

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: P385509

Luminaire Tested: **GWC-SA1A-735-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-SA1A-735-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4642.5 lumens  
Efficiency: N/A  
Efficacy: 136.5 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

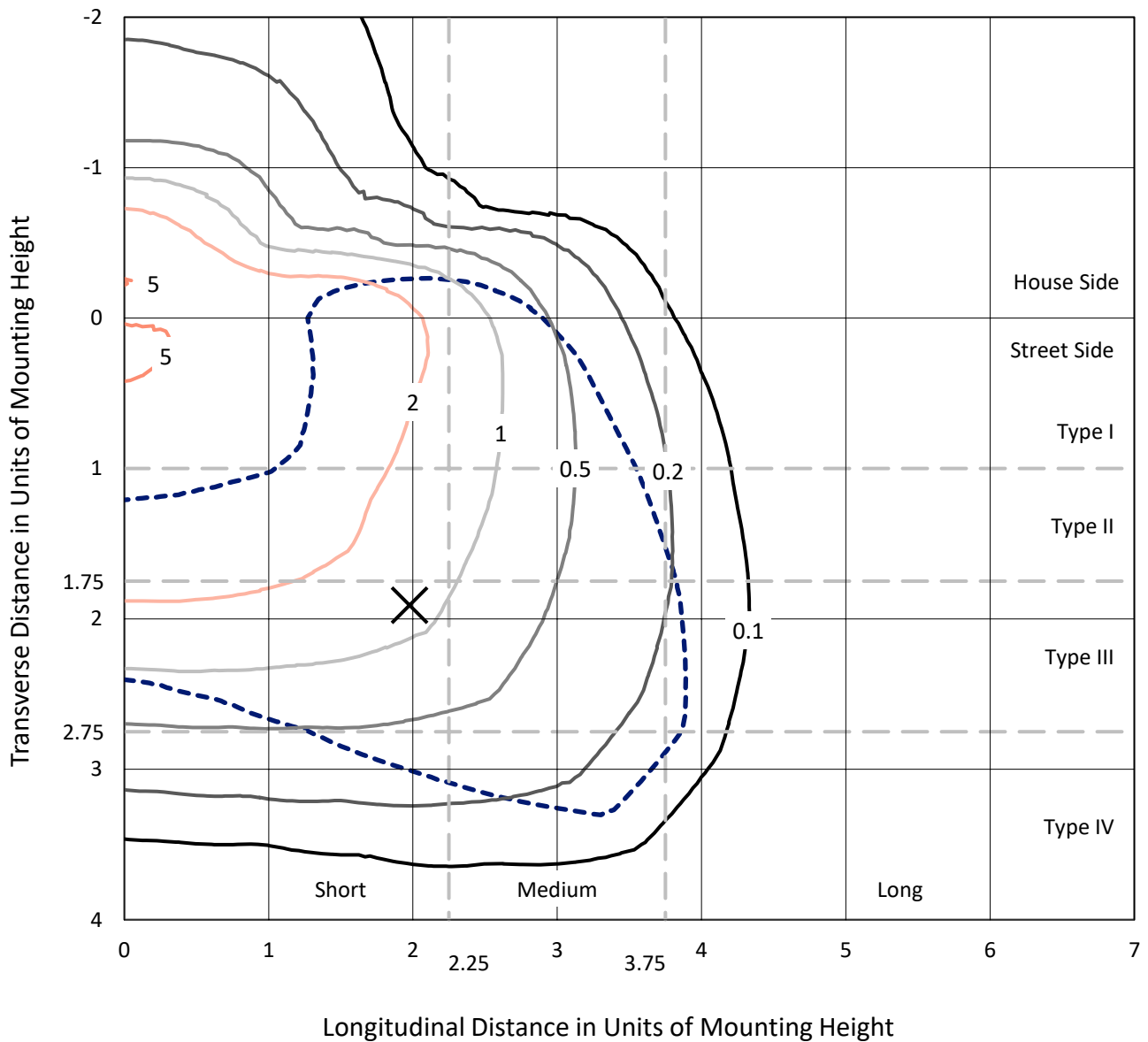
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

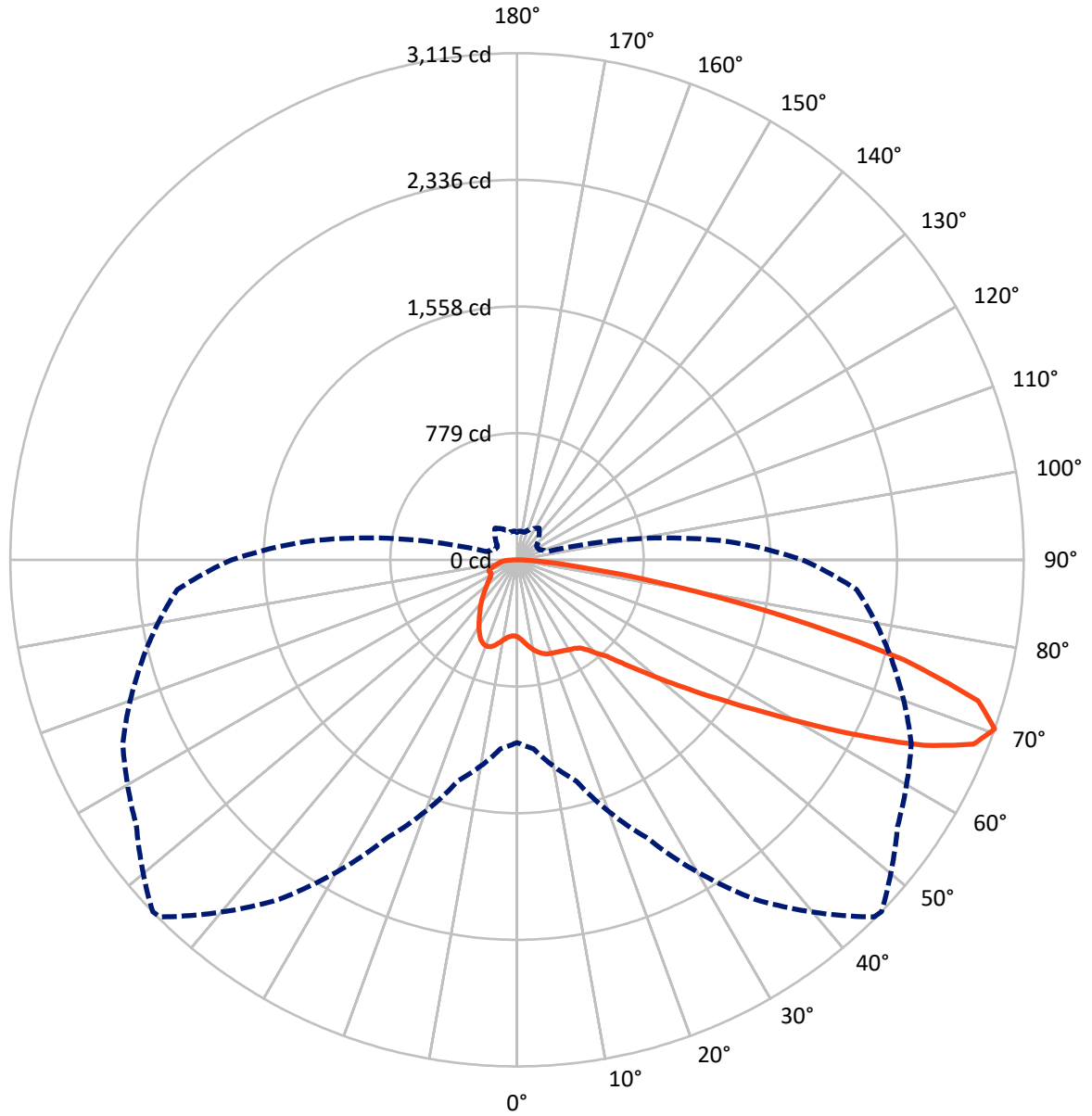
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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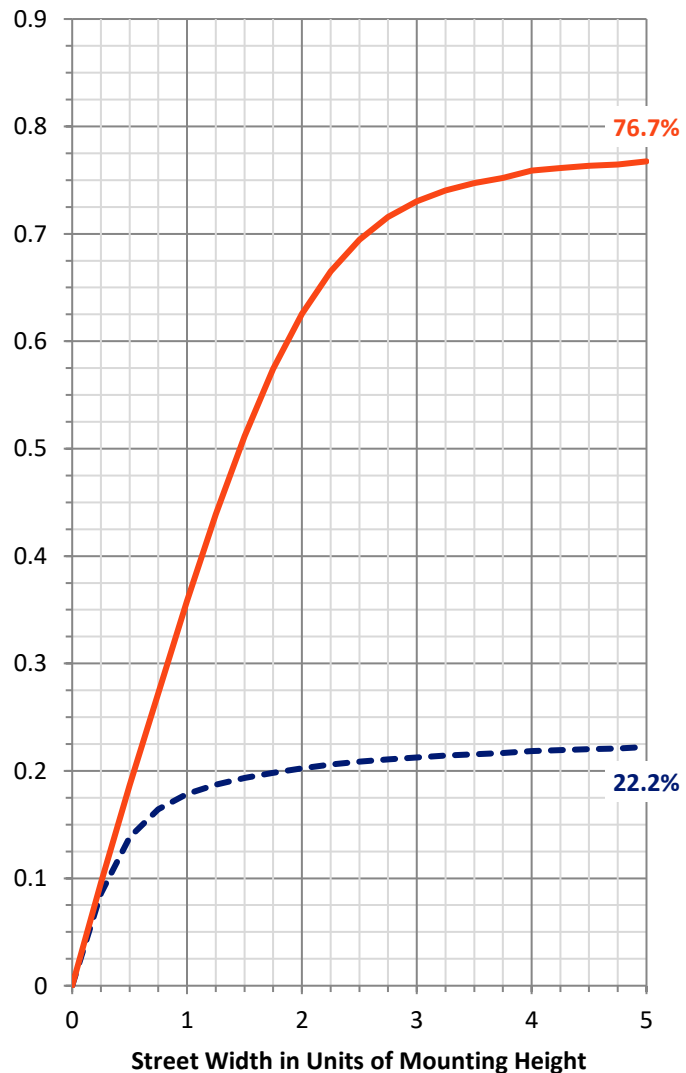
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1064.0	0.0	1064.0
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3578.4	0.0	3578.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	4642.5	0.0	4642.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.2	1.0
10°-20°	160.6	3.5
20°-30°	267.9	5.8
30°-40°	380.1	8.2
40°-50°	559.1	12.0
50°-60°	946.9	20.4
60°-70°	1344.0	29.0
70°-80°	816.5	17.6
80°-90°	119.2	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°	4642.5	100.0
0°-180°	4642.5	100.0



