

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: P452425

Luminaire Tested: **GALN-SA3B-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA3B-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13069 lumens  
Efficiency: N/A  
Efficacy: 108.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

Input Watts (W): 121  
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

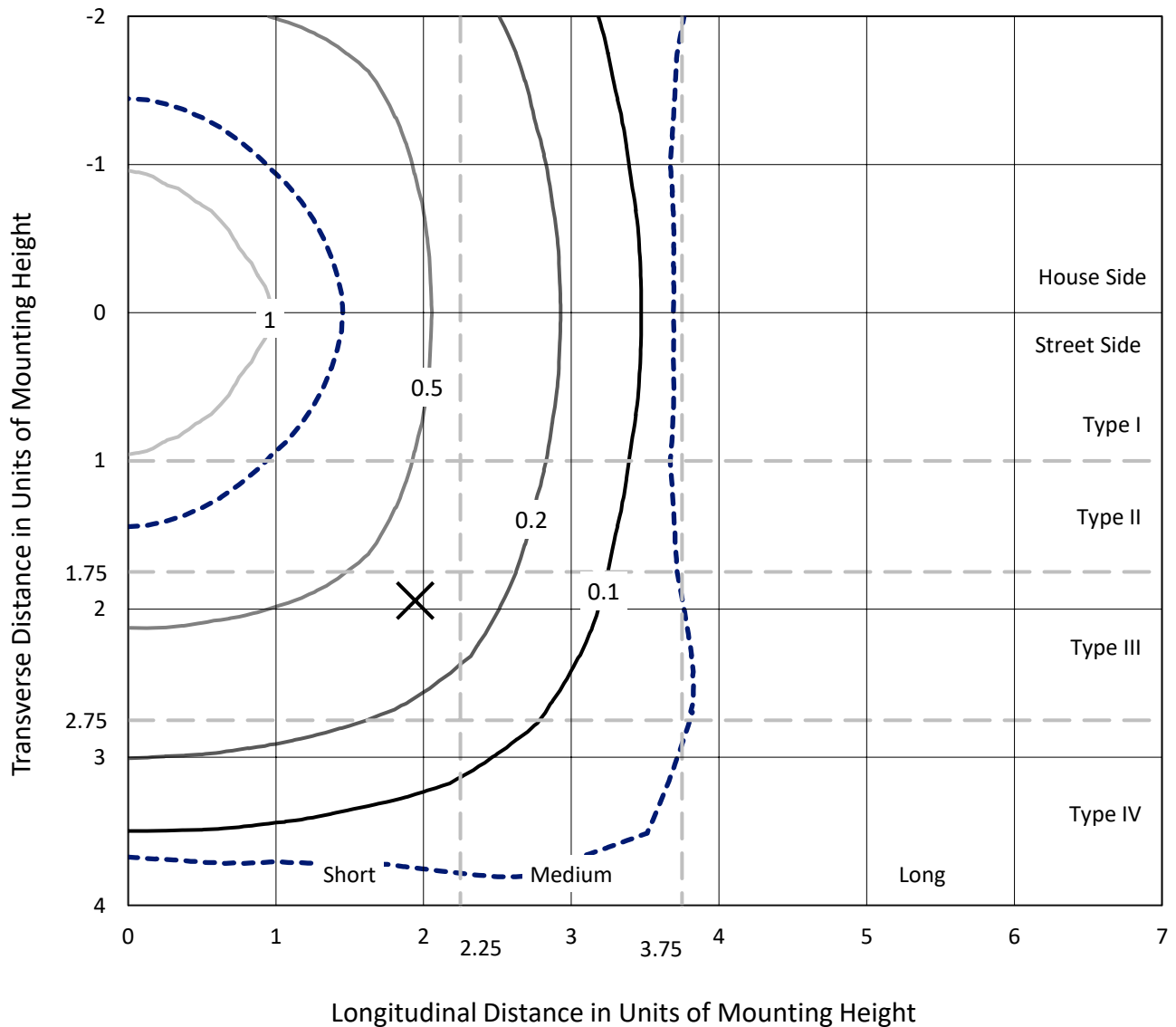




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### Iso-Footcandle Lines of Horizontal Illumination

