

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: P385621

Luminaire Tested: **GWC-SA1A-830-U-T4W**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P385621  
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-830-U-T4W  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3927 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1

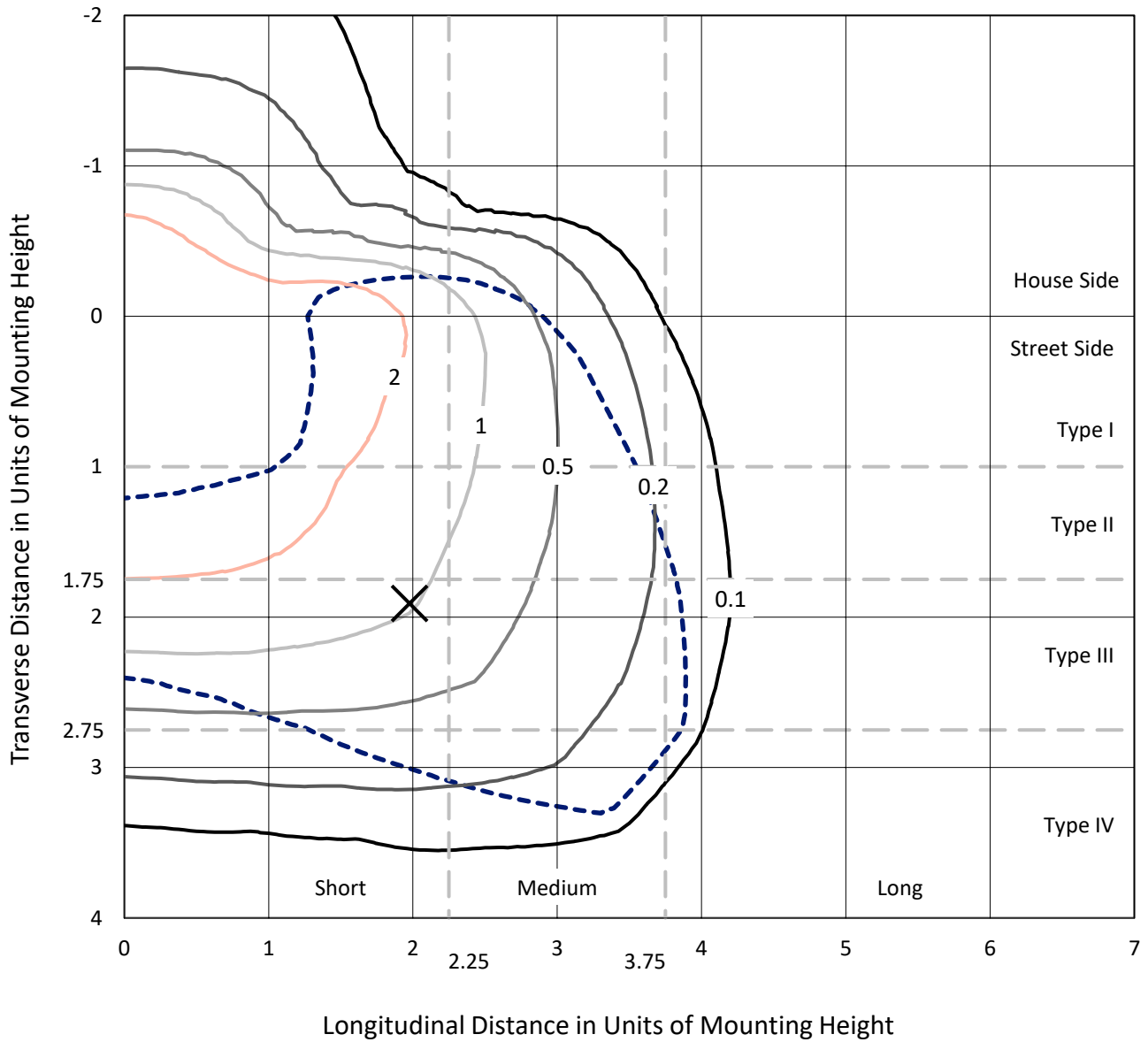
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

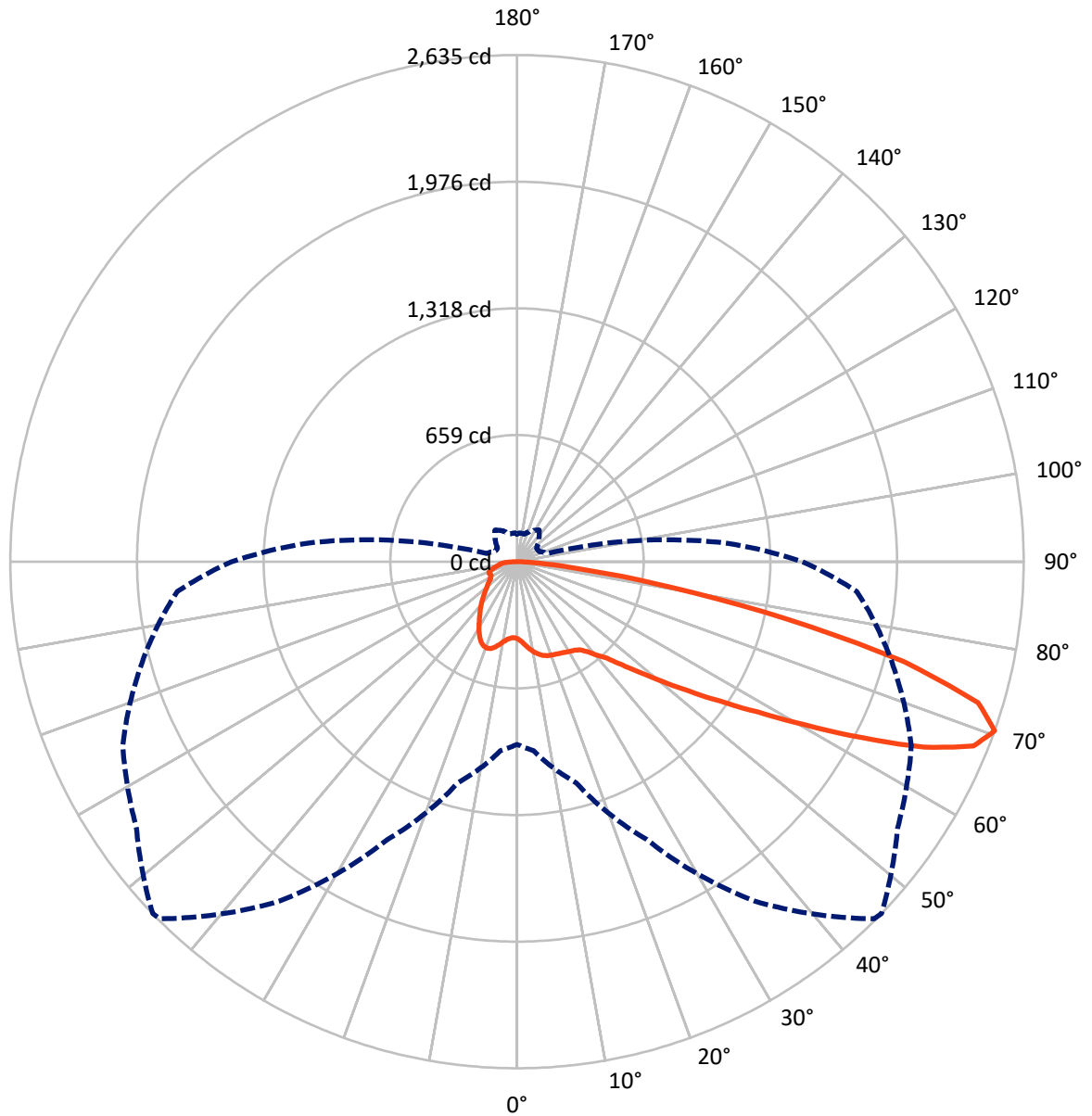
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5 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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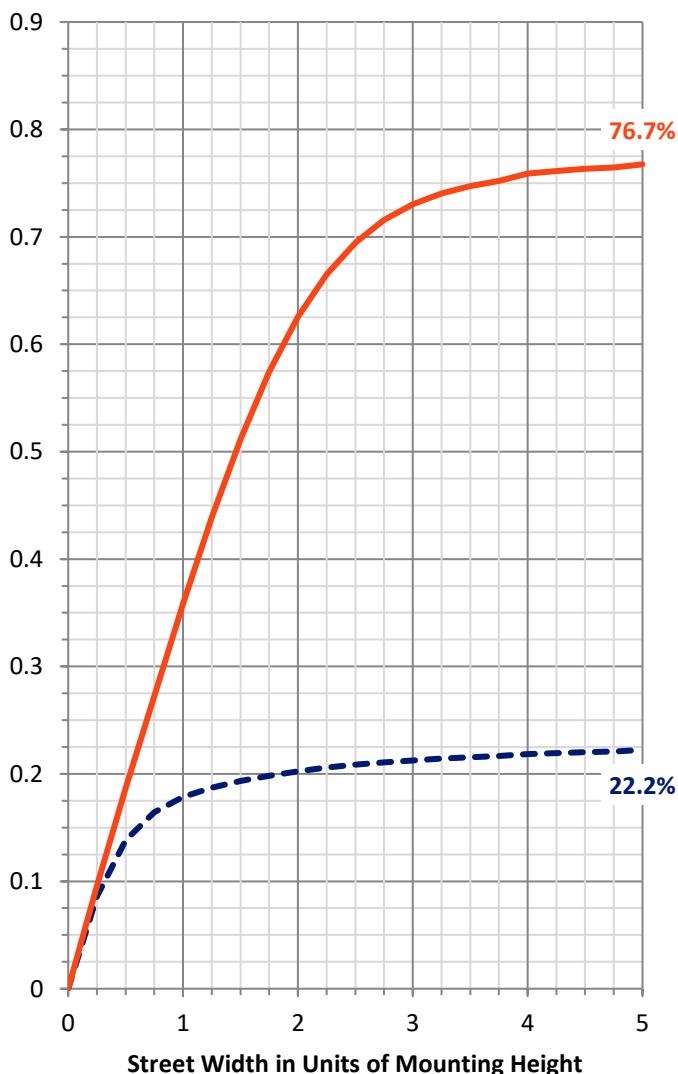
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	900.1	0.0	900.1
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	3026.9	0.0	3026.9
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	3927.0	0.0	3927.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.8	1.0
10°-20°	135.9	3.5
20°-30°	226.6	5.8
30°-40°	321.5	8.2
40°-50°	472.9	12.0
50°-60°	800.9	20.4
60°-70°	1136.9	29.0
70°-80°	690.7	17.6
80°-90°	100.8	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°	3927.0	100.0
