

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: P386692

Luminaire Tested: **GWC-SA2B-827-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P386692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-SA2B-827-U-SL2-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7262 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

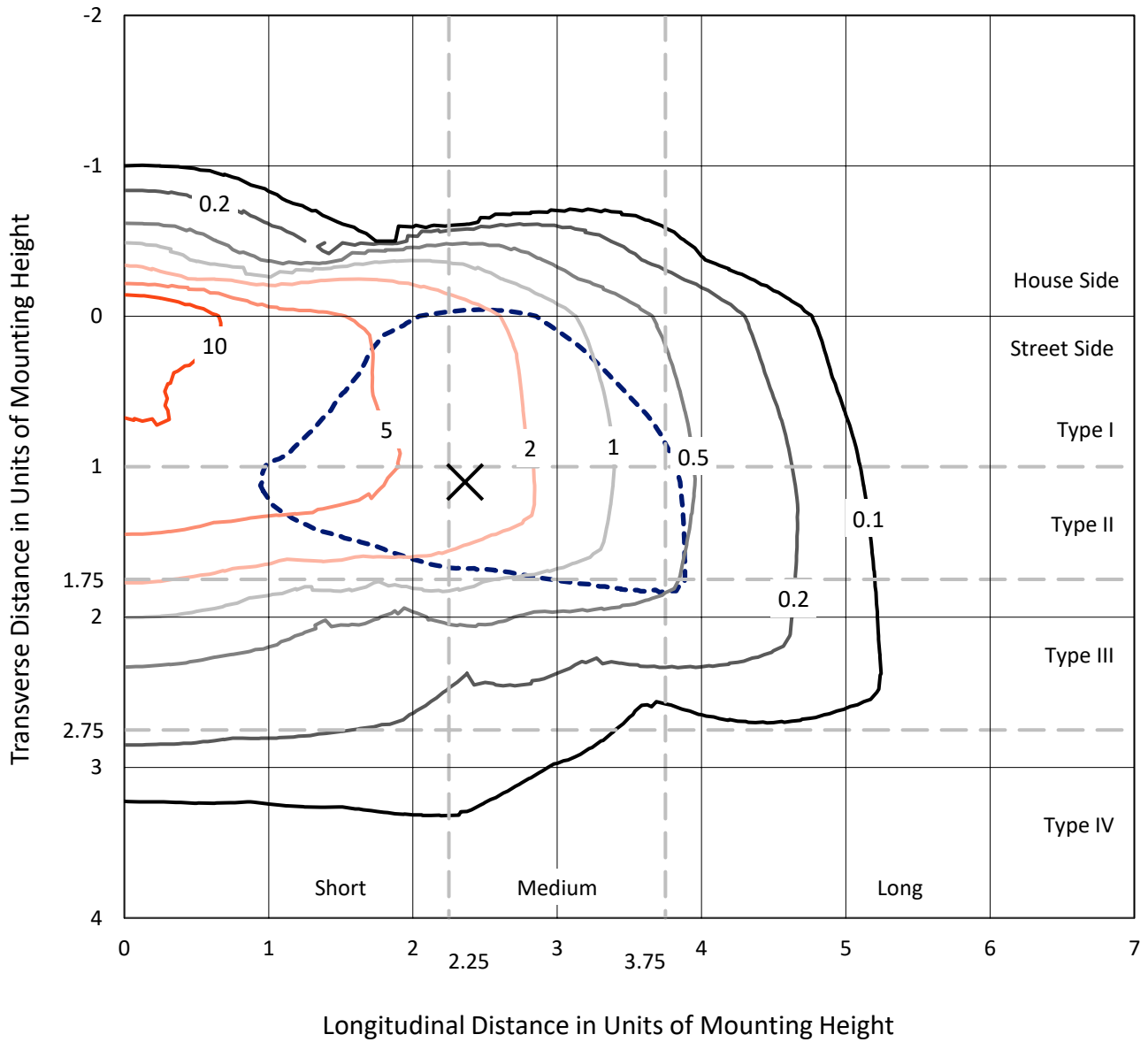
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

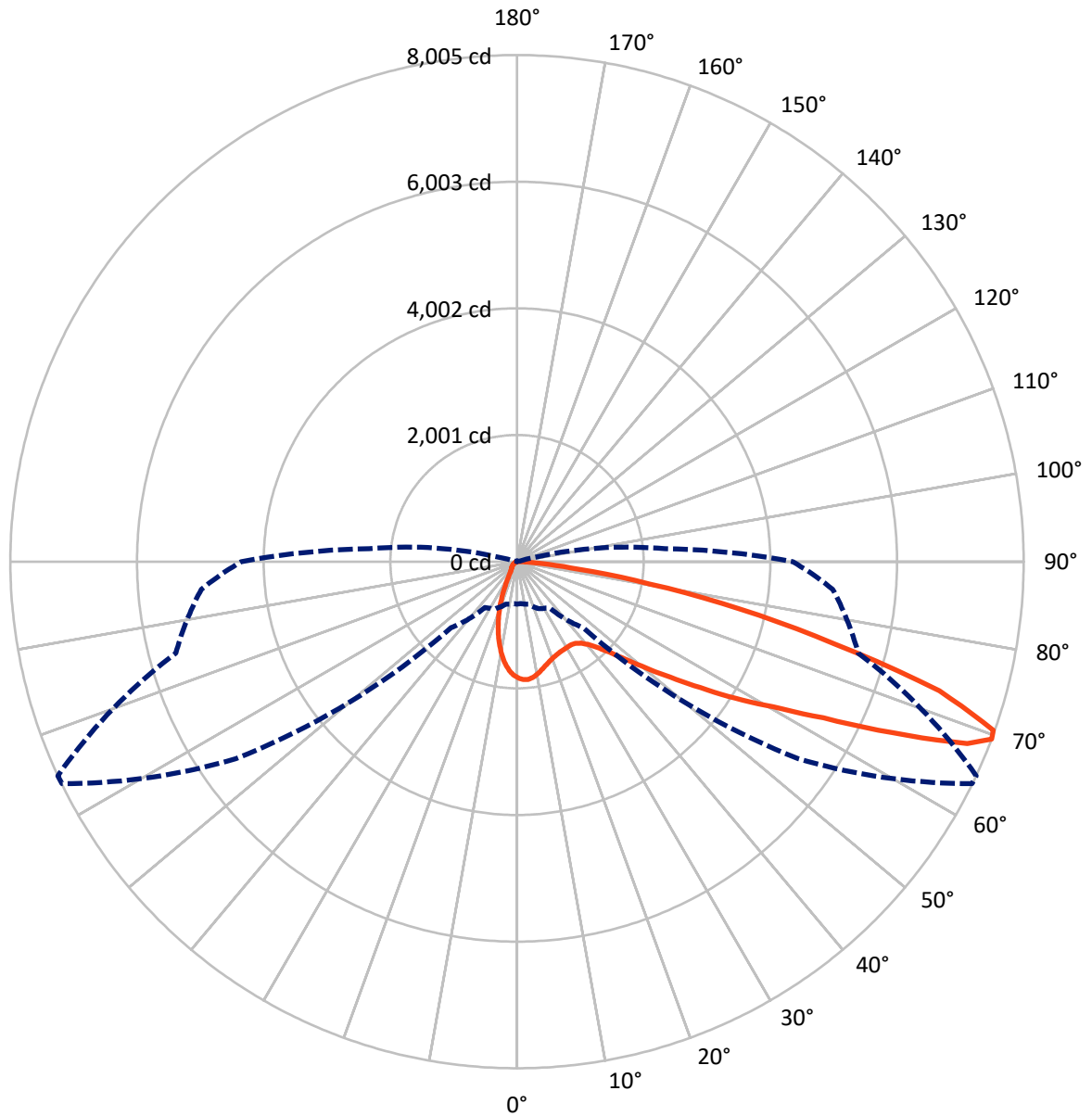
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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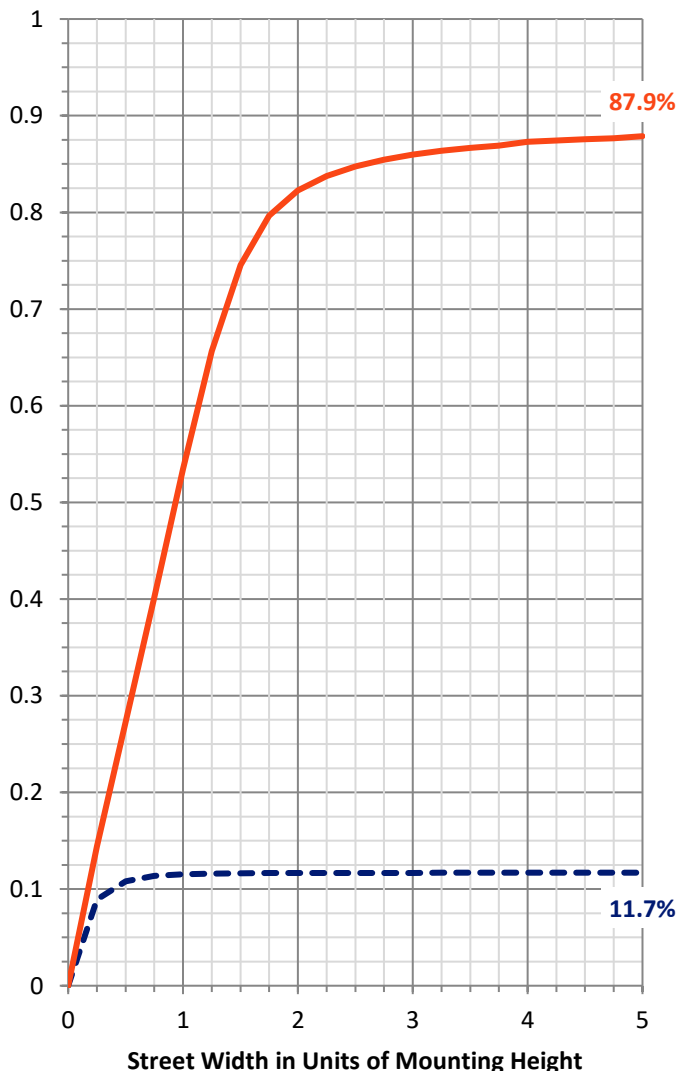
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	856.0	0.0	856.0
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6406.0	0.0	6406.0
	% Fixture	88.2	0.0	88.2
Total	Lumens	7262.0	0.0	7262.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	2.1
10°-20°	335.9	4.6
20°-30°	465.3	6.4
30°-40°	648.7	8.9
40°-50°	1008.3	13.9
50°-60°	1618.7	22.3
60°-70°	1831.1	25.2
70°-80°	1075.4	14.8
80°-90°	125.1	1.7
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°	7262.0	100.0
0°-180°	7262.0	100.0

Coefficient of Utilization



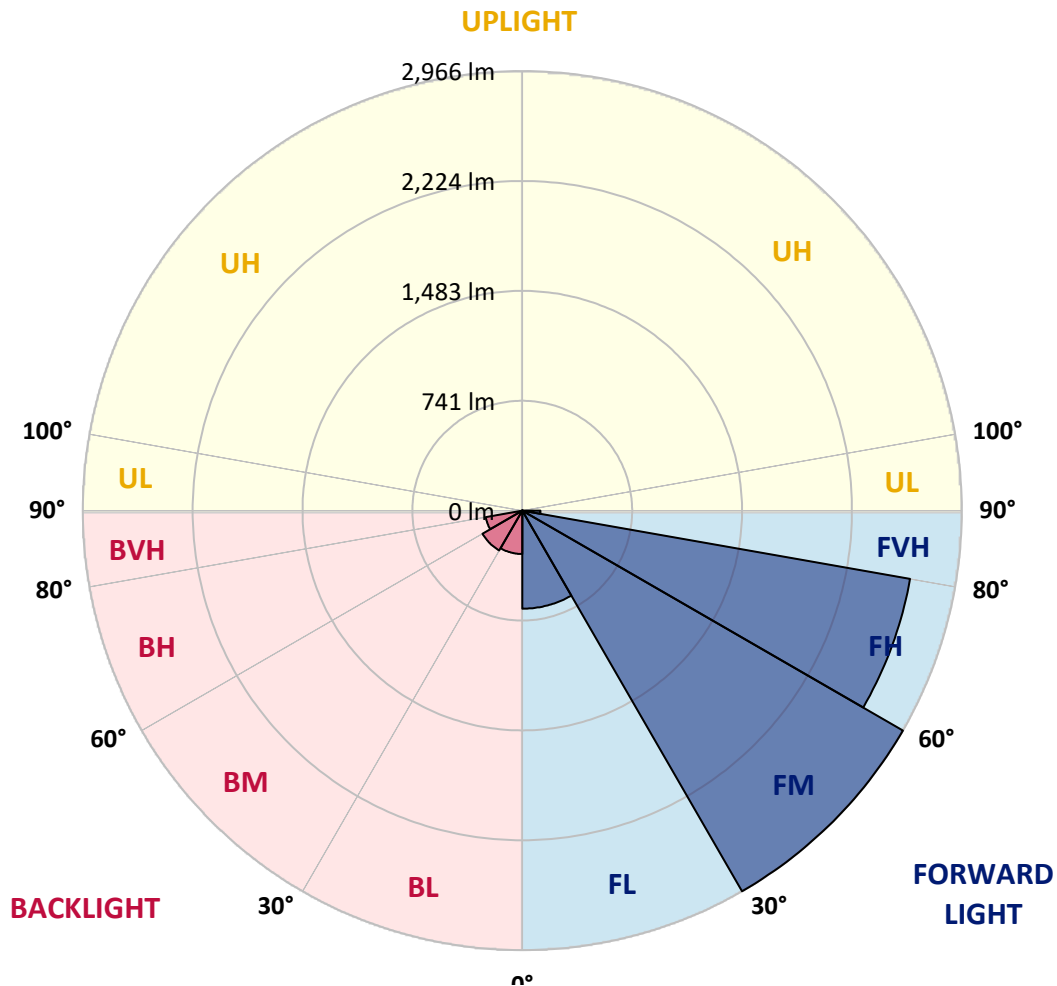