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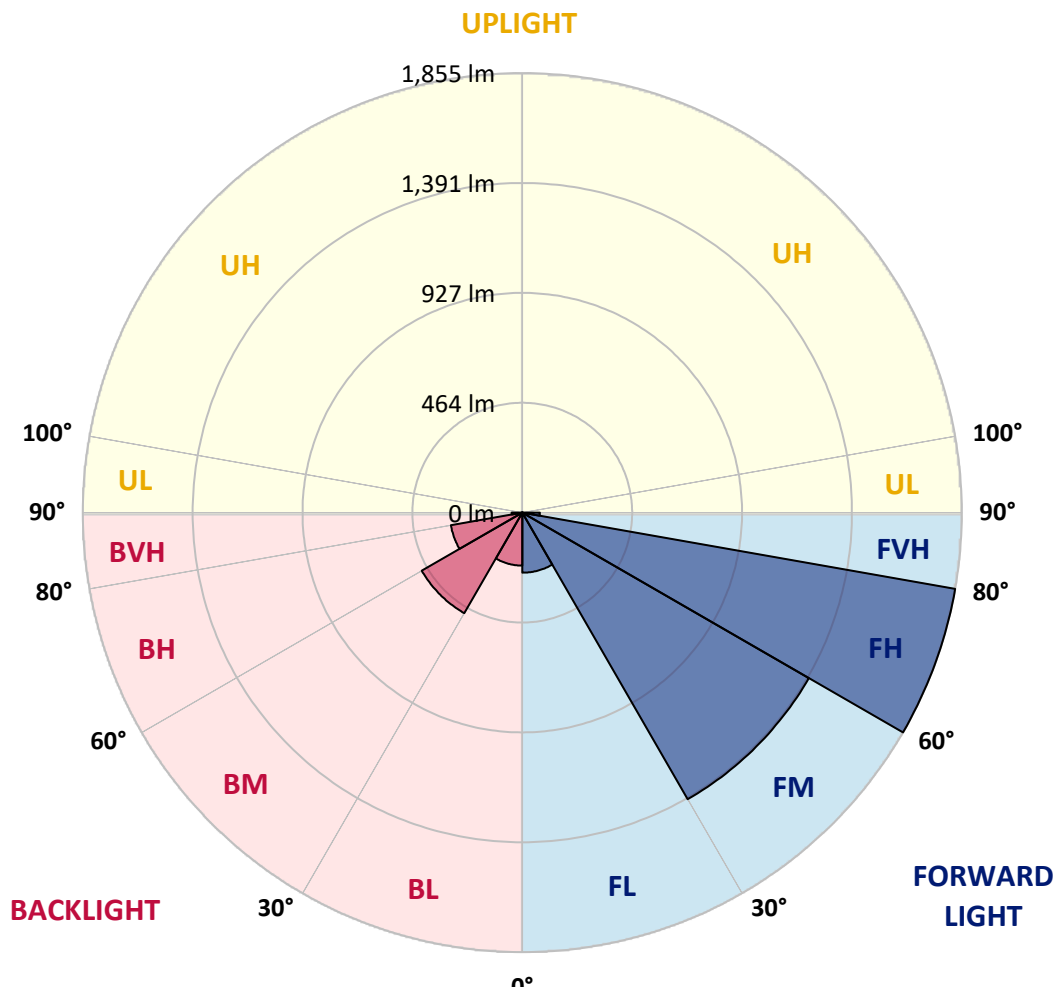
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.3	5.5			
FM (30°-60°)	1396.3	30.1			
FH (60°-80°)	1854.6	39.9			G2/5000
FVH (80°-90°)	74.2	1.6			G1/100
BL (0°-30°)	223.4	4.8	B1/500		
BM (30°-60°)	489.8	10.6	B1/1000		
BH (60°-80°)	305.9	6.6	B1/500		G1/500
BVH (80°-90°)	44.9	1.0			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°	35°	45°	46°	55°	65°	75°	85°
0°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
2.5°	496.7	496.9	497.6	496.0	491.6	490.3	489.8	485.2	482.2	477.8	473.9
5°	536.4	536.7	535.7	531.3	521.5	514.1	513.5	503.0	493.5	483.3	475.7
7.5°	577.8	578.3	575.3	566.8	553.0	540.3	539.6	525.2	510.7	495.3	484.0
10°	614.6	612.7	607.7	596.0	579.6	564.0	563.4	548.4	531.8	513.2	497.9
12.5°	639.0	637.4	631.1	616.8	598.8	584.5	583.3	569.5	553.2	532.9	514.6
15°	652.5	653.6	645.1	628.8	611.4	599.2	598.2	588.3	573.9	553.4	532.4
17.5°	654.3	655.2	647.0	630.9	616.6	608.4	607.9	601.3	590.9	571.2	549.3
20°	644.0	644.7	637.8	624.7	615.3	612.8	612.7	609.8	602.0	584.5	563.3
22.5°	629.3	629.8	624.9	615.3	612.1	616.1	617.3	616.1	610.6	594.2	574.2
25°	625.6	625.4	620.3	610.6	613.2	621.7	623.1	623.6	619.8	605.4	588.2
