWC-SA1D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386255
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA1D-827-U-T2
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5977 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

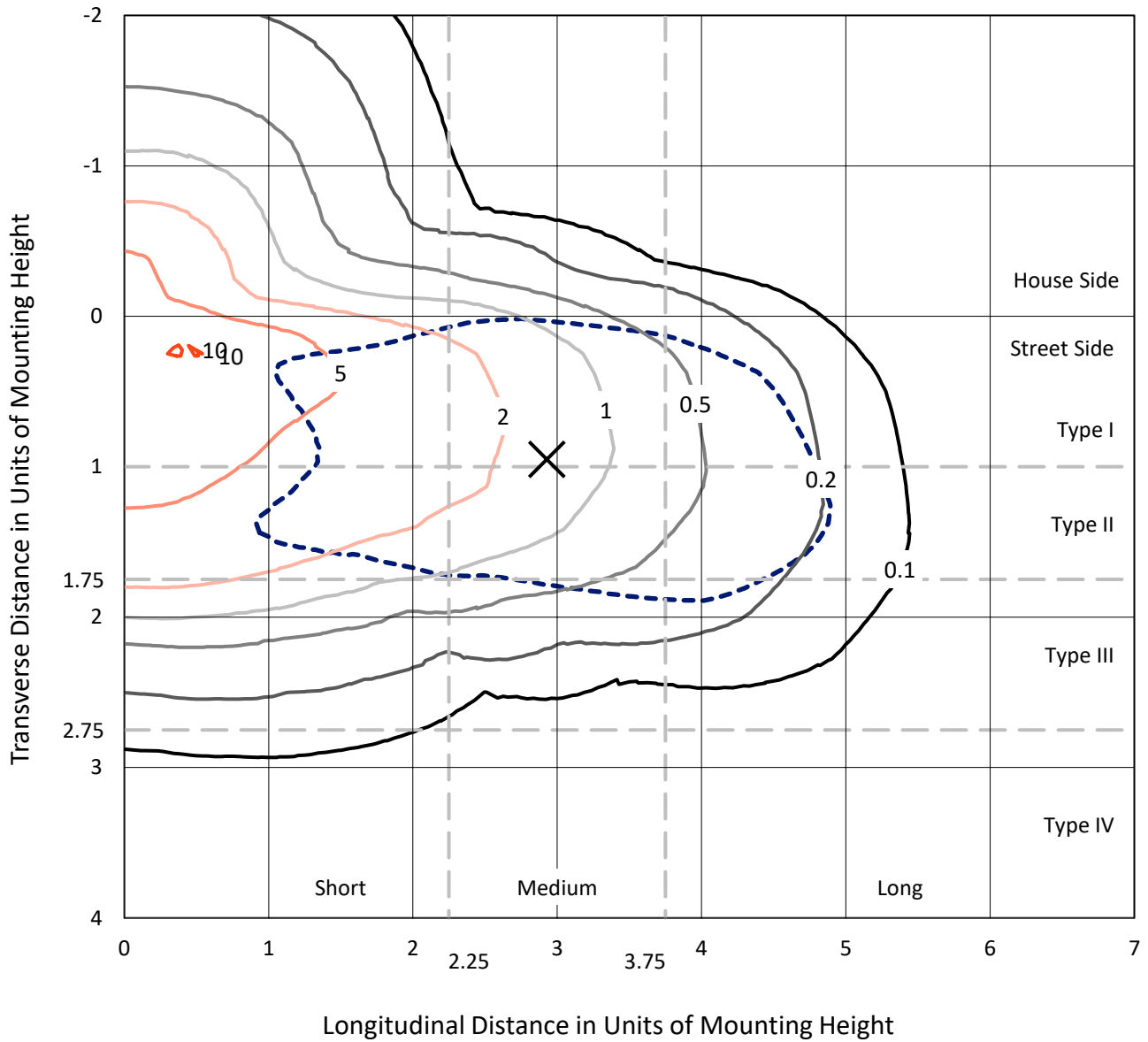
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P386255
 CATALOG NUMBER: GWC-SA1D-827-U-T2

Iso-Footcandle Lines of Horizontal Illumination

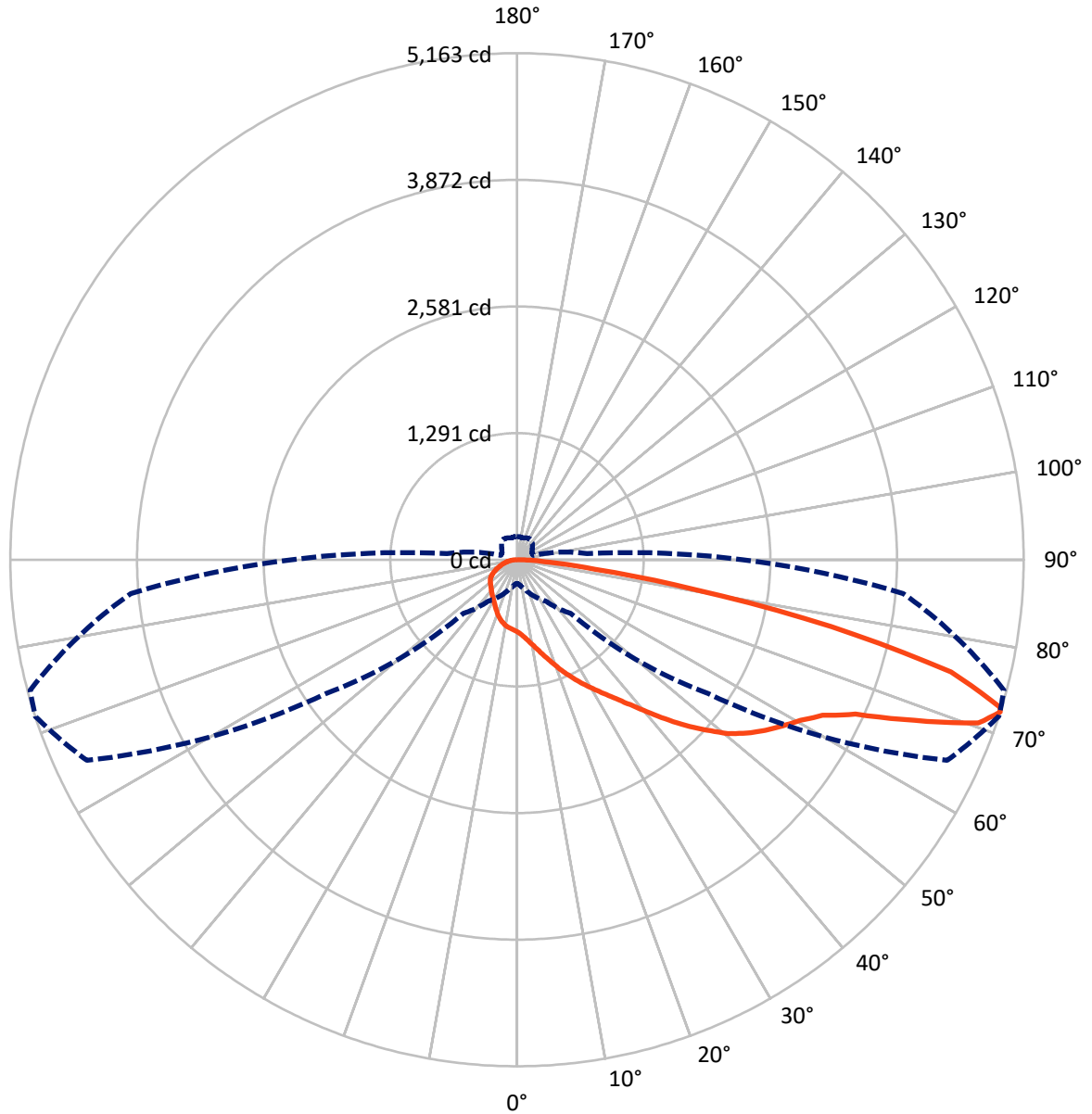
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Medium - N/A

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CATALOG NUMBER: GWC-SA1D-827-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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CATALOG NUMBER: GWC-SA1D-827-U-T2

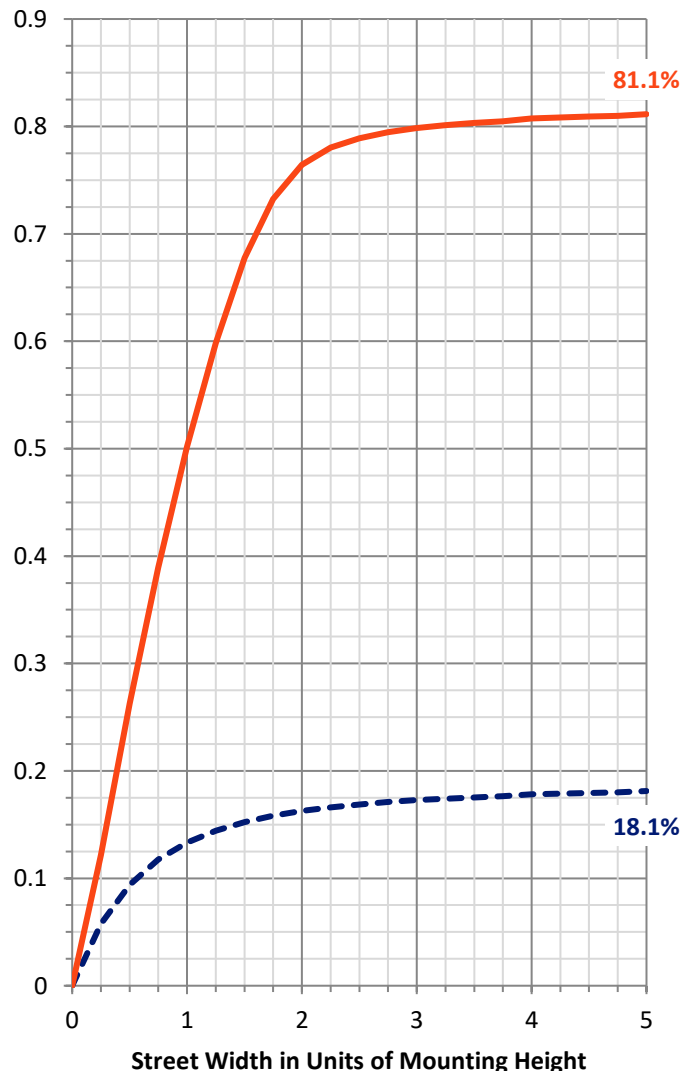
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1108.8	0.0	1108.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	4868.2	0.0	4868.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	5977.0	0.0	5977.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	1.2
10°-20°	238.1	4.0
20°-30°	417.2	7.0
30°-40°	618.6	10.4
40°-50°	904.8	15.1
50°-60°	1245.0	20.8
60°-70°	1386.0	23.2
70°-80°	939.2	15.7
80°-90°	154.4	2.6