0°-180°	3927.0	100.0

**Coefficient of Utilization**



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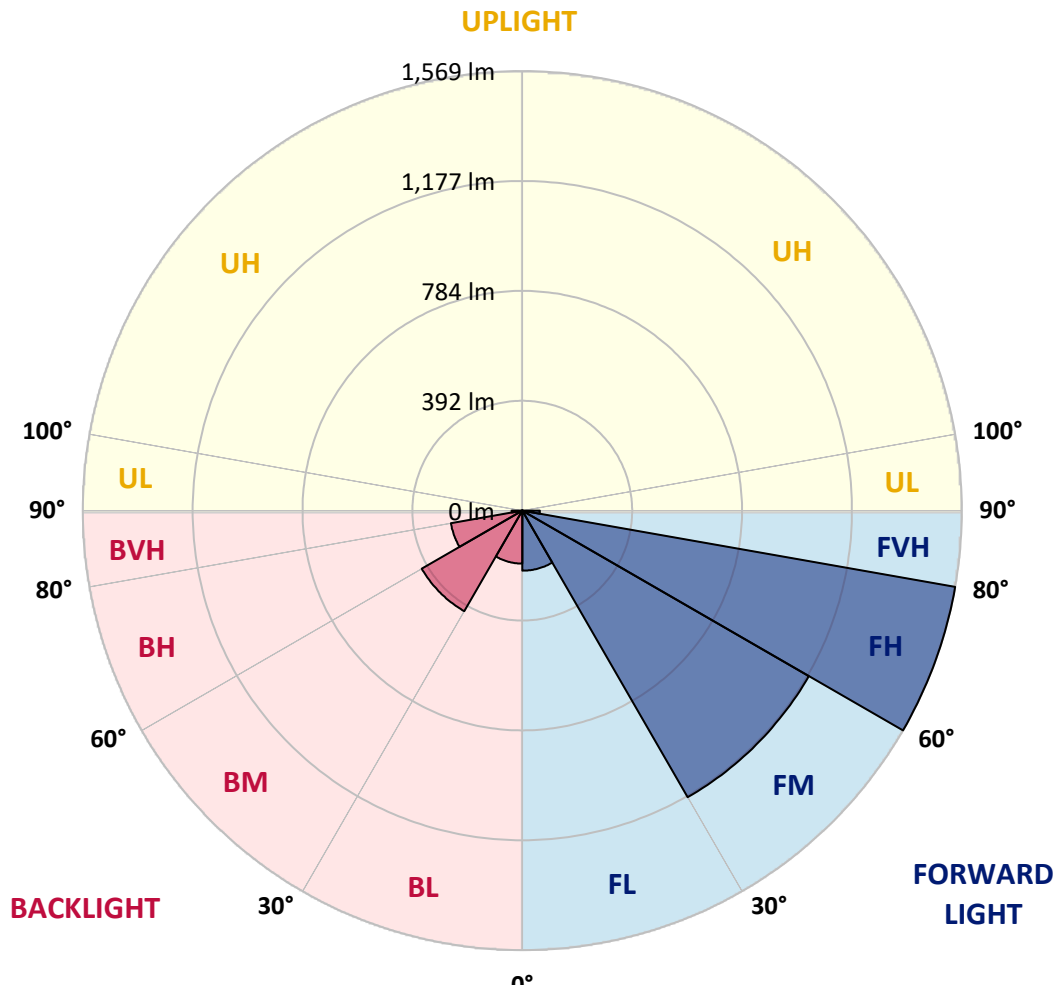
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	214.3	5.5			
FM (30°-60°)	1181.1	30.1			
FH (60°-80°)	1568.8	39.9			G1/1800
FVH (80°-90°)	62.8	1.6			G1/100
BL (0°-30°)	189.0	4.8	B1/500		
BM (30°-60°)	414.3	10.6	B1/1000		
BH (60°-80°)	258.8	6.6	B1/500		G1/500
BVH (80°-90°)	38.0	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1
2.5°	420.1	420.4	420.9	419.6	415.8	414.7	414.3	410.4	407.9	404.1	400.9
5°	453.7	454.0	453.2	449.4	441.1	434.9	434.4	425.5	417.4	408.8	402.4
7.5°	488.8	489.2	486.6	479.5	467.8	457.1	456.4	444.3	432.1	419.0	409.4
10°	519.8	518.2	514.0	504.1	490.3	477.1	476.6	463.9	449.8	434.1	421.2
12.5°	540.5	539.2	533.8	521.7	506.5	494.4	493.4	481.7	468.0	450.8	435.3
15°	551.9	552.9	545.6	531.9	517.1	506.9	506.0	497.7	485.4	468.1	450.3
17.5°	553.4	554.2	547.2	533.7	521.6	514.6	514.2	508.7	499.8	483.1	464.6
20°	544.8	545.4	539.6	528.4	520.5	518.3	518.2	515.8	509.2	494.4	476.4
22.5°	532.3	532.7	528.6	520.5	517.8	521.2	522.1	521.2	516.5	502.6	485.7
