

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: P450800

Luminaire Tested: **GALN-SA1C-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5458 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B2 - U0 - G1

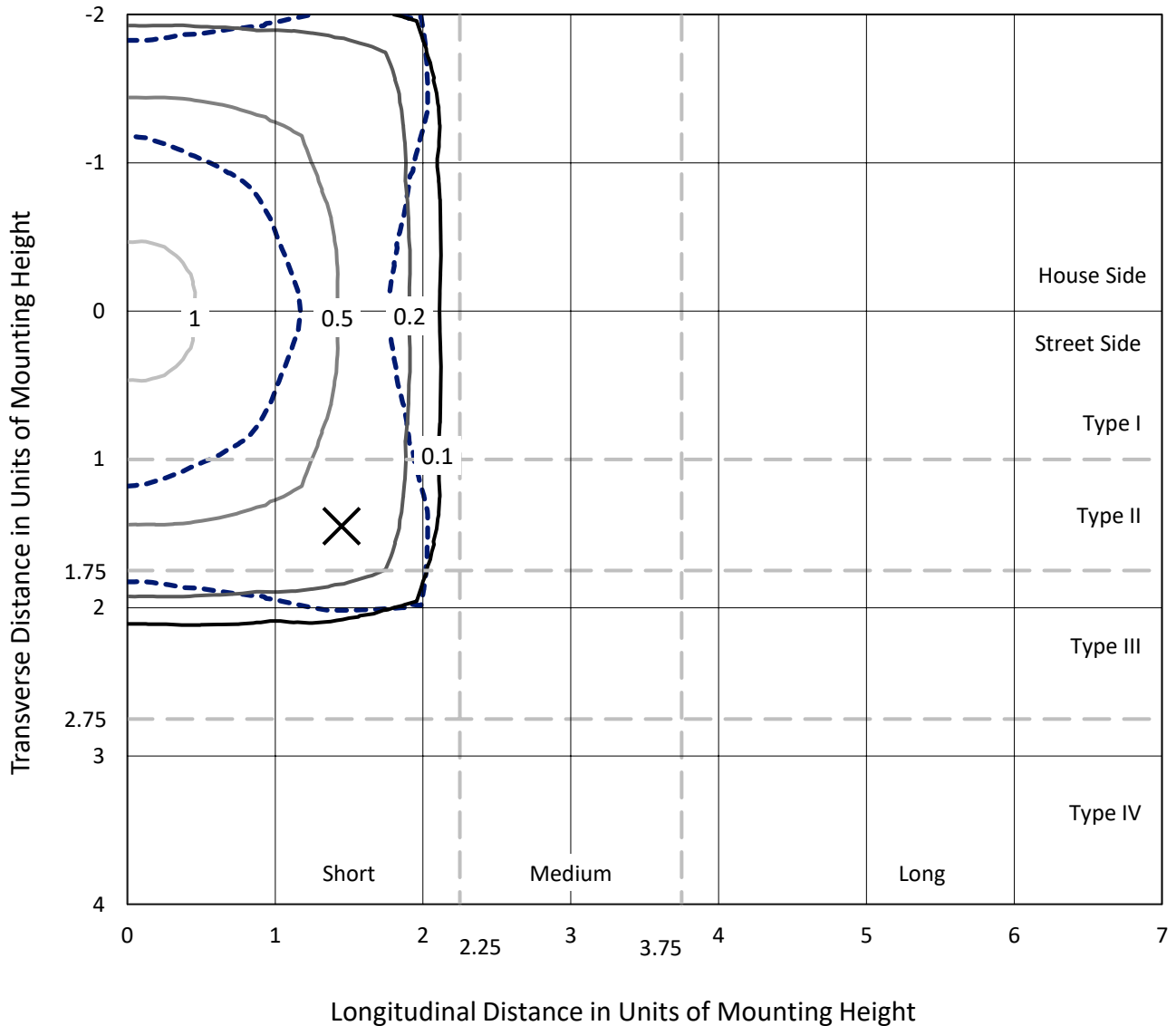
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

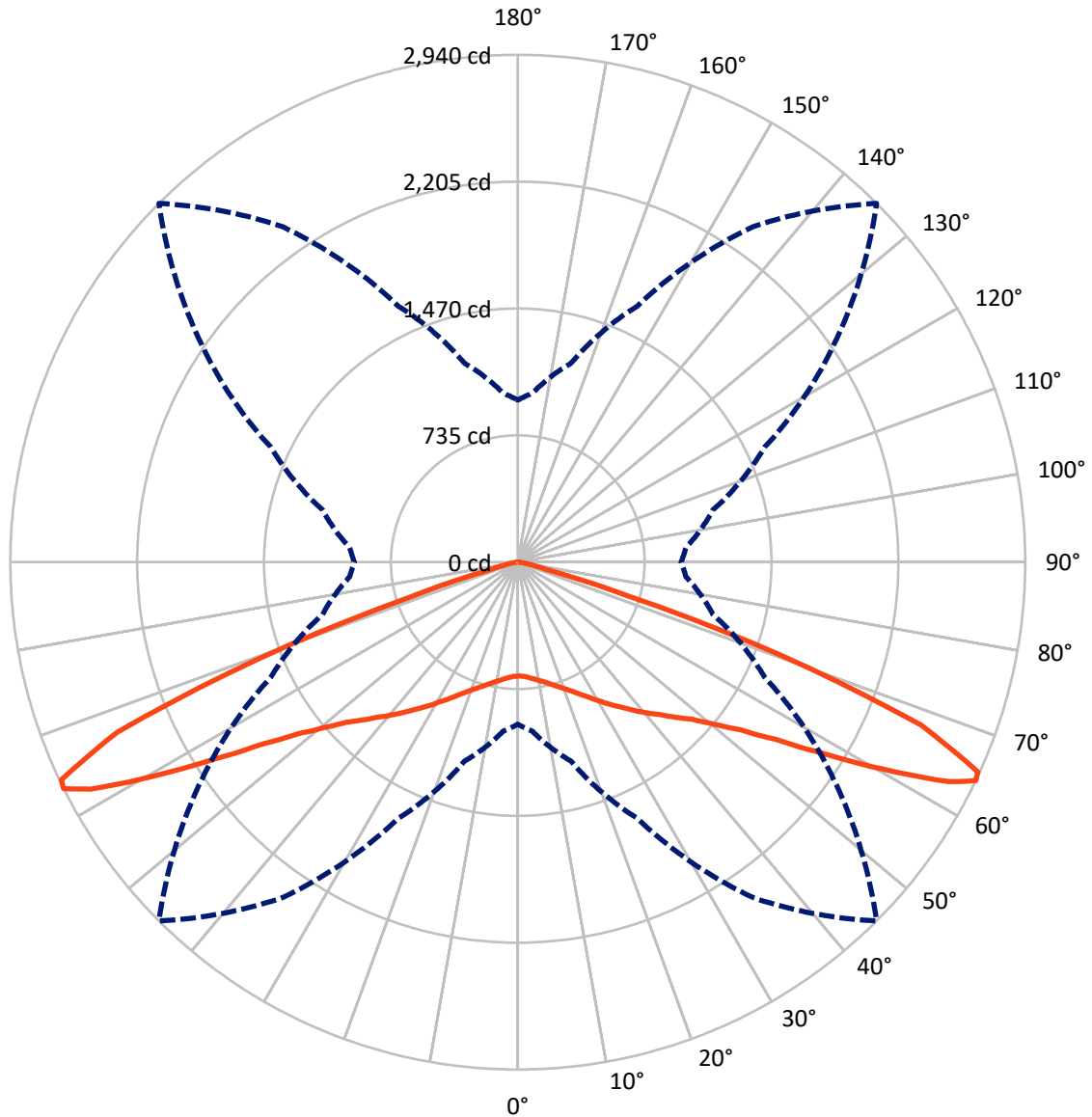
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2729.0	0.0	2729.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2729.0	0.0	2729.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5458.0	0.0	5458.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.8	1.2
10°-20°	209.1	3.8
20°-30°	395.1	7.2
30°-40°	654.3	12.0
40°-50°	1021.4	18.7
50°-60°	1579.1	28.9
60°-70°	1361.6	24.9
70°-80°	154.3	2.8
80°-90°	18.5	0.3
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°	5458.0	100.0
0°-180°	5458.0	100.0

**Coefficient of Utilization**



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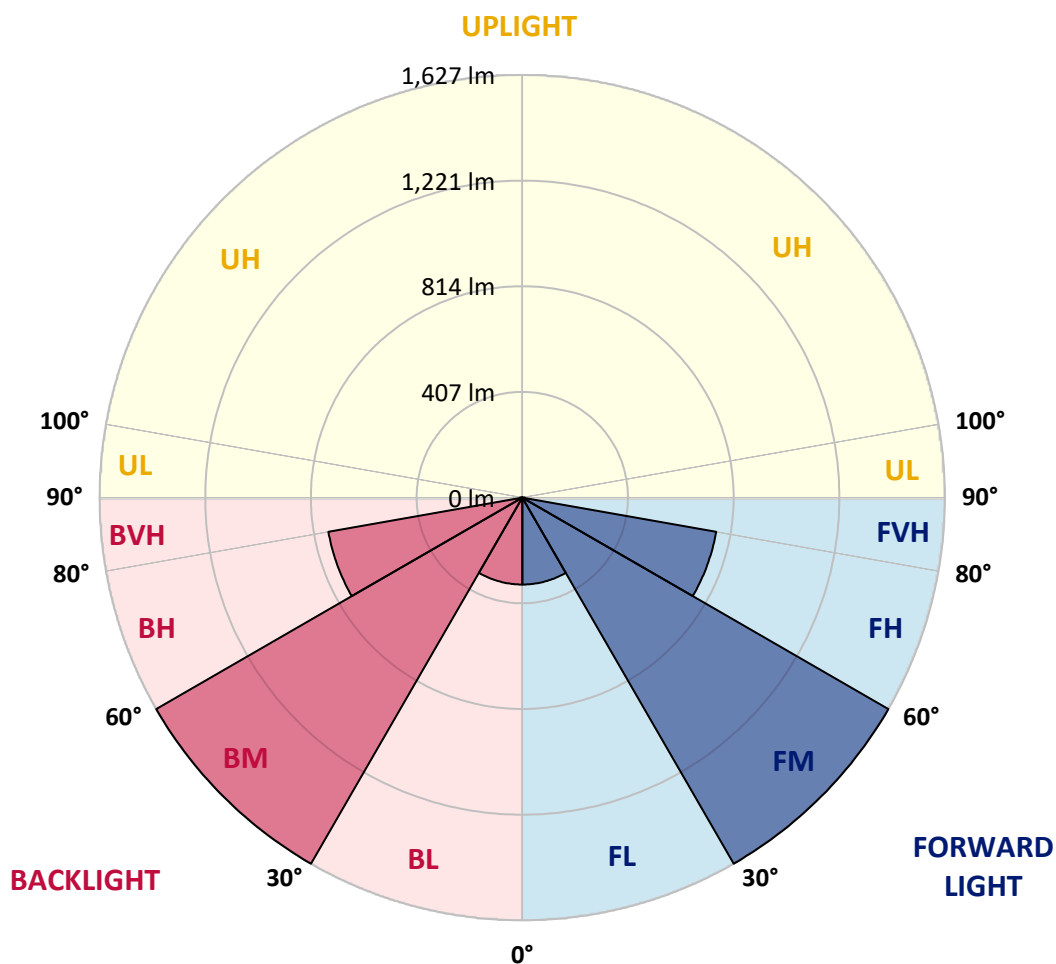