27.5°	643.3	642.2	632.5	616.9	618.7	628.8	630.7	635.3	633.0	620.4	604.0
30°	694.3	692.4	672.5	641.0	632.5	637.8	640.1	647.4	647.9	637.4	625.2
32.5°	780.4	778.0	742.4	686.2	655.9	646.8	649.0	660.0	665.8	657.8	644.6
35°	889.2	886.5	839.8	763.0	695.0	664.2	665.7	674.4	686.2	674.8	657.3
37.5°	1002.7	996.1	951.2	853.2	757.1	701.2	701.2	702.2	707.8	684.0	672.2
40°	1115.4	1109.0	1068.3	959.3	837.5	759.4	755.7	731.1	726.7	706.2	702.2
42.5°	1220.4	1218.4	1194.4	1079.3	931.8	816.8	811.7	769.9	770.9	758.2	758.3
45°	1331.9	1331.9	1312.3	1200.4	1041.8	909.0	903.9	842.4	851.9	846.0	860.2
47.5°	1422.9	1425.8	1423.1	1326.4	1169.6	1026.0	1016.8	942.8	969.5	989.7	1030.8
50°	1515.8	1520.3	1520.8	1464.9	1324.3	1165.2	1154.7	1076.1	1135.6	1193.5	1274.4
52.5°	1650.7	1660.8	1620.8	1602.9	1513.6	1330.5	1320.1	1247.5	1347.0	1428.2	1567.5
55°	1775.7	1767.0	1738.6	1749.7	1716.4	1518.5	1510.7	1447.0	1582.4	1687.9	1868.8
57.5°	1843.5	1842.8	1871.5	1919.1	1935.0	1750.5	1744.0	1682.1	1847.9	1927.2	2151.9
60°	1922.9	1924.0	1994.9	2103.0	2168.5	2039.3	2036.5	1989.4	2105.7	2150.6	2373.8
62.5°	1934.0	1954.0	2076.1	2262.2	2387.1	2376.8	2383.1	2266.4	2336.5	2328.9	2539.5