25°	529.2	529.0	524.7	516.5	518.8	525.9	527.1	527.5	524.3	512.2	497.5
27.5°	544.2	543.2	535.0	521.8	523.3	531.9	533.5	537.4	535.4	524.8	511.0
30°	587.3	585.7	568.9	542.3	535.0	539.4	541.5	547.6	548.0	539.2	528.8
32.5°	660.1	658.1	628.0	580.4	554.8	547.1	549.0	558.3	563.2	556.4	545.2
35°	752.2	749.9	710.4	645.3	587.8	561.8	563.1	570.5	580.4	570.8	556.0
37.5°	848.1	842.6	804.6	721.7	640.4	593.1	593.1	594.0	598.7	578.6	568.6
40°	943.6	938.1	903.7	811.5	708.4	642.4	639.3	618.5	614.7	597.4	594.0
42.5°	1032.3	1030.7	1010.4	912.9	788.2	690.9	686.6	651.3	652.1	641.3	641.5
45°	1126.6	1126.6	1110.1	1015.3	881.2	768.9	764.6	712.5	720.6	715.6	727.6
47.5°	1203.6	1206.0	1203.7	1122.0	989.4	867.9	860.1	797.5	820.1	837.1	871.9
50°	1282.2	1286.0	1286.4	1239.1	1120.2	985.6	976.8	910.2	960.6	1009.6	1078.0
52.5°	1396.3	1404.8	1371.1	1355.9	1280.4	1125.4	1116.7	1055.2	1139.4	1208.0	1325.9
55°	1502.1	1494.7	1470.6	1480.1	1451.8	1284.5	1277.9	1224.0	1338.5	1427.8	1580.9
57.5°	1559.3	1558.8	1583.0	1623.3	1636.8	1480.7	1475.2	1422.8	1563.1	1630.2	1820.2
60°	1626.5	1627.5	1687.4	1778.9	1834.3	1725.1	1722.6	1682.9	1781.2	1819.1	2007.9
