

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: P451279

Luminaire Tested: **GALN-SA2A-827-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451279  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2A-827-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6749 lumens  
Efficiency: N/A  
Efficacy: 107.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G3

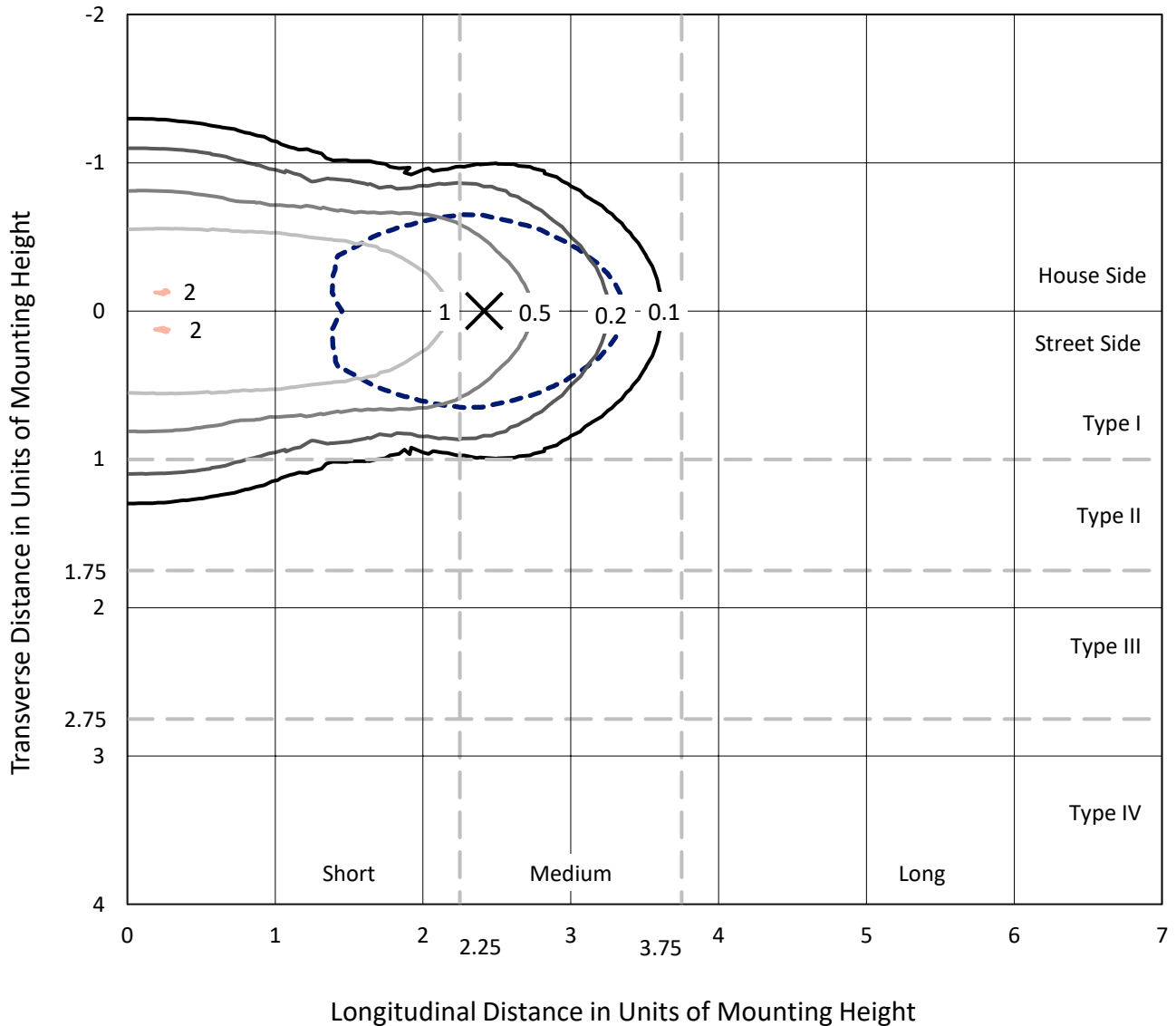
Input Watts (W): 63  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

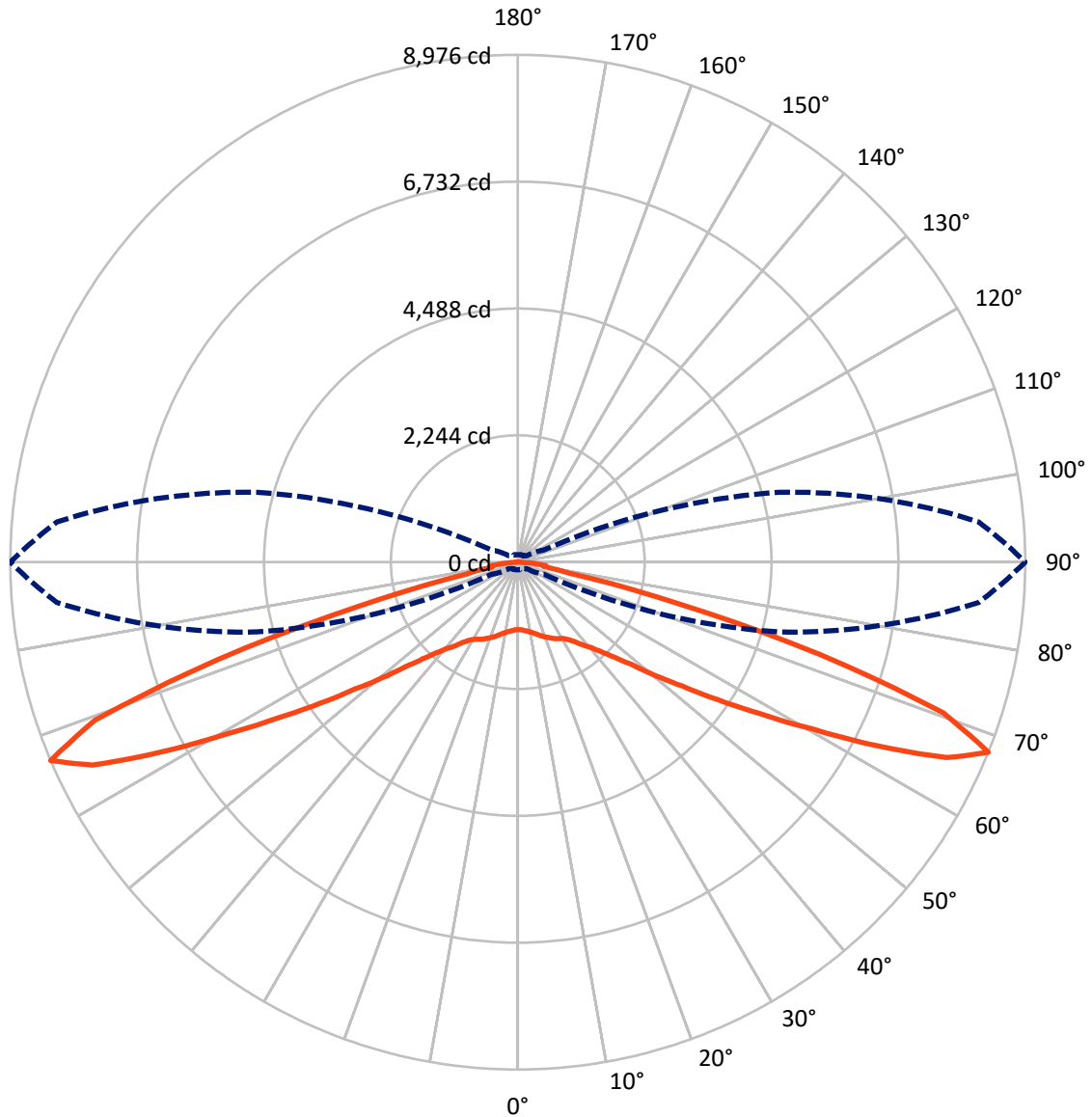
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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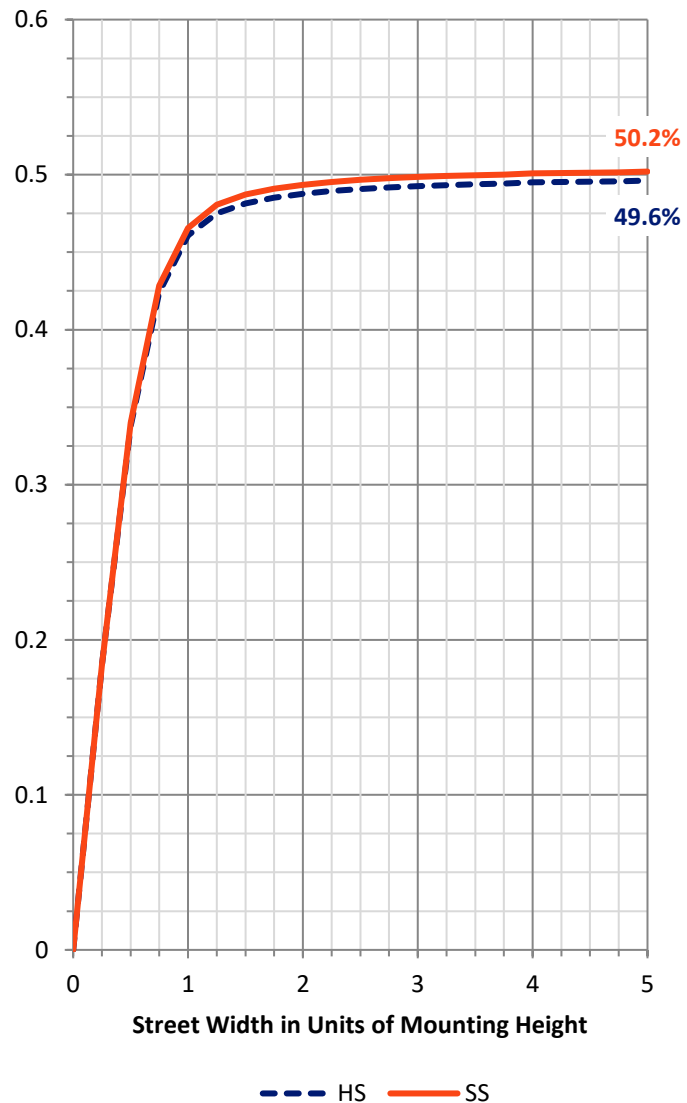
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3374.5	0.0	3374.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3374.5	0.0	3374.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6749.0	0.0	6749.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.1	1.8