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°	5977.0	100.0
0°-180°	5977.0	100.0



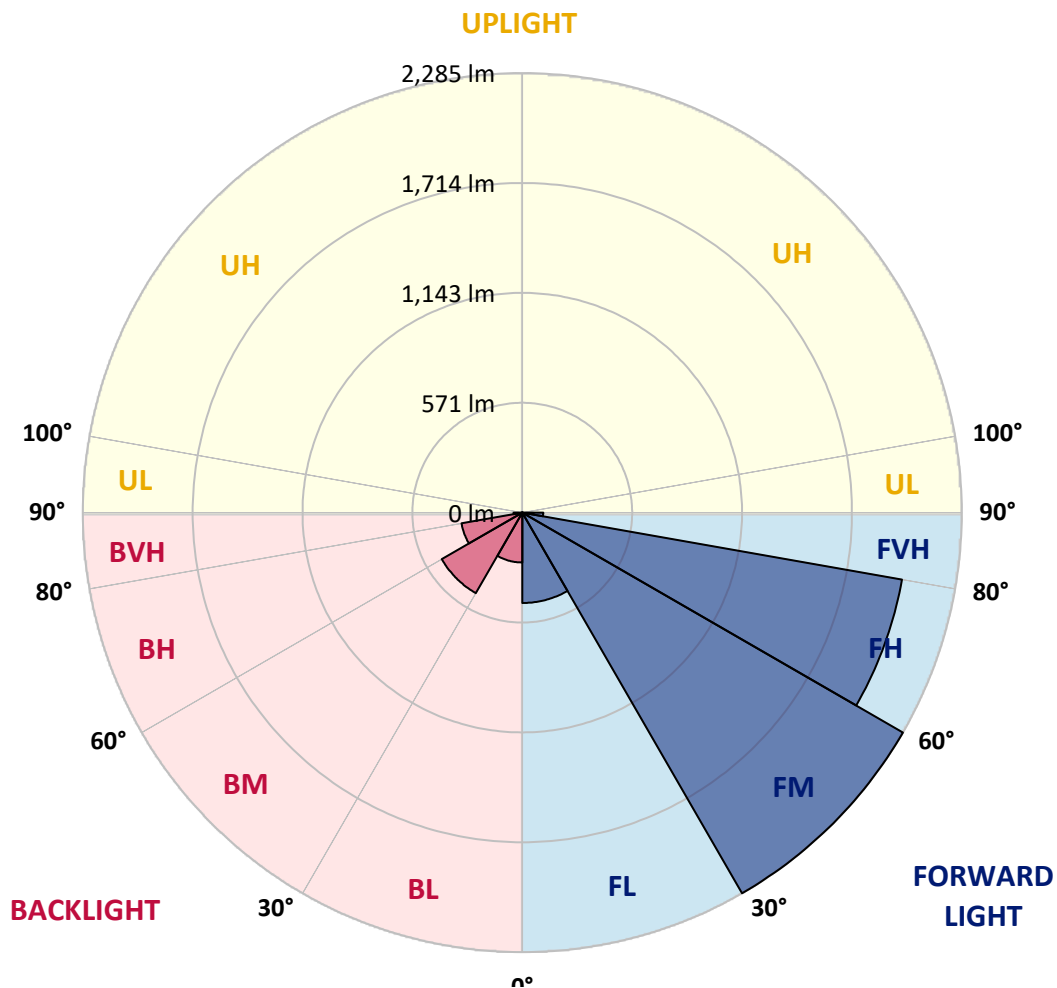
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CATALOG NUMBER: GWC-SA1D-827-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	469.8	7.9			
FM (30°-60°)	2285.1	38.2			
FH (60°-80°)	2004.4	33.5			G2/5000
FVH (80°-90°)	108.9	1.8			G2/225
BL (0°-30°)	259.2	4.3	B1/500		
BM (30°-60°)	483.3	8.1	B1/1000		
BH (60°-80°)	320.8	5.4	B1/500		G1/500
BVH (80°-90°)	45.5	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
2.5°	812.3	811.1	806.7	806.7	798.5	791.5	778.3	769.5	759.0	755.3	742.9
5°	890.9	891.3	886.0	882.3	870.1	855.3	832.9	812.5	792.1	783.9	758.6
7.5°	957.0	956.2	954.7	951.6	940.3	925.1	894.8	864.6	834.5	822.2	778.5
10°	999.4	1001.2	1002.5	1003.9	999.2	988.3	959.7	922.8	883.5	866.6	802.4
12.5°	1020.8	1024.1	1029.8	1039.7	1047.5	1046.3	1025.5	986.4	939.7	918.5	832.3
15°	1033.3	1037.6	1046.7	1064.4	1086.4	1099.0	1093.4	1058.0	1006.0	979.8	868.7
17.5°	1041.1	1044.6	1058.6	1082.3	1115.0	1148.4	1163.0	1133.3	1080.9	1051.0	910.5
20°	1046.5	1049.2	1066.7	1094.4	1136.8	1189.9	1230.7	1223.3	1163.4	1124.7	954.1
22.5°	1058.4	1060.7	1077.4	1105.4	1152.3	1220.8	1295.9	1307.0	1250.4	1206.6	1000.8
