

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: P386959

Luminaire Tested: **GWC-SA2C-830-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P386959  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA2C-830-U-T3  
Description: GALLEON WALL LUMINAIRE  
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11732 lumens  
Efficiency: N/A  
Efficacy: 105.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2

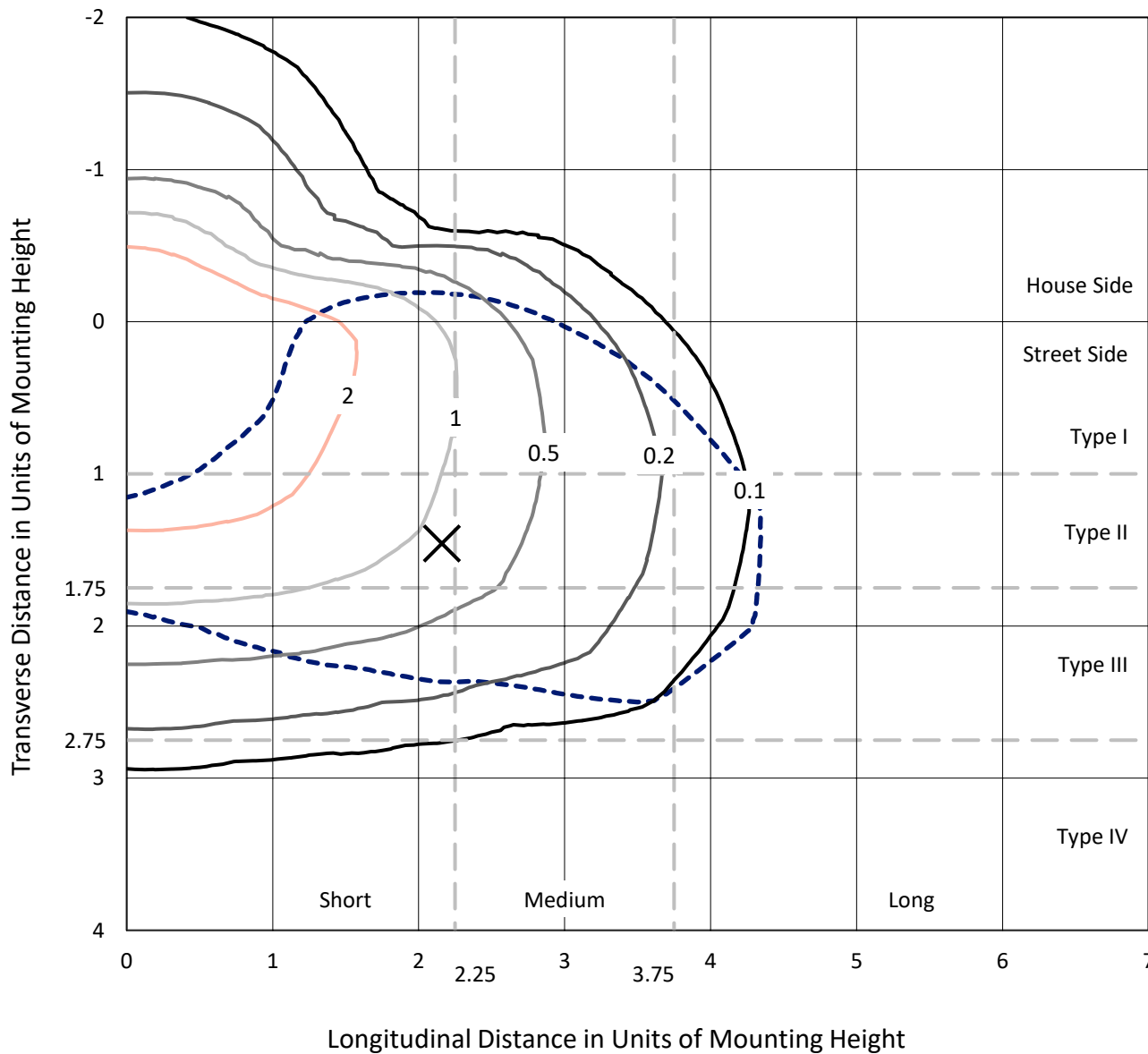
Input Watts (W): 111  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

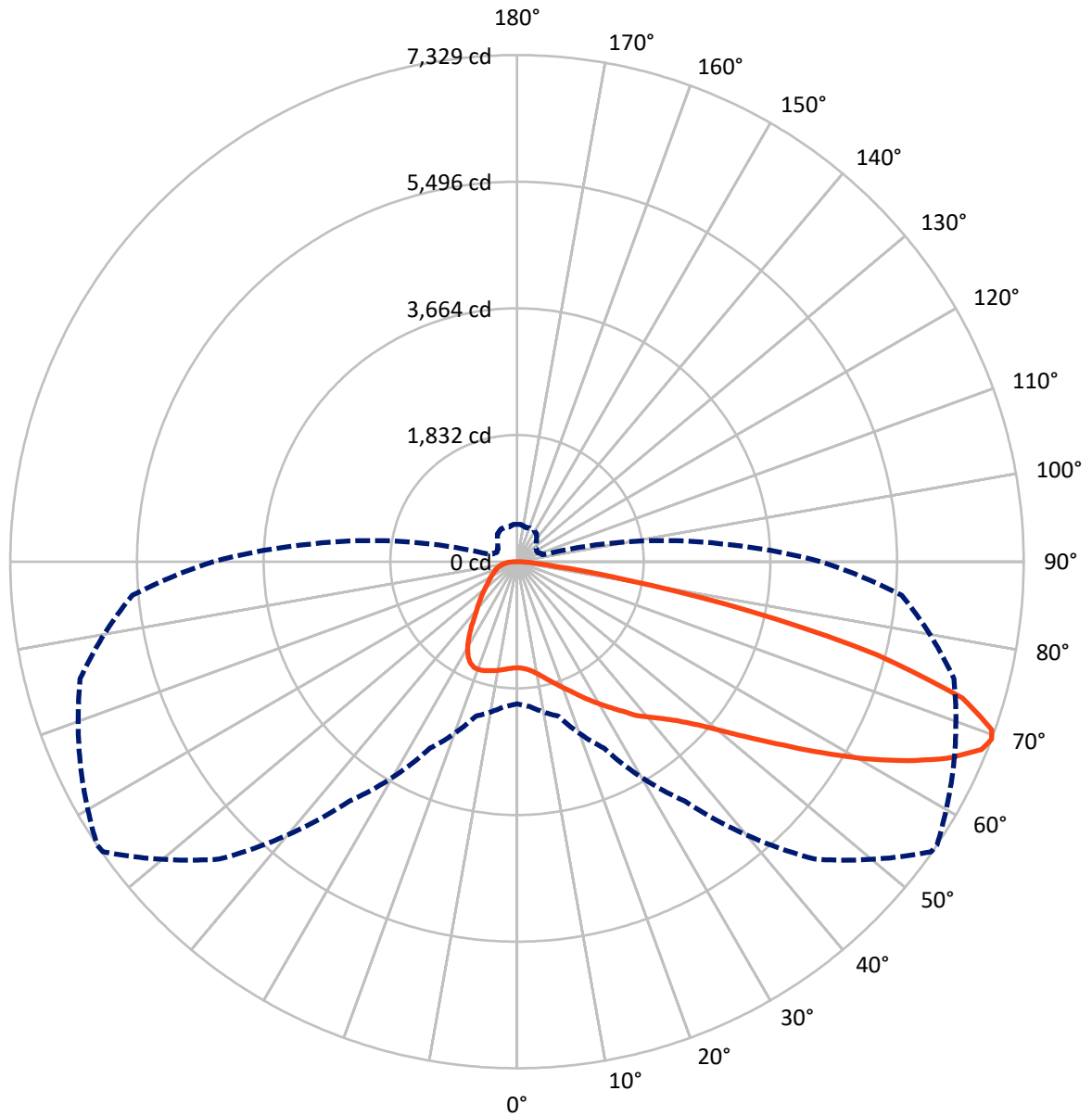
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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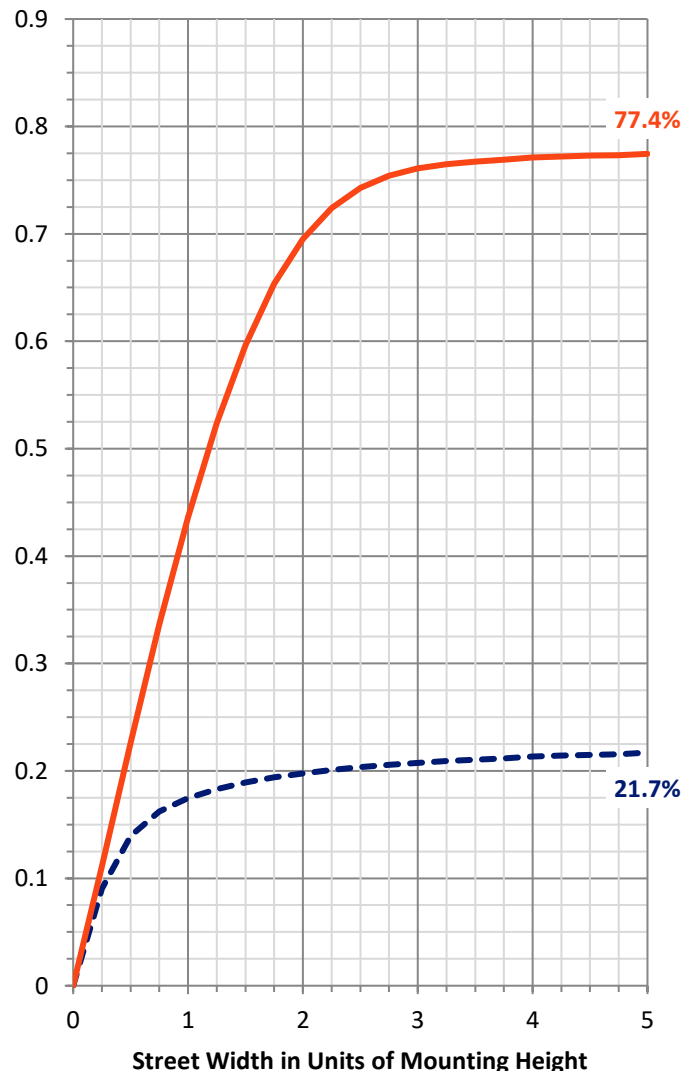
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2612.7	0.0	2612.7
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	9119.3	0.0	9119.3
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	11732.0	0.0	11732.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.6	1.3
10°-20°	484.4	4.1
20°-30°	845.6	7.2
30°-40°	1214.7	10.4
40°-50°	1681.0	14.3
50°-60°	2462.9	21.0
60°-70°	3002.8	25.6
70°-80°	1660.1	14.2
80°-90°	229.9	2.0
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°	11732.0	100.0
0°-180°	11732.0	100.0



