

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: P451727

Luminaire Tested: **GALN-SA2C-827-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-827-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10900 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

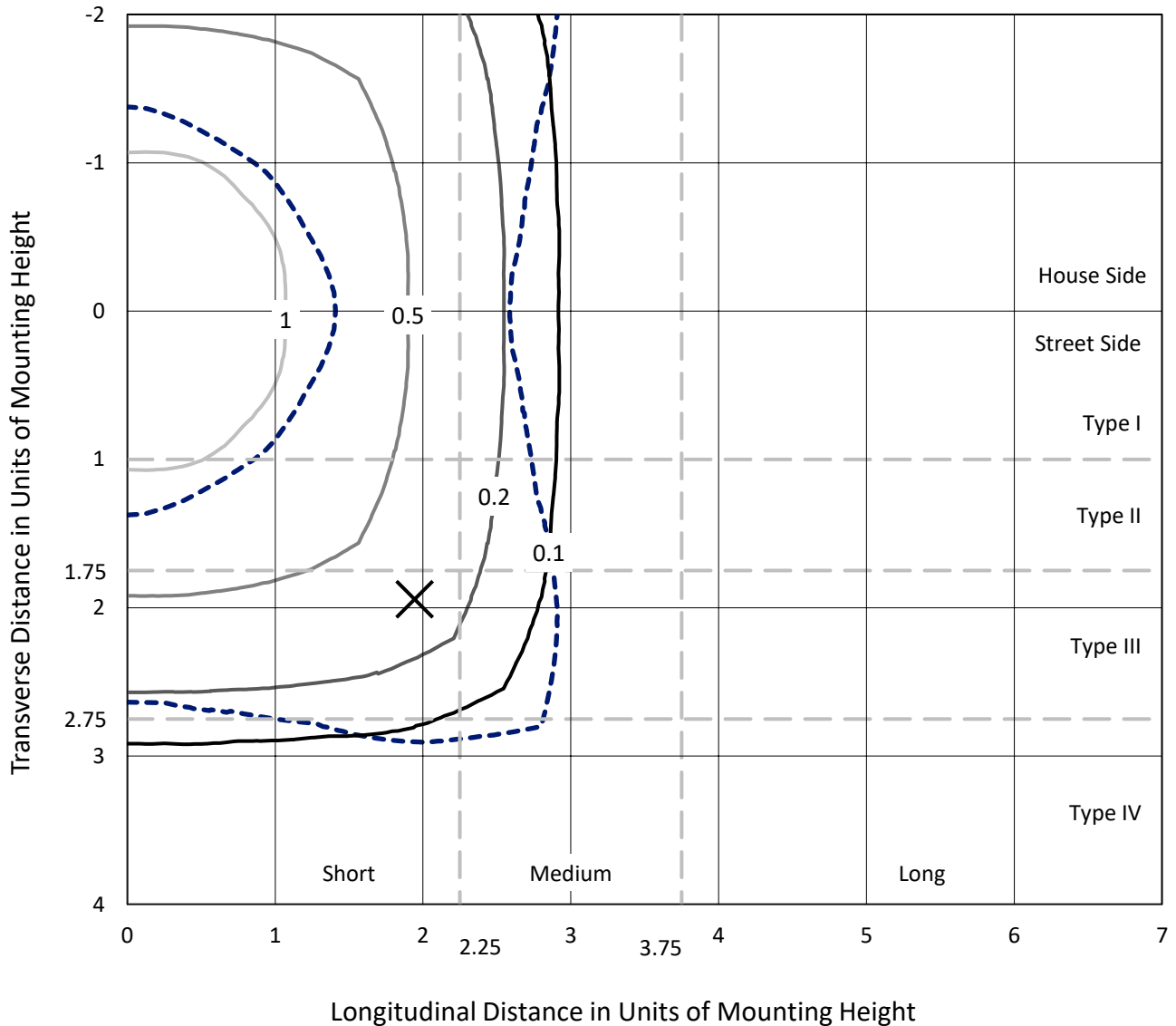
Input Watts (W): 108
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

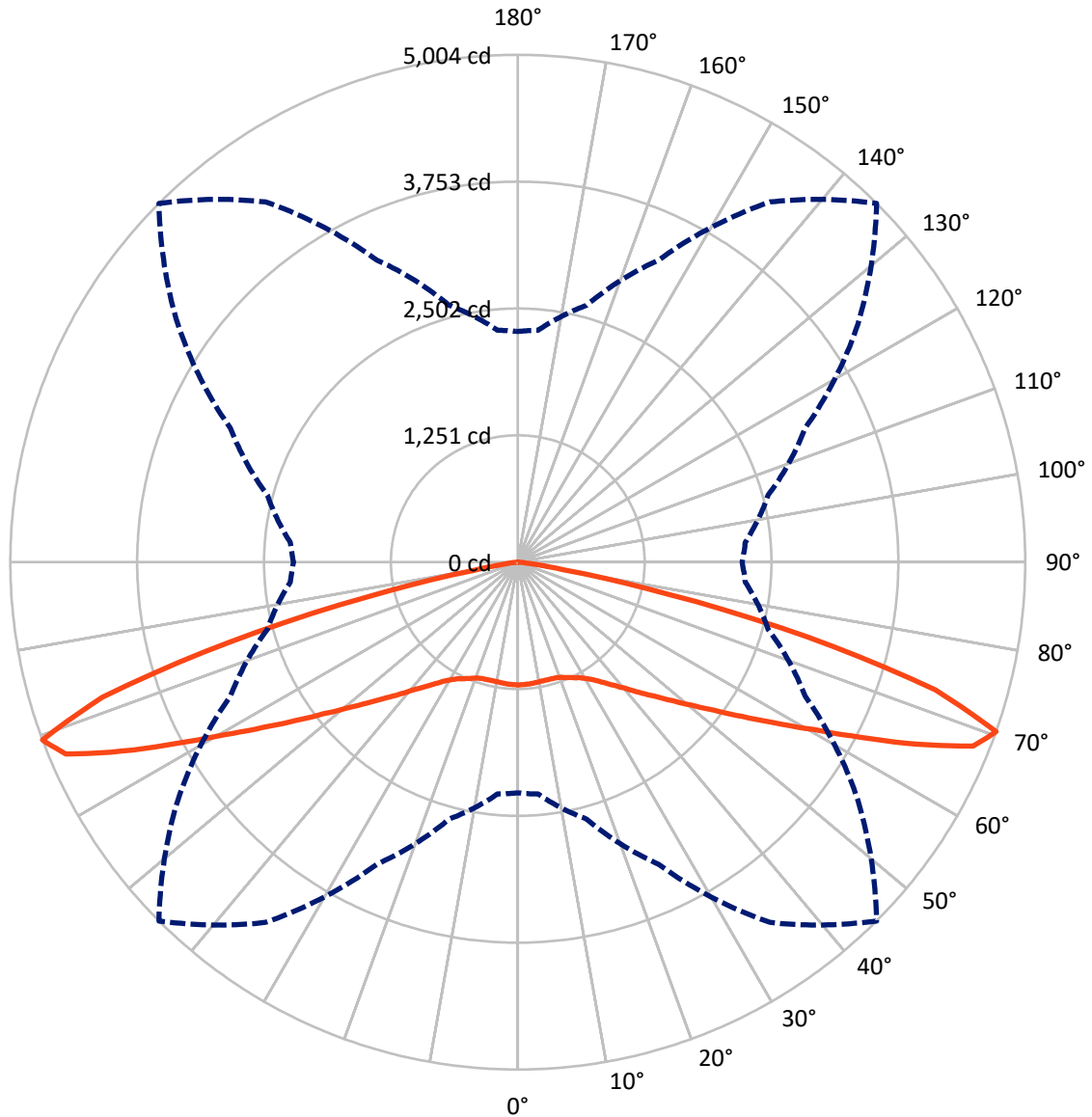
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 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
House Side	Lumens	5450.0	0.0	5450.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5450.0	0.0	5450.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10900.0	0.0	10900.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	1.1
10°-20°	336.8	3.1
20°-30°	576.1	5.3
30°-40°	914.3	8.4
40°-50°	1475.0	13.5