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	661.7	9.1			
FM (30°-60°)	2965.6	40.8			
FH (60°-80°)	2656.4	36.6			G2/5000
FVH (80°-90°)	122.3	1.7			G2/225
BL (0°-30°)	292.9	4.0	B1/500		
BM (30°-60°)	310.2	4.3	B1/1000		
BH (60°-80°)	250.1	3.4	B1/500		G1/500
BVH (80°-90°)	2.8	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-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1851.4	1846.8	1850.5	1858.5	1862.5	1862.5	1865.5	1861.9	1863.1	1854.2	1841.3
5°	1735.6	1728.5	1738.6	1761.1	1788.7	1812.4	1847.4	1865.8	1867.7	1868.0	1852.9
7.5°	1610.8	1604.3	1619.4	1645.8	1681.5	1725.4	1786.6	1840.0	1843.1	1872.0	1860.9
10°	1509.4	1504.8	1522.3	1550.6	1592.4	1641.5	1716.5	1790.9	1799.8	1863.7	1859.7
12.5°	1428.9	1425.2	1441.8	1474.4	1517.1	1571.5	1649.8	1736.2	1748.2	1845.0	1853.6
15°	1370.2	1369.6	1383.4	1414.8	1462.1	1512.8	1593.0	1685.5	1699.3	1824.7	1852.6
17.5°	1339.5	1340.4	1350.5	1377.3	1417.8	1468.2	1545.0	1642.8	1657.8	1806.5	1857.2
20°	1336.4	1337.3	1342.8	1357.9	1390.8	1435.3	1506.0	1606.8	1622.5	1793.0	1864.6
22.5°	1363.4	1362.8	1364.4	1362.8	1381.3	1415.1	1480.2	1579.1	1597.3	1784.1	1870.5