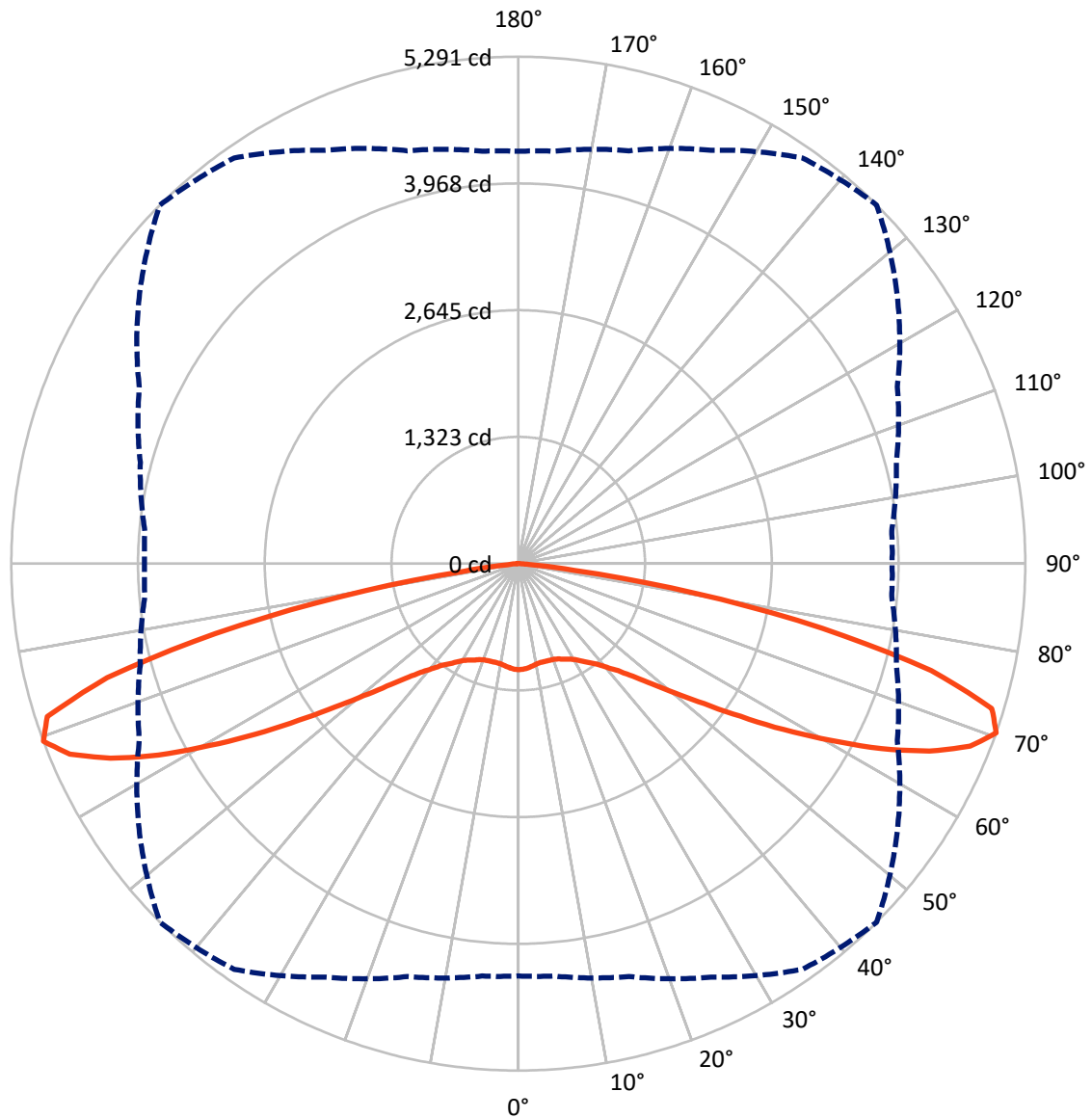
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6534.5	0.0	6534.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6534.5	0.0	6534.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13069.0	0.0	13069.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.5	0.8
10°-20°	302.9	2.3
20°-30°	516.1	3.9
30°-40°	800.0	6.1
40°-50°	1346.5	10.3
50°-60°	2449.8	18.7
60°-70°	4147.5	31.7
70°-80°	3210.3	24.6
80°-90°	192.4	1.5
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°	13069.0	100.0
0°-180°	13069.0	100.0