10°-20°	381.1	5.6
20°-30°	637.9	9.5
30°-40°	864.2	12.8
40°-50°	1094.6	16.2
50°-60°	1367.5	20.3
60°-70°	1607.4	23.8
70°-80°	614.9	9.1
80°-90°	62.3	0.9
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°	6749.0	100.0
0°-180°	6749.0	100.0



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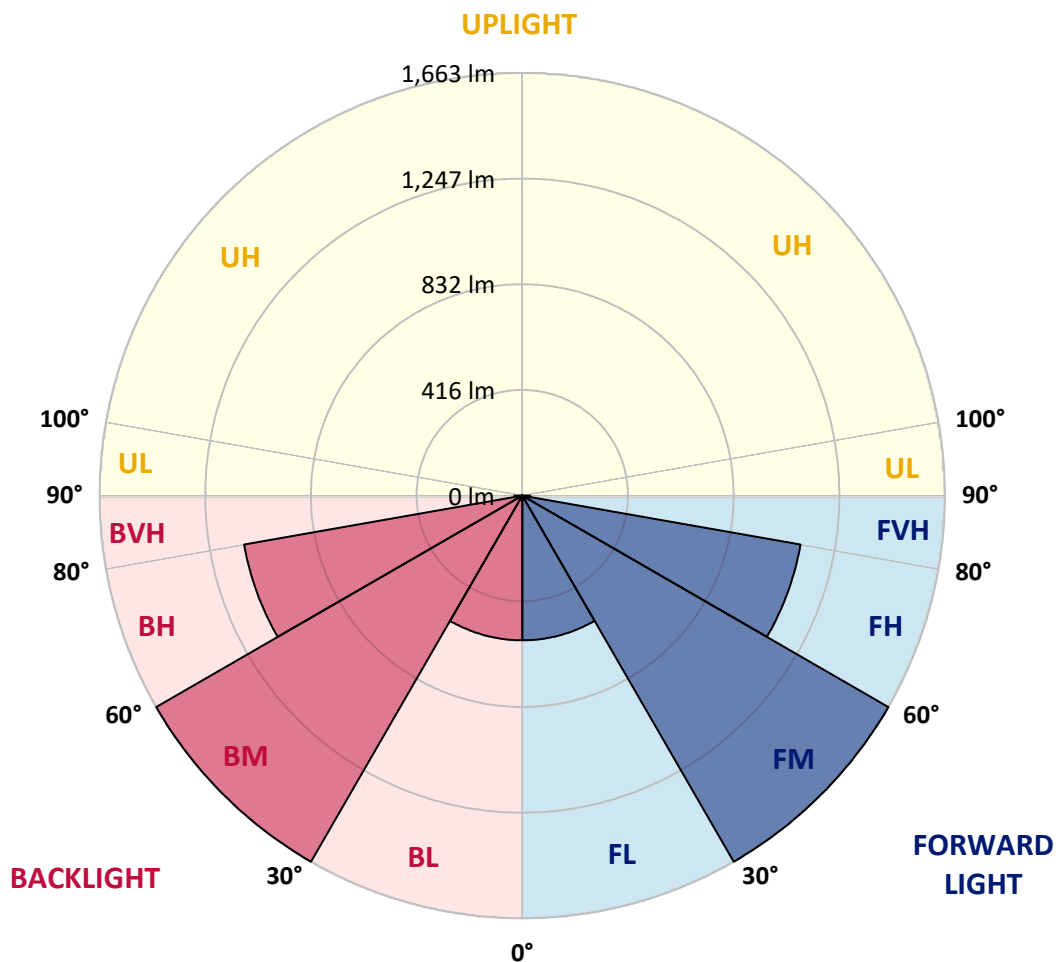
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.1	8.4			
FM (30°-60°)	1663.1	24.6			
FH (60°-80°)	1111.2	16.5			G1/1800
FVH (80°-90°)	31.1	0.5			G1/100
BL (0°-30°)	569.1	8.4	B2/1000		
BM (30°-60°)	1663.1	24.6	B2/2500		
BH (60°-80°)	1111.2	16.5	B3/2500		G3/2500
BVH (80°-90°)	31.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8	1194.8
2.5°	1210.1	1209.4	1209.7	1209.4	1210.5	1209.7	1205.2	1201.5	1198.5	1198.9	1197.8