50°-60°	2399.9	22.0
60°-70°	3479.0	31.9
70°-80°	1543.2	14.2
80°-90°	60.9	0.6
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°	10900.0	100.0
0°-180°	10900.0	100.0

Coefficient of Utilization



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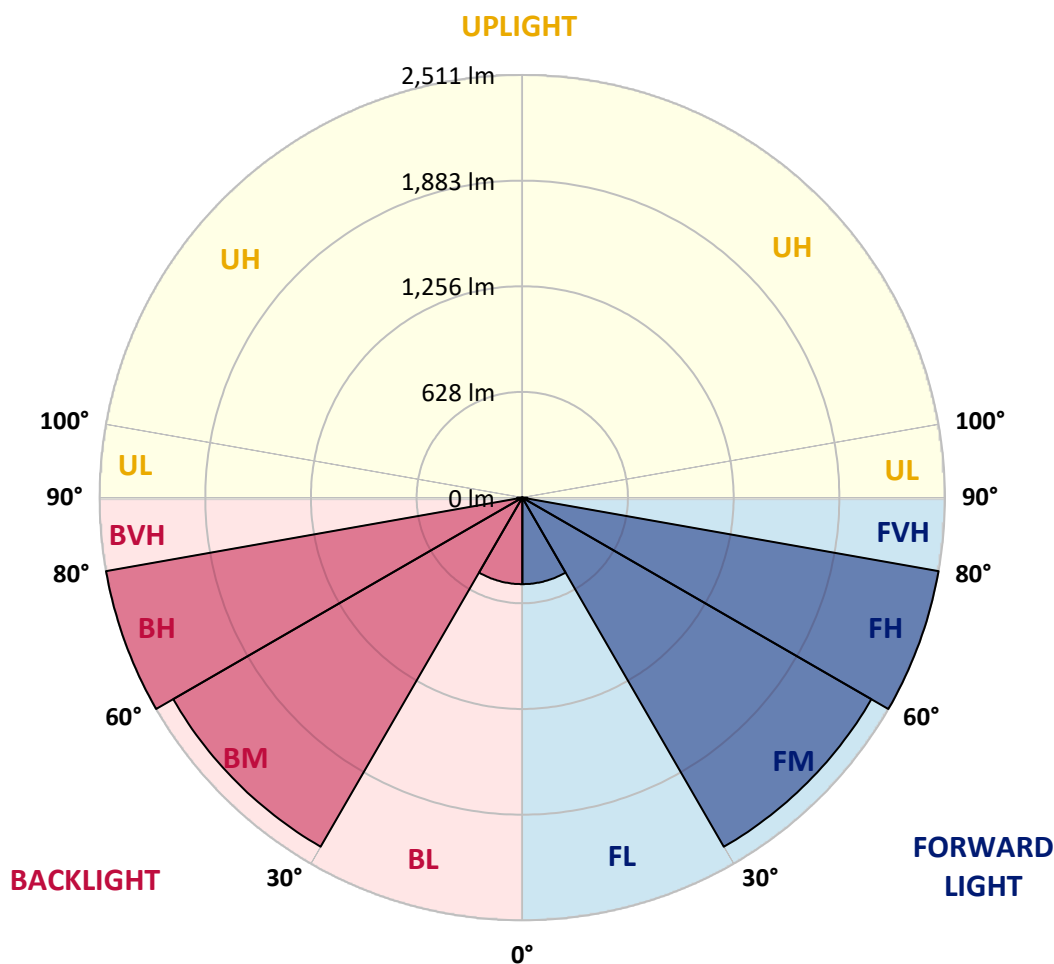
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	513.8	4.7			
FM	(30°-60°)	2394.6	22.0			
FH	(60°-80°)	2511.1	23.0			G2/5000
FVH	(80°-90°)	30.4	0.3			G1/100
BL	(0°-30°)	513.8	4.7	B2/1000		
BM	(30°-60°)	2394.6	22.0	B2/2500		
BH	(60°-80°)	2511.1	23.0	B4/5000		G2/5000
BVH	(80°-90°)	30.4	0.3			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°	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4	1210.4
2.5°	1210.4	1211.5	1209.8	1208.7	1208.1	1208.1	1207.5	1208.1	1211.5	1212.1	1210.4
5°	1206.9	1208.1	1207.5	1206.4	1205.8	1205.8	1205.2	1204.6	1207.5	1208.7	1208.1