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	334.5	6.1			
FM (30°-60°)	1627.3	29.8			
FH (60°-80°)	758.0	13.9			G1/1800
FVH (80°-90°)	9.2	0.2			G0/10
BL (0°-30°)	334.5	6.1	B1/500		
BM (30°-60°)	1627.3	29.8	B2/2500		
BH (60°-80°)	758.0	13.9	B2/1000		G1/1800
BVH (80°-90°)	9.2	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7	659.7
2.5°	662.3	663.7	662.6	662.3	662.0	662.0	662.0	662.3	663.4	664.3	663.7
5°	670.7	671.8	671.3	671.0	670.7	671.0	670.4	670.1	671.0	671.0	670.7
7.5°	681.1	682.5	682.0	682.5	682.8	683.1	681.7	680.5	680.2	681.1	680.5
10°	695.2	696.4	696.7	697.0	697.6	697.3	695.5	693.5	693.2	692.9	692.6
12.5°	711.1	712.0	712.3	713.5	714.3	714.6	712.6	710.9	708.0	708.5	707.4
15°	729.1	730.8	730.5	732.3	734.6	735.1	733.1	730.2	727.6	726.2	725.3
17.5°	751.0	752.2	751.6	753.4	756.2	757.7	756.0	752.2	749.6	746.4	744.7
20°	777.1	779.1	779.7	779.7	782.3	783.7	781.1	780.0	775.9	773.6	772.1
22.5°	806.5	807.4	809.1	810.9	813.5	812.9	812.0	810.3	806.5	804.5	802.2