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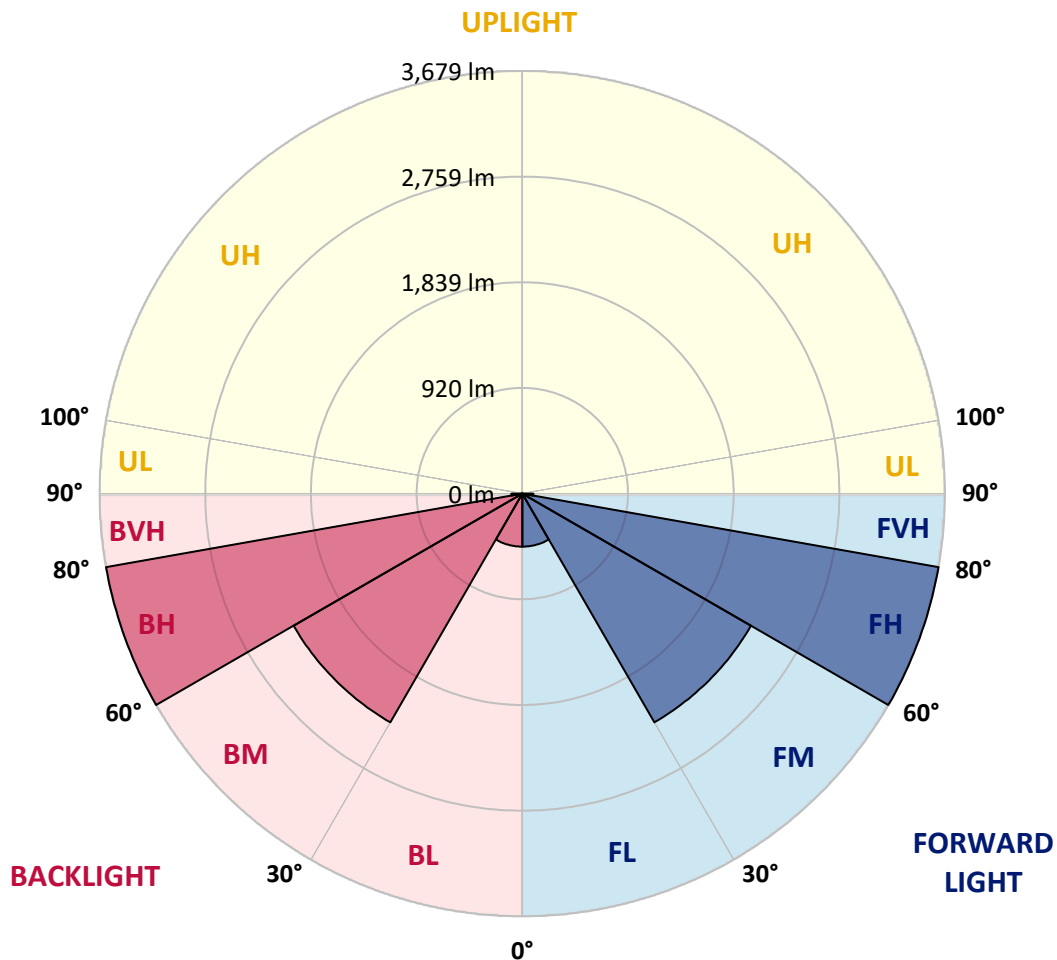
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	461.3	3.5			
FM (30°-60°)	2298.1	17.6			
FH (60°-80°)	3678.9	28.1			G2/5000
FVH (80°-90°)	96.2	0.7			G1/100
BL (0°-30°)	461.3	3.5	B1/500		
BM (30°-60°)	2298.1	17.6	B2/2500		
BH (60°-80°)	3678.9	28.1	B4/5000		G2/5000
BVH (80°-90°)	96.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5	1106.5
2.5°	1103.7	1104.4	1104.4	1103.0	1102.3	1102.3	1101.6	1101.6	1103.7	1104.4	1105.1
5°	1094.0	1094.0	1094.0	1093.3	1092.0	1092.0	1090.6	1090.6	1091.3	1093.3	1092.0
7.5°	1080.9	1082.3	1082.3	1079.5	1077.5	1077.5	1076.8	1077.5	1078.2	1080.2	1079.5
10°	1076.8	1077.5	1074.0	1069.2	1065.7	1063.7	1064.3	1065.7	1069.2	1070.6	1071.2
12.5°	1079.5	1079.5	1073.3	1066.4	1060.2	1057.4	1056.8	1061.6	1067.8	1071.9	1073.3
15°	1083.0	1081.6	1074.0	1065.0	1058.8	1058.1	1057.4	1060.9	1069.9	1078.2	1078.8
17.5°	1085.1	1084.4	1074.7	1063.7	1060.2	1060.2	1059.5	1062.3	1071.9	1082.3	1083.0
20°	1092.0	1089.9	1078.8	1067.1	1064.3	1065.7	1063.7	1067.1	1077.5	1089.9	1092.6
22.5°	1105.8	1103.7	1092.6	1080.9	1079.5	1079.5	1078.8	1082.3	1093.3	1106.5	1108.5
25°	1122.3	1120.3	1109.9	1101.6	1103.0	1105.8	1104.4	1105.1	1114.0	1125.1	1128.5
27.5°	1144.4	1141.0	1132.0	1125.1	1129.2	1129.2	1129.2	1128.5	1134.1	1144.4	1147.9
30°	1171.3	1170.0	1160.3	1159.6	1163.1	1159.6	1159.6	1160.3	1161.0	1170.6	1174.1
32.5°	1206.5	1203.8	1198.9	1197.6	1207.2	1210.0	1200.3	1191.4	1196.2	1205.8	1207.9
35°	1264.5	1260.4	1253.5	1245.9	1253.5	1266.6	1245.9	1239.0	1251.4	1264.5	1265.9
37.5°	1343.2	1341.1	1330.1	1316.3	1315.6	1329.4	1308.0	1307.3	1330.8	1346.7	1348.7