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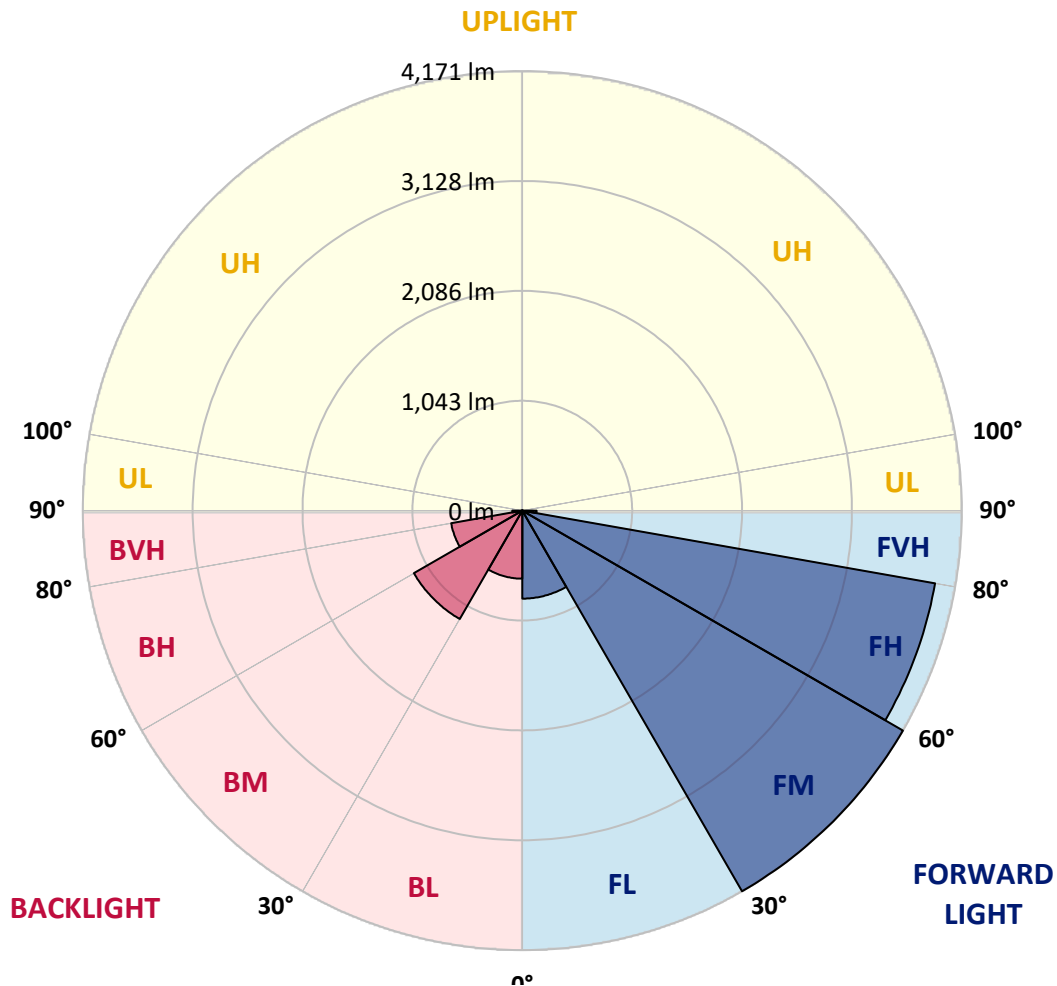
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	835.0	7.1			
FM (30°-60°)	4171.2	35.6			
FH (60°-80°)	3977.7	33.9			G2/5000
FVH (80°-90°)	135.4	1.2			G2/225
BL (0°-30°)	645.7	5.5	B2/1000		
BM (30°-60°)	1187.4	10.1	B2/2500		
BH (60°-80°)	685.1	5.8	B2/1000		G2/1000
BVH (80°-90°)	94.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1543.5	1545.1	1543.9	1547.1	1543.5	1545.9	1543.9	1543.9	1542.7	1539.0	1535.0
5°	1567.7	1571.0	1568.9	1572.2	1567.7	1568.5	1564.9	1564.9	1561.3	1553.6	1545.5
7.5°	1605.7	1609.4	1607.7	1611.0	1604.9	1604.9	1600.1	1599.7	1592.4	1579.9	1570.6
10°	1651.0	1655.8	1654.2	1659.1	1654.2	1655.8	1651.0	1651.0	1641.3	1623.5	1611.8
12.5°	1716.9	1722.9	1718.5	1718.1	1716.1	1719.3	1715.2	1714.4	1705.5	1681.3	1665.1
15°	1805.0	1811.4	1802.1	1801.3	1790.0	1788.8	1788.8	1787.6	1781.9	1752.8	1726.2
17.5°	1906.4	1908.4	1900.4	1887.4	1872.9	1863.6	1862.4	1865.6	1865.6	1831.6	1789.2
20°	2005.8	2009.5	2003.0	1988.5	1969.9	1956.1	1946.4	1952.9	1952.5	1912.1	1851.9
22.5°	2114.2	2122.6	2112.9	2094.4	2072.5	2057.2	2040.2	2045.9	2046.3	1996.5	1913.3
25°	2254.4	2246.7	2240.7	2214.4	2183.3	2167.5	2151.7	2157.4	2155.8	2087.5	1976.7