25°	1415.4	1414.4	1413.8	1402.5	1390.2	1408.3	1469.4	1563.5	1580.7	1777.7	1873.8
27.5°	1487.6	1487.0	1486.0	1467.3	1430.4	1419.1	1470.7	1557.6	1572.1	1772.4	1873.2
30°	1582.5	1586.8	1585.6	1559.5	1502.0	1451.9	1483.6	1554.6	1567.2	1762.3	1866.8
32.5°	1694.1	1702.7	1709.4	1681.5	1609.6	1517.1	1513.4	1557.9	1567.2	1754.6	1855.1
35°	1809.9	1821.0	1845.9	1836.0	1741.4	1615.1	1564.7	1578.2	1585.9	1758.9	1849.6
37.5°	1923.9	1937.1	1991.2	2019.8	1914.1	1744.8	1644.6	1628.3	1632.3	1785.0	1855.7
40°	2056.4	2076.3	2158.4	2204.5	2120.3	1918.4	1764.1	1714.4	1715.9	1842.5	1884.3
42.5°	2230.3	2250.9	2339.7	2411.9	2352.6	2137.8	1926.4	1845.9	1844.3	1950.0	1951.6
45°	2442.3	2463.8	2555.7	2635.9	2609.2	2397.8	2134.1	2037.9	2036.1	2119.7	2079.1
47.5°	2682.6	2703.8	2785.9	2868.5	2897.4	2701.4	2398.7	2300.0	2295.7	2355.4	2276.1
50°	2888.8	2902.6	2978.2	3089.5	3219.8	3074.4	2727.8	2632.8	2628.2	2668.5	2565.2
52.5°	2963.8	2971.8	3048.6	3204.4	3529.5	3579.6	3160.1	3037.8	3034.5	3052.0	2950.3
55°	2812.0	2826.4	2920.8	3151.8	3697.3	4150.5	3705.9	3539.3	3513.8	3476.0	3352.8
57.5°	2398.4	2421.4	2522.8	2830.1	3618.9	4603.5	4507.9	4106.6	4069.1	3838.0	3680.1
60°	1797.0	1825.3	1909.5	2241.0	3200.7	4764.8	5384.3	4738.7	4654.2	4126.3	3980.9