25°	839.8	840.7	845.0	848.8	849.6	849.0	847.9	847.0	843.5	838.9	837.2
27.5°	878.5	880.3	886.0	889.5	889.5	889.8	887.5	890.4	882.9	877.4	876.8
30°	927.1	928.3	933.2	936.6	934.9	933.5	932.9	935.8	927.7	917.8	915.5
32.5°	975.1	979.1	983.5	991.0	984.9	982.3	981.7	983.8	974.5	963.5	960.3
35°	1026.5	1029.4	1037.5	1043.9	1038.4	1032.3	1034.9	1041.3	1030.3	1015.6	1015.0
37.5°	1083.5	1086.1	1096.5	1103.1	1099.1	1088.7	1093.0	1100.5	1089.6	1071.3	1067.6
40°	1142.8	1148.2	1161.3	1168.2	1161.5	1147.7	1155.8	1163.9	1154.0	1132.9	1124.5
42.5°	1209.2	1217.9	1236.7	1240.2	1227.5	1208.7	1222.8	1235.8	1228.9	1204.6	1201.4
45°	1287.0	1292.2	1315.3	1322.9	1305.2	1281.8	1299.4	1323.1	1317.9	1289.9	1283.8
47.5°	1374.0	1378.9	1402.9	1414.2	1391.9	1360.4	1392.2	1423.2	1420.0	1389.9	1387.0
50°	1476.9	1478.1	1511.3	1524.1	1501.8	1474.6	1503.0	1541.4	1528.7	1490.2	1489.7
52.5°	1589.7	1591.1	1633.0	1657.6	1645.2	1614.5	1648.1	1671.5	1639.1	1588.8	1585.1
55°	1687.4	1694.6	1751.9	1817.2	1834.2	1812.0	1822.1	1811.1	1731.3	1660.8	1649.8