27.5°	2378.5	2380.1	2372.0	2344.1	2308.2	2273.4	2272.6	2276.2	2270.2	2182.1	2036.6
30°	2522.8	2523.6	2512.3	2487.2	2448.0	2403.1	2392.6	2398.7	2385.7	2271.8	2099.6
32.5°	2666.2	2670.3	2657.7	2627.4	2595.9	2541.4	2520.3	2524.4	2492.0	2363.5	2164.7
35°	2791.9	2797.6	2793.5	2773.3	2739.0	2692.1	2667.0	2664.6	2624.6	2475.9	2250.8
37.5°	2920.0	2925.3	2920.9	2903.9	2890.1	2840.4	2827.1	2827.1	2757.6	2590.7	2360.3
40°	3051.8	3059.9	3054.6	3031.2	3019.5	2996.8	2964.9	2957.2	2882.1	2728.5	2538.9
42.5°	3174.3	3184.8	3205.8	3192.0	3168.2	3171.4	3107.2	3103.1	3048.2	2932.2	2763.2
45°	3348.1	3363.4	3399.0	3388.5	3383.6	3365.8	3289.4	3285.8	3264.8	3206.2	3041.7
47.5°	3537.6	3558.6	3622.9	3624.9	3677.0	3643.5	3539.6	3527.1	3531.9	3534.4	3381.6
50°	3712.2	3735.2	3840.7	3890.4	4013.3	4020.6	3854.5	3843.1	3862.1	3917.9	3777.7
52.5°	3851.6	3880.7	4012.5	4166.1	4376.6	4436.5	4242.1	4233.6	4247.7	4343.9	4225.5
55°	3953.9	3985.4	4128.9	4408.6	4744.8	4850.3	4688.2	4680.2	4689.0	4811.5	4712.5
57.5°	3977.7	3985.4	4193.6	4571.8	5055.6	5309.0	5234.3	5218.1	5174.4	5281.1	5250.0
60°	3865.8	3896.5	4140.2	4629.2	5296.1	5761.3	5804.9	5784.7	5662.3	5749.6	5724.5
62.5°	3638.6	3693.6	3941.0	4541.9	5390.3	6130.7	6364.7	6340.4	6129.5	6186.1	6065.6