65°	1806.1	1832.5	2053.3	2310.4	2604.5	2745.8	2751.8	2544.9	2518.3	2481.2	2598.7
67.5°	1544.0	1583.1	1823.0	2205.7	2676.1	3018.6	3026.9	2760.8	2669.3	2532.8	2456.0
70°	1123.6	1166.9	1408.4	1883.8	2548.4	3105.9	3115.3	2856.3	2675.0	2385.9	2096.7
72.5°	678.7	712.7	911.8	1386.8	2150.9	2947.0	2963.7	2735.2	2442.2	2020.9	1548.2
75°	298.1	320.3	440.9	799.1	1539.9	2438.3	2459.1	2341.3	1984.4	1468.6	915.2
77.5°	126.9	133.3	180.8	347.1	870.5	1666.1	1694.8	1710.6	1346.3	799.1	386.7
80°	79.1	81.6	102.3	157.2	407.3	935.8	966.6	1006.5	668.6	293.7	135.1
82.5°	48.1	51.0	68.0	95.0	212.1	424.2	439.0	467.1	259.5	126.9	69.9
85°	28.9	31.0	41.6	60.0	120.7	166.8	166.6	184.3	122.2	81.6	36.8
87.5°	13.8	15.4	22.3	31.1	60.9	62.6	58.6	66.4	74.2	53.5	18.6
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°	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0	473.0
2.5°	472.7	472.0	470.0	468.4	468.1	467.1	466.3	466.8	467.4	467.5	467.5
5°	472.5	470.7	468.1	467.0	468.4	470.3	472.7	475.8	477.8	479.2	480.1
7.5°	480.1	476.8	473.7	473.2	476.0	481.1	486.5	493.2	497.8	501.0	501.5
10°	492.8	488.7	485.7	486.3	491.4	498.7	506.3	514.9	521.9	526.2	526.5