57.5°	1727.3	1741.4	1828.5	1950.5	2061.5	2094.4	2016.4	1911.7	1768.0	1668.3	1657.6
60°	1629.9	1645.2	1780.2	2011.7	2295.0	2438.1	2218.7	1928.8	1684.5	1544.3	1527.5
62.5°	1305.2	1309.6	1508.2	1867.5	2431.2	2801.8	2304.0	1783.4	1441.4	1250.9	1244.2
64°	939.2	983.8	1194.2	1637.4	2371.7	2940.3	2254.9	1579.6	1170.8	978.0	946.8
65°	702.5	714.6	962.7	1398.3	2266.7	2929.9	2159.5	1384.7	969.6	748.4	713.7
67.5°	265.4	266.8	355.3	697.0	1613.7	2520.8	1648.1	753.4	408.5	295.4	284.7
70°	110.1	112.2	130.4	234.4	693.5	1618.6	794.7	271.7	149.5	121.1	119.4
72.5°	80.7	81.8	87.3	104.1	213.3	664.6	261.3	115.3	87.6	78.3	77.5
75°	63.3	63.9	67.9	76.6	99.4	184.1	108.7	79.2	66.8	60.1	59.6
77.5°	48.3	49.7	52.6	58.4	66.8	87.3	72.0	59.3	51.5	46.0	45.1
80°	33.2	35.0	40.5	42.8	44.8	56.7	49.1	44.8	40.2	33.5	31.5
82.5°	20.5	21.7	27.2	29.2	28.3	31.8	31.5	32.1	28.6	20.8	19.4
85°	10.7	11.3	14.7	15.3	14.2	13.0	16.2	18.8	17.6	11.9	11.6
87.5°	2.3	2.6	3.2	2.9	3.2	3.2	4.0	6.1	6.4	4.0	3.8
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)