65°	3267.6	3291.1	3550.9	4240.8	5270.6	6367.1	6863.8	6851.7	6586.2	6497.7	6128.7
67.5°	2604.0	2648.0	2868.7	3611.6	4781.2	6339.2	7249.8	7248.6	6884.4	6613.2	5905.2
69°	2057.2	2102.8	2313.0	2975.0	4230.7	6084.2	7314.5	7328.6	6968.5	6542.9	5585.9
70°	1640.1	1693.0	1837.3	2505.8	3742.1	5747.9	7260.7	7286.2	6952.3	6426.9	5291.2
72.5°	698.0	740.8	843.5	1291.7	2280.7	4292.2	6638.7	6734.9	6577.7	5882.1	4373.0
75°	304.7	318.1	364.6	526.6	1012.4	2336.0	5200.7	5378.5	5624.3	4972.0	3257.5
77.5°	223.1	228.8	254.2	309.2	454.3	882.3	3344.4	3447.9	4056.1	3618.0	1998.2
80°	172.6	176.6	196.4	227.1	296.7	356.9	1525.3	1614.2	2280.7	1858.3	832.2
82.5°	137.4	140.2	154.0	167.3	204.9	216.2	506.4	561.8	841.9	513.3	220.3
85°	127.7	130.9	135.8	122.1	131.4	126.9	219.1	229.2	254.2	201.7	92.1
87.5°	57.8	68.3	134.6	95.0	69.9	55.8	89.7	93.8	105.5	105.9	40.8
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°	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8	1533.8
2.5°	1537.4	1536.2	1538.2	1533.4	1539.4	1539.0	1537.0	1537.8	1541.9	1541.5	1541.9
5°	1546.7	1545.9	1548.3	1544.7	1552.0	1554.4	1554.8	1558.4	1562.9	1564.1	1564.1
7.5°	1570.2	1570.2	1571.4	1566.5	1571.4	1571.0	1568.9	1572.6	1577.0	1577.4	1577.0
10°	1610.6	1611.0	1609.0	1596.4	1592.4	1581.5	1571.4	1571.8	1577.4	1581.9	1583.1