12.5°	507.5	503.5	500.6	503.3	511.8	520.6	528.6	536.0	542.4	546.7	546.7
15°	524.3	521.5	518.1	524.3	535.7	543.7	547.0	550.7	554.1	557.3	556.7
17.5°	540.5	537.8	536.0	543.3	555.3	558.9	556.7	554.0	554.0	555.7	556.0
20°	554.5	552.1	553.2	560.3	566.5	562.8	554.5	545.9	542.4	543.3	544.3
22.5°	566.7	565.6	568.9	572.3	567.9	554.5	539.2	527.7	523.3	523.1	523.3
25°	581.0	580.8	585.0	578.9	559.2	534.6	514.1	502.9	500.5	502.4	505.6
27.5°	598.8	600.6	602.6	580.5	541.7	504.5	483.8	476.0	478.3	482.9	486.0
30°	621.5	626.3	621.9	576.6	516.7	470.3	450.4	448.2	454.7	461.2	464.4
32.5°	643.6	651.1	640.3	566.3	484.3	433.9	418.5	417.8	425.8	432.1	436.6
35°	661.4	676.2	654.1	545.8	446.8	400.4	389.1	384.8	387.7	395.1	400.2
37.5°	684.6	709.2	663.6	514.4	406.1	372.8	359.5	349.6	347.1	350.2	352.7
40°	727.0	759.6	668.1	470.7	366.4	345.0	331.7	317.2	307.3	299.9	300.1
42.5°	796.3	825.2	665.2	417.7	329.6	318.1	303.0	286.3	270.1	253.5	252.3
45°	908.8	922.8	656.6	361.5	297.4	289.8	275.6	259.0	237.4	218.6	216.9
47.5°	1088.8	1057.9	643.3	312.3	268.9	265.8	252.8	233.5	210.7	195.6	194.3
50°	1334.2	1252.8	636.8	273.3	243.9	244.8	234.2	213.8	192.2	181.1	179.9