7.5°	1202.4	1202.9	1202.4	1201.8	1202.4	1201.8	1200.1	1198.9	1201.2	1201.2	1200.6
10°	1194.3	1195.5	1194.9	1195.5	1196.6	1196.6	1194.3	1192.0	1192.6	1191.4	1191.4
12.5°	1184.5	1186.3	1186.8	1189.1	1192.0	1195.5	1190.3	1185.1	1184.0	1183.4	1182.8
15°	1178.2	1179.9	1182.2	1184.5	1189.7	1197.2	1189.7	1181.7	1179.4	1177.1	1175.9
17.5°	1176.5	1178.8	1182.2	1185.7	1192.6	1200.1	1193.7	1185.7	1179.9	1176.5	1175.4
20°	1181.1	1182.8	1188.0	1194.3	1204.1	1211.5	1205.2	1196.6	1188.0	1182.8	1181.1
22.5°	1190.3	1193.2	1199.5	1211.0	1224.8	1235.7	1227.1	1212.7	1198.9	1192.0	1189.7
25°	1210.4	1212.7	1220.2	1235.7	1251.8	1262.1	1252.9	1236.2	1217.3	1208.1	1205.2
27.5°	1240.8	1244.3	1252.3	1270.7	1283.9	1289.7	1283.4	1271.9	1258.1	1248.3	1246.0
30°	1283.9	1287.9	1300.0	1319.5	1328.2	1331.6	1328.7	1321.3	1311.5	1301.2	1298.9