12.5°	1661.5	1659.9	1651.0	1628.0	1611.0	1588.7	1578.2	1577.8	1583.5	1587.1	1588.3
15°	1719.7	1715.2	1692.2	1654.6	1624.7	1602.9	1585.9	1581.9	1578.6	1574.6	1575.0
17.5°	1774.7	1764.6	1726.2	1674.0	1642.5	1613.4	1580.7	1554.4	1536.2	1525.7	1522.5
20°	1830.4	1810.6	1755.3	1692.2	1652.2	1599.3	1536.2	1482.9	1449.7	1434.4	1431.5
22.5°	1881.4	1849.4	1782.3	1711.2	1644.5	1551.6	1452.5	1374.9	1328.9	1308.3	1309.9
25°	1931.1	1886.6	1810.6	1724.5	1605.7	1467.5	1336.1	1240.8	1187.4	1164.4	1163.6
27.5°	1974.7	1924.2	1841.3	1713.6	1533.4	1347.9	1198.3	1105.4	1060.9	1041.1	1037.9
30°	2024.8	1971.5	1882.2	1672.0	1427.5	1209.6	1063.7	998.3	966.7	946.9	943.3
32.5°	2085.9	2035.7	1915.7	1596.4	1292.1	1065.4	958.7	913.0	884.3	862.1	858.0
35°	2174.8	2120.6	1924.2	1488.1	1143.4	951.4	881.5	834.6	795.8	767.1	764.3
37.5°	2286.3	2226.9	1904.8	1347.9	999.1	877.4	817.2	759.4	708.9	668.5	662.0
40°	2447.2	2357.5	1851.0	1186.2	892.8	820.4	754.6	688.7	626.0	578.8	569.5
42.5°	2640.4	2510.6	1768.6	1025.4	814.8	762.6	692.3	610.7	550.9	517.3	512.5
45°	2886.1	2669.9	1654.2	884.7	738.0	704.9	625.2	550.1	512.9	488.2	484.2
47.5°	3166.6	2848.5	1534.2	770.3	672.9	650.7	571.5	523.0	493.5	474.1	470.4
50°	3511.3	3050.2	1406.9	676.6	607.5	585.6	546.0	508.0	484.6	469.6	466.0