52.5°	1627.9	1479.8	649.3	243.1	223.7	227.1	219.1	200.0	182.0	173.1	171.9
55°	1932.4	1715.0	662.8	221.1	204.6	211.2	208.5	192.8	176.3	168.2	167.1
57.5°	2193.1	1890.5	635.8	203.4	187.6	197.8	200.2	188.1	173.5	166.2	165.0
60°	2357.2	1961.2	565.0	186.7	174.2	187.1	195.4	186.8	174.6	174.0	173.0
62.5°	2435.1	1955.0	458.7	173.5	165.7	182.5	198.9	194.0	187.3	193.0	193.5
65°	2400.2	1861.6	341.6	164.8	159.7	184.3	209.4	207.5	191.0	196.7	197.5
67.5°	2170.1	1638.7	253.0	157.2	153.0	189.2	228.5	211.9	183.8	188.0	185.4
70°	1754.0	1299.2	195.1	148.5	146.2	188.6	237.0	209.2	176.0	177.0	170.1
72.5°	1209.6	885.9	158.8	140.6	136.3	171.9	231.0	202.5	169.6	162.2	153.1
75°	657.8	475.5	134.9	132.4	119.0	151.0	219.9	197.8	163.6	154.0	148.9
77.5°	258.8	197.4	117.0	121.1	104.1	133.3	207.5	188.7	155.6	142.8	140.3
80°	105.7	100.7	97.0	104.7	89.4	116.6	192.6	178.1	145.9	132.5	127.4
82.5°	59.9	62.6	75.4	82.6	72.6	107.4	185.4	169.6	134.2	118.6	112.6
85°	30.6	36.7	52.6	59.3	53.4	91.3	170.8	148.4	107.7	90.8	91.3
87.5°	14.7	20.5	33.2	37.2	34.7	66.1	127.6	107.6	83.9	66.4	64.3
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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