5°	1235.9	1236.3	1236.6	1234.8	1237.4	1235.9	1228.8	1222.8	1216.8	1214.6	1213.8
7.5°	1257.2	1259.1	1260.2	1262.1	1266.5	1266.5	1262.8	1254.2	1241.1	1233.7	1233.3
10°	1278.5	1280.0	1283.4	1289.3	1296.8	1303.9	1302.4	1290.8	1274.0	1261.3	1258.3
12.5°	1286.0	1287.8	1299.1	1316.2	1333.1	1346.9	1346.9	1337.5	1315.9	1296.4	1290.8
15°	1259.8	1263.2	1283.4	1320.0	1364.1	1394.3	1401.1	1388.0	1364.8	1334.9	1328.2
17.5°	1207.9	1216.1	1245.6	1299.8	1373.0	1435.8	1455.3	1448.9	1419.0	1380.9	1373.0
20°	1152.2	1161.1	1192.5	1264.3	1365.6	1460.1	1516.6	1518.1	1481.1	1425.7	1414.2
22.5°	1090.9	1097.6	1138.0	1222.1	1343.2	1465.7	1569.3	1595.0	1545.0	1470.6	1454.1
25°	1022.1	1029.6	1071.8	1162.6	1300.9	1459.4	1617.5	1674.3	1611.9	1518.4	1497.5
27.5°	956.3	959.3	1004.6	1096.9	1245.2	1442.9	1653.0	1747.1	1685.9	1558.0	1531.5
30°	893.2	900.3	940.3	1031.5	1181.3	1410.8	1683.6	1830.1	1765.5	1599.5	1565.5