40°	1441.9	1444.0	1430.2	1417.1	1410.2	1421.2	1404.6	1410.8	1433.6	1451.6	1450.2
42.5°	1580.6	1573.1	1551.7	1539.2	1531.6	1527.5	1523.4	1533.0	1558.6	1577.9	1593.1
45°	1742.8	1740.1	1713.2	1698.0	1681.4	1675.2	1673.8	1691.1	1722.1	1745.6	1747.7
47.5°	1926.5	1920.2	1903.0	1887.1	1880.9	1873.3	1866.4	1879.5	1910.6	1927.1	1932.0
50°	2115.6	2117.0	2117.0	2114.2	2120.4	2121.8	2103.2	2108.0	2125.2	2123.9	2122.5
52.5°	2331.6	2339.2	2375.1	2378.6	2408.2	2428.3	2394.4	2374.4	2368.2	2330.9	2333.7
55°	2585.6	2592.5	2646.4	2700.2	2780.3	2814.1	2743.0	2680.9	2636.7	2580.1	2582.9
57.5°	2902.4	2905.9	2957.0	3060.5	3187.5	3266.9	3142.0	3019.1	2929.4	2875.5	2854.1
60°	3243.4	3246.9	3321.4	3447.7	3645.1	3741.8	3587.2	3386.3	3273.1	3191.0	3196.5
62.5°	3652.7	3666.5	3733.5	3907.4	4146.9	4255.3	4050.3	3781.8	3628.6	3526.4	3530.6
65°	4091.0	4114.5	4187.7	4378.9	4599.7	4716.4	4465.1	4155.2	3964.7	3839.8	3852.9
67.5°	4375.4	4396.1	4501.7	4712.9	4988.3	5085.0	4760.6	4399.6	4161.4	4012.4	3984.7
70°	4302.9	4320.2	4461.0	4760.6	5168.5	5290.7	4831.0	4363.7	4083.4	3911.6	3900.5
72.5°	3798.4	3762.5	3968.2	4398.2	4962.8	5167.8	4609.4	3985.4	3632.7	3456.0	3435.3
75°	2517.3	2595.3	2899.0	3405.6	4198.7	4452.7	3934.4	3199.9	2756.1	2609.1	2586.3
77.5°	841.4	901.5	1171.3	1930.6	2862.4	3244.1	2866.6	2092.8	1480.6	1192.7	1198.3
80°	222.9	220.2	285.1	530.8	1236.9	1878.8	1439.8	708.9	387.9	280.9	266.4
82.5°	80.1	89.7	115.3	147.0	327.9	583.9	412.1	198.8	145.6	107.7	104.2
85°	35.2	34.5	49.7	58.7	82.1	109.1	96.6	84.2	73.9	49.0	45.6
87.5°	7.6	7.6	11.7	9.0	14.5	14.5	17.9	21.4	22.1	14.5	11.7
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)