62.5°	1636.0	1652.9	1756.1	1913.6	2019.2	2010.5	2015.9	1917.1	1976.4	1969.9	2148.1
65°	1527.8	1550.1	1736.9	1954.3	2203.1	2322.7	2327.7	2152.7	2130.2	2098.8	2198.2
67.5°	1306.0	1339.1	1542.0	1865.8	2263.7	2553.4	2560.4	2335.3	2257.9	2142.5	2077.6
70°	950.4	987.1	1191.4	1593.5	2155.6	2627.2	2635.2	2416.1	2262.8	2018.2	1773.6
72.5°	574.1	602.9	771.3	1173.1	1819.4	2492.8	2506.9	2313.7	2065.9	1709.5	1309.6
75°	252.1	270.9	372.9	676.0	1302.5	2062.5	2080.1	1980.4	1678.6	1242.3	774.1
77.5°	107.4	112.8	152.9	293.6	736.3	1409.4	1433.6	1447.0	1138.8	676.0	327.1
80°	66.9	69.1	86.5	132.9	344.6	791.6	817.6	851.4	565.5	248.5	114.2
82.5°	40.7	43.1	57.5	80.4	179.4	358.8	371.3	395.1	219.5	107.4	59.1
85°	24.5	26.2	35.2	50.8	102.1	141.1	141.0	155.9	103.3	69.1	31.2
87.5°	11.7	13.0	18.8	26.3	51.5	53.0	49.6	56.2	62.8	45.3	15.7
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°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1
2.5°	399.8	399.3	397.5	396.2	395.9	395.1	394.4	394.8	395.4	395.5	395.5
5°	399.7	398.2	395.9	395.0	396.2	397.8	399.8	402.5	404.1	405.3	406.1
7.5°	406.1	403.3	400.8	400.2	402.6	406.9	411.5	417.2	421.0	423.7	424.3
10°	416.9	413.4	410.8	411.4	415.7	421.9	428.3	435.6	441.5	445.1	445.4