25°	1091.8	1091.8	1105.8	1125.3	1169.4	1247.6	1351.1	1400.3	1339.4	1288.3	1044.0
27.5°	1155.4	1154.7	1159.9	1166.7	1200.0	1274.7	1400.3	1482.6	1431.6	1375.8	1086.0
30°	1230.7	1234.8	1235.4	1232.1	1247.8	1308.7	1445.8	1569.4	1524.4	1464.3	1129.0
32.5°	1327.6	1330.3	1327.2	1316.3	1314.0	1356.8	1490.4	1660.4	1624.8	1556.7	1168.3
35°	1450.7	1445.5	1435.9	1413.6	1392.4	1421.3	1541.4	1751.4	1737.6	1668.4	1222.5
37.5°	1582.6	1582.8	1570.9	1520.5	1491.2	1503.6	1611.8	1854.5	1874.0	1801.4	1291.8
40°	1688.4	1693.9	1701.4	1635.1	1597.2	1614.3	1701.4	1974.0	2035.4	1959.0	1382.2
42.5°	1762.3	1768.7	1789.6	1748.1	1708.8	1740.5	1806.7	2101.6	2216.5	2140.9	1487.9
45°	1840.5	1844.0	1858.8	1840.9	1815.8	1887.2	1925.5	2233.8	2408.1	2334.8	1606.3
47.5°	1922.8	1926.5	1941.7	1929.8	1916.6	2024.3	2049.4	2358.3	2591.7	2547.8	1732.6
50°	2024.5	2026.9	2041.3	2019.7	2023.8	2127.6	2160.1	2472.5	2784.1	2739.2	1859.4
52.5°	2163.2	2163.8	2183.8	2164.2	2144.9	2203.3	2255.4	2580.1	2934.9	2913.7	1986.2
55°	2271.8	2278.4	2343.9	2339.8	2328.6	2272.0	2335.0	2682.6	3069.5	3079.6	2120.8
57.5°	2202.5	2228.2	2360.7	2454.2	2545.1	2443.1	2442.7	2798.1	3194.6	3242.4	2268.8
60°	1929.0	1964.0	2159.3	2366.5	2651.1	2740.7	2666.2	2939.0	3321.0	3403.7	2454.2