32.5°	826.3	834.9	878.2	970.6	1117.4	1362.6	1702.3	1920.9	1876.4	1666.8	1630.5
35°	762.0	767.6	811.3	901.0	1055.0	1306.5	1705.7	2023.3	2019.6	1768.8	1720.6
37.5°	696.2	704.5	748.6	834.5	988.9	1247.1	1688.8	2132.1	2192.2	1910.5	1858.5
40°	633.1	640.2	683.5	770.2	913.7	1174.6	1648.9	2231.5	2393.7	2056.2	1982.6
42.5°	564.3	566.2	613.6	701.8	840.1	1090.5	1591.3	2320.1	2618.3	2251.7	2160.1
45°	486.2	491.1	535.2	621.9	755.7	996.3	1513.2	2393.3	2903.1	2522.6	2397.8
47.5°	408.1	412.2	452.6	538.2	663.4	888.3	1392.9	2457.6	3195.3	2866.8	2703.1
50°	331.9	334.1	367.0	442.9	559.5	774.7	1243.7	2478.1	3525.7	3354.1	3145.2
52.5°	262.4	265.7	290.8	350.2	448.5	640.6	1082.7	2427.3	3911.4	3931.9	3637.4
55°	212.6	213.8	232.5	276.2	350.5	500.0	888.3	2285.7	4326.2	4672.2	4296.7
57.5°	183.1	183.9	194.3	218.6	269.8	377.1	689.1	2017.7	4698.8	5539.7	5056.8