12.5°	429.2	425.9	423.5	425.8	432.9	440.4	447.1	453.4	458.8	462.4	462.4
15°	443.5	441.1	438.3	443.5	453.2	459.9	462.7	465.8	468.8	471.4	470.9
17.5°	457.2	454.9	453.4	459.6	469.7	472.8	470.9	468.6	468.6	470.1	470.4
20°	469.0	467.0	468.0	474.0	479.2	476.0	469.0	461.8	458.8	459.6	460.4
22.5°	479.4	478.4	481.3	484.1	480.3	469.0	456.1	446.3	442.7	442.4	442.7
25°	491.5	491.3	494.8	489.7	473.1	452.2	434.9	425.4	423.3	424.9	427.6
27.5°	506.5	508.0	509.7	491.1	458.3	426.8	409.2	402.6	404.7	408.6	411.1
30°	525.7	529.8	526.0	487.7	437.0	397.8	381.0	379.1	384.6	390.1	392.8
32.5°	544.4	550.7	541.6	479.0	409.6	367.0	354.0	353.5	360.2	365.5	369.3
35°	559.5	572.0	553.3	461.6	377.9	338.7	329.1	325.5	327.9	334.2	338.5
37.5°	579.1	599.9	561.4	435.2	343.5	315.3	304.1	295.8	293.6	296.2	298.3
40°	615.0	642.5	565.1	398.2	309.9	291.9	280.6	268.4	259.9	253.7	253.9
42.5°	673.6	698.0	562.7	353.3	278.9	269.1	256.3	242.2	228.5	214.5	213.4
45°	768.7	780.5	555.4	305.7	251.6	245.1	233.2	219.1	200.8	184.9	183.4
47.5°	921.0	894.8	544.2	264.2	227.5	224.8	213.8	197.6	178.2	165.4	164.4
50°	1128.6	1059.7	538.6	231.2	206.3	207.1	198.1	180.9	162.6	153.2	152.1