62.5°	1377.6	1435.3	1699.9	2030.8	2505.8	2937.8	3121.0	3162.7	3492.9	3590.6	2695.2
65°	696.4	740.1	961.9	1360.6	2002.0	2809.0	3615.3	3652.6	3791.5	3878.3	3066.2
67.5°	423.1	439.6	547.8	756.7	1227.4	2188.1	3776.7	4469.0	4369.4	4415.5	3595.3
70°	311.8	323.9	391.4	502.6	705.9	1284.0	3281.5	5051.6	4986.1	4981.0	3986.4
72°	242.8	251.7	311.4	406.0	516.1	770.3	2378.4	4836.5	5162.7	5136.8	3950.6
72.5°	230.3	238.1	292.4	382.2	487.7	698.3	2138.5	4691.4	5150.0	5138.2	3904.3
75°	181.3	186.9	216.5	295.5	381.8	396.2	1171.8	3635.7	4568.6	4758.5	3511.6
77.5°	150.0	150.9	166.5	215.1	297.6	280.1	575.6	2522.5	3271.4	3480.3	2487.5
80°	122.2	123.3	130.7	150.9	225.1	207.2	273.3	1450.5	1831.6	1833.9	1182.9
82.5°	97.3	97.5	105.8	110.3	161.8	148.2	156.6	681.0	800.4	769.9	425.2
85°	68.5	67.1	103.3	90.6	105.8	95.1	86.4	269.6	330.9	316.5	133.2
87.5°	22.8	23.7	45.9	58.7	61.7	53.9	38.5	103.3	124.9	123.9	42.2
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°	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3	735.3
2.5°	739.0	732.4	722.8	712.1	703.6	695.0	688.6	685.3	681.6	678.5	682.2
5°	746.9	734.5	713.9	693.8	678.9	665.8	656.3	651.4	646.8	643.7	644.2
7.5°	759.6	739.6	705.1	675.6	655.1	640.9	631.2	627.9	625.0	624.2	625.2