62.5°	1233.1	1247.3	1304.4	1520.5	2357.2	4500.5	6117.5	5585.3	5431.0	4439.7	4306.3
65°	941.8	946.8	970.1	1044.5	1403.7	3655.8	6409.1	6702.2	6515.7	4814.6	4644.0
67.5°	759.0	755.0	787.3	893.6	940.0	2230.3	6068.9	7759.0	7671.7	5315.8	4983.9
69°	669.3	663.7	696.6	820.1	882.8	1474.4	5425.5	7999.0	8004.5	5580.3	5007.2
70°	602.3	606.0	638.5	776.5	863.5	1157.2	4810.9	7937.8	7981.5	5679.3	4867.1
72.5°	402.2	412.1	477.5	644.7	830.3	875.8	2904.8	6811.6	6979.4	5456.5	4175.7
75°	226.8	234.2	311.9	486.1	782.4	834.0	1534.3	5018.3	5180.6	4562.9	3220.1
77.5°	111.2	115.2	176.4	313.7	654.2	794.6	870.2	3408.7	3594.0	2978.2	1821.3
80°	47.0	49.2	88.2	193.6	467.7	758.4	646.2	2097.9	2120.9	1166.8	485.2
82.5°	18.1	18.7	37.2	120.8	297.1	591.2	540.5	994.7	970.7	219.7	110.6
85°	2.2	2.5	13.5	72.5	165.3	304.2	439.1	428.7	396.7	43.6	56.8
87.5°	0.0	0.0	0.9	22.1	49.2	142.6	228.3	177.9	160.4	14.1	29.5
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°	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1	1835.1
2.5°	1830.5	1827.4	1810.8	1786.9	1764.1	1735.9	1708.8	1692.5	1679.6	1671.0	1681.2
5°	1835.4	1821.9	1771.5	1707.0	1643.7	1572.4	1506.0	1449.8	1427.7	1403.1	1414.1