52.5°	1377.0	1251.7	549.3	205.6	189.2	192.0	185.3	169.2	153.9	146.5	145.4
55°	1634.6	1450.6	560.7	187.1	173.1	178.6	176.3	163.0	149.2	142.3	141.4
57.5°	1855.1	1599.1	537.8	172.0	158.7	167.3	169.3	159.1	146.8	140.6	139.5
60°	1994.0	1658.9	477.9	157.9	147.3	158.3	165.3	158.0	147.7	147.2	146.4
62.5°	2059.8	1653.7	388.0	146.8	140.2	154.4	168.3	164.1	158.4	163.3	163.7
65°	2030.3	1574.7	288.9	139.4	135.1	155.9	177.1	175.5	161.5	166.4	167.0
67.5°	1835.7	1386.1	214.0	132.9	129.4	160.1	193.3	179.3	155.5	159.0	156.8
70°	1483.7	1098.9	165.0	125.7	123.6	159.5	200.5	177.0	148.9	149.7	143.9
72.5°	1023.1	749.4	134.3	118.9	115.3	145.4	195.4	171.3	143.4	137.2	129.6
75°	556.4	402.2	114.1	111.9	100.7	127.7	186.0	167.3	138.4	130.2	125.9
77.5°	218.9	166.9	99.0	102.4	88.0	112.8	175.5	159.7	131.6	120.8	118.7
80°	89.4	85.2	82.1	88.6	75.7	98.6	162.9	150.7	123.4	112.1	107.8
82.5°	50.7	53.0	63.8	69.9	61.4	90.8	156.8	143.4	113.6	100.4	95.3
85°	25.9	31.0	44.5	50.1	45.2	77.3	144.5	125.5	91.1	76.9	77.3
87.5°	12.5	17.3	28.1	31.4	29.3	55.9	107.9	91.0	71.0	56.2	54.4
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



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