10°	773.2	743.8	693.3	654.2	630.8	619.0	614.7	617.0	619.0	620.9	623.0
12.5°	788.6	747.5	676.3	629.1	609.2	604.6	609.0	618.8	626.0	630.4	633.0
15°	808.8	750.8	656.5	604.0	590.6	595.8	610.4	627.5	640.0	648.1	649.3
17.5°	827.3	750.6	631.2	578.7	575.6	590.6	612.7	636.7	653.6	664.9	667.2
20°	846.5	745.0	601.8	554.0	560.4	585.1	613.7	642.7	663.1	676.3	679.3
22.5°	864.4	735.3	569.5	531.6	547.6	577.7	609.8	639.2	659.6	670.3	673.6
25°	876.5	718.5	536.7	512.7	536.3	568.6	597.0	620.7	635.9	641.3	642.1
27.5°	882.7	696.4	505.9	496.2	524.6	553.8	573.4	585.1	589.4	589.0	588.2
30°	883.5	667.4	479.3	482.8	511.0	532.0	541.3	539.0	533.4	524.0	524.8
32.5°	880.8	634.7	457.1	470.0	493.7	505.4	505.9	495.0	480.1	465.1	461.0
35°	881.7	602.6	437.5	455.6	472.7	477.9	473.1	457.1	436.9	417.6	413.5
37.5°	890.7	574.6	420.7	439.0	449.5	450.7	443.9	427.0	412.2	393.3	391.6
40°	912.3	554.6	404.6	420.2	426.2	426.8	417.2	405.2	406.5	396.4	396.2
42.5°	951.2	546.0	390.4	400.7	404.4	405.6	398.2	390.6	401.3	394.7	392.5
45°	1001.4	548.0	378.5	381.6	388.3	394.1	389.6	380.3	384.4	355.8	346.4
47.5°	1059.5	561.2	369.0	365.1	376.8	387.7	380.7	366.7	352.1	323.7	318.4
50°	1127.4	581.6	360.4	348.8	364.3	379.1	372.1	352.1	330.1	316.3	314.5