52.5°	3900.1	3277.7	1315.1	602.6	553.3	537.5	532.7	499.9	480.9	469.6	466.0
55°	4318.8	3509.3	1216.1	540.4	506.4	510.9	523.8	500.8	487.8	474.1	468.8
57.5°	4738.0	3748.6	1105.8	487.8	469.2	491.1	517.7	502.4	491.5	478.1	473.3
60°	5069.4	3900.1	934.8	443.8	439.7	469.2	503.2	490.2	476.1	476.5	475.7
62.5°	5224.2	3892.0	746.1	404.6	410.2	439.7	479.7	471.2	459.5	475.3	476.5
65°	5137.3	3698.1	580.8	369.0	378.7	409.0	455.5	462.0	466.0	496.3	500.3
67.5°	4772.7	3320.6	449.8	337.9	350.0	388.0	457.9	503.2	508.4	540.4	540.0
69°	4395.6	2966.5	390.8	321.7	335.9	393.2	489.4	529.4	509.6	543.6	538.7
70°	4079.6	2686.4	359.3	310.8	329.4	402.5	510.5	529.0	503.6	532.7	524.6
72.5°	3141.9	1932.7	304.7	290.6	307.6	385.2	516.5	517.3	489.4	495.1	481.4
75°	2155.0	1221.4	265.9	263.1	274.4	347.2	497.1	494.3	452.7	444.6	433.3
77.5°	1188.2	620.4	225.9	236.8	244.5	307.6	451.8	447.8	413.5	396.5	392.4
80°	458.3	271.6	190.8	210.6	215.4	266.3	396.1	392.4	363.7	341.9	335.9
82.5°	173.0	142.3	157.6	182.3	180.7	219.9	335.5	333.4	305.5	273.6	263.9
85°	80.0	85.3	124.9	150.3	138.6	162.9	268.4	272.0	238.0	200.1	200.1
87.5°	33.9	47.7	88.5	113.6	93.4	109.9	196.8	187.9	172.6	119.6	112.4
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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