7.5°	1833.9	1808.4	1717.7	1602.8	1486.7	1366.5	1252.8	1165.2	1119.8	1075.2	1086.6
10°	1826.2	1783.2	1645.8	1475.6	1301.7	1129.0	967.6	845.0	776.5	714.4	723.4
12.5°	1809.3	1749.4	1561.0	1329.9	1097.3	869.6	680.6	523.6	439.4	402.2	406.8
15°	1799.2	1716.5	1471.3	1182.4	879.1	605.7	416.1	309.4	271.0	258.7	260.3
17.5°	1794.3	1684.9	1378.5	1013.7	656.1	385.6	268.9	237.2	228.9	226.8	227.4
20°	1789.3	1652.9	1282.9	846.9	452.0	259.4	220.9	211.7	208.6	205.9	206.5
22.5°	1781.0	1622.2	1180.3	677.9	304.8	210.5	199.1	190.2	183.8	180.4	181.0
25°	1770.9	1589.9	1075.5	504.9	222.5	187.8	177.0	164.4	156.7	150.6	150.9
27.5°	1754.6	1550.3	967.3	367.5	186.8	168.1	153.6	139.8	126.9	119.8	119.8
30°	1731.9	1505.4	847.2	263.0	167.5	148.7	131.2	114.0	100.2	93.7	93.1
32.5°	1706.7	1458.7	725.8	199.4	152.1	130.6	110.6	92.5	80.2	75.0	74.7
35°	1685.2	1408.3	604.7	167.2	136.7	113.1	91.3	75.9	66.1	61.8	61.5
37.5°	1671.3	1357.9	486.7	149.3	122.9	96.8	76.5	62.7	55.6	52.2	51.9
40°	1669.2	1320.4	378.9	135.8	110.0	82.4	63.9	53.2	46.7	43.0	42.7
42.5°	1697.1	1298.9	290.7	124.5	96.8	69.8	54.4	45.5	38.7	35.0	34.7
45°	1770.6	1305.7	223.7	114.3	83.6	59.0	46.1	37.8	31.7	28.9	28.3