52.5°	1198.2	606.5	351.7	330.9	348.4	372.5	369.0	348.8	321.7	308.1	305.6
55°	1278.4	631.6	340.8	310.1	331.3	369.4	367.6	336.9	315.3	307.7	305.8
57.5°	1378.2	660.2	326.4	288.5	315.3	358.3	352.5	329.7	308.7	302.9	302.3
60°	1508.3	702.4	305.6	265.5	295.7	341.2	340.0	319.2	298.2	294.1	293.3
62.5°	1703.4	772.2	277.0	242.4	273.9	312.2	323.5	305.0	287.1	286.9	287.3
65°	2005.9	877.1	245.9	222.3	251.9	287.7	304.4	290.4	275.8	279.9	280.5
67.5°	2356.6	964.2	215.5	202.5	229.5	264.5	287.1	275.8	260.7	271.5	271.7
70°	2473.3	886.4	188.7	183.0	206.2	242.0	268.4	259.7	244.5	255.2	254.2
72°	2301.7	715.6	171.4	168.1	188.7	223.5	251.7	244.7	229.7	236.9	234.2
72.5°	2247.6	682.2	167.1	164.4	184.0	218.8	247.4	241.0	226.0	232.1	229.7
75°	2004.9	592.5	143.6	144.3	160.5	195.7	223.1	221.0	205.6	206.2	205.4
77.5°	1454.2	434.4	121.0	125.1	136.7	172.0	198.6	197.4	180.5	177.4	176.8
80°	674.8	221.6	98.6	100.4	112.4	143.9	169.4	167.7	154.1	150.2	148.0
82.5°	231.1	105.4	74.1	75.3	87.1	115.9	146.9	145.9	134.6	127.0	122.2
85°	82.5	52.5	51.9	50.6	62.2	91.2	128.0	122.5	105.8	90.1	89.7
87.5°	26.8	22.4	26.8	26.5	36.2	61.7	93.0	79.2	76.8	63.8	62.6
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



Report Generated By 670245982

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