60°	166.3	166.7	172.7	186.9	213.8	289.3	493.7	1639.5	5066.5	6505.0	6001.6
62.5°	155.8	155.8	160.0	167.8	180.9	222.0	357.7	1182.8	5318.4	7484.5	7166.1
65°	145.8	145.8	148.7	154.3	161.4	181.6	264.2	771.4	5312.1	8197.9	8337.3
67.5°	134.2	134.2	136.4	142.0	146.1	156.2	204.1	505.3	4771.7	8182.2	8976.4
70°	120.3	120.3	123.3	128.2	131.5	137.9	161.1	345.7	3505.5	6986.3	7983.0
72.5°	106.5	106.9	108.8	113.6	116.2	120.0	133.8	242.2	2150.4	4757.1	5581.9
75°	91.2	91.9	93.8	98.7	100.9	102.4	112.9	172.7	1087.9	2564.8	2920.2
77.5°	73.6	75.1	76.2	81.5	83.0	85.2	93.1	124.8	477.6	921.6	929.8
80°	53.8	55.7	59.0	63.9	65.0	66.5	71.0	88.6	216.4	420.8	457.1
82.5°	39.6	42.2	38.1	44.5	44.5	42.6	50.1	59.4	99.4	416.7	498.5
85°	21.7	22.0	19.8	22.8	24.3	23.9	26.5	29.2	48.2	278.0	286.6
87.5°	5.2	5.6	6.0	7.1	8.6	8.6	9.3	8.2	15.7	90.1	51.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)