47.5°	1904.6	1352.4	177.9	104.2	71.0	50.1	39.3	31.3	26.1	23.4	23.0
50°	2143.0	1462.1	148.7	93.1	59.3	42.7	32.6	25.5	21.2	18.7	18.4
52.5°	2459.5	1657.5	132.7	82.4	49.2	36.3	26.7	20.3	16.6	14.7	14.4
55°	2808.6	1894.1	122.3	70.7	40.3	30.1	21.2	16.0	12.9	11.4	10.8
57.5°	3149.4	2099.1	112.5	59.3	33.5	24.6	16.9	12.6	10.1	8.6	8.3
60°	3462.5	2287.4	101.1	47.6	27.3	19.4	13.2	9.8	8.0	6.5	6.5
62.5°	3797.8	2433.1	85.4	37.2	22.4	14.7	10.8	8.9	6.5	5.5	5.2
65°	4153.0	2541.3	67.0	28.9	17.5	11.1	8.9	9.2	5.2	4.0	3.7
67.5°	4415.4	2519.8	49.5	22.7	13.5	8.6	8.6	9.8	4.6	3.1	2.8
69°	4357.6	2344.9	41.5	19.7	11.7	7.4	8.0	9.8	4.3	2.8	2.5
70°	4190.2	2151.3	36.6	17.5	10.4	6.8	7.7	9.5	4.0	2.8	2.5
72.5°	3489.6	1620.3	28.6	13.2	8.3	5.5	6.5	8.3	4.0	2.8	2.2
75°	2624.8	1037.1	21.8	9.5	6.1	4.3	4.9	6.1	4.0	2.5	2.2
77.5°	1428.3	374.0	15.7	6.5	4.3	3.4	3.4	4.6	3.7	1.8	1.2
80°	367.2	94.0	9.8	4.3	3.4	2.5	2.2	3.1	2.2	0.3	0.0
82.5°	90.6	21.2	5.2	3.1	2.5	0.9	0.9	1.5	0.9	0.0	0.0
85°	49.8	10.4	3.4	2.2	1.2	0.0	0.0	0.3	0.0	0.0	0.0
87.5°	25.5	3.1	0.9	0.6	0.3	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

Scaled Data Report



Report Generated By 670245982

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