32.5°	1341.9	1344.2	1358.0	1376.4	1384.5	1385.6	1382.2	1378.7	1362.6	1345.4	1344.2
35°	1406.9	1410.9	1427.5	1449.4	1456.8	1457.4	1450.5	1445.3	1426.4	1412.6	1412.6
37.5°	1493.0	1494.8	1510.8	1535.5	1543.6	1541.3	1537.8	1533.2	1513.1	1495.3	1495.9
40°	1594.1	1597.6	1611.4	1640.1	1640.1	1637.2	1639.5	1636.1	1616.0	1598.7	1599.3
42.5°	1714.2	1715.9	1732.6	1763.0	1760.7	1755.0	1757.3	1752.7	1740.0	1720.5	1713.6
45°	1842.3	1849.2	1877.9	1907.2	1902.6	1884.2	1893.4	1892.3	1880.8	1851.5	1853.2
47.5°	1996.8	2008.3	2035.9	2070.9	2065.8	2037.0	2047.4	2054.3	2038.2	2006.0	2000.3
50°	2170.9	2178.4	2219.2	2251.9	2247.3	2216.9	2240.4	2241.6	2201.3	2156.0	2156.0
52.5°	2356.4	2363.9	2419.1	2470.2	2473.1	2428.8	2447.8	2446.6	2381.1	2321.4	2309.9
55°	2564.4	2567.8	2639.1	2714.3	2730.4	2687.3	2689.6	2666.7	2581.6	2512.1	2505.8
57.5°	2779.3	2791.9	2870.6	2968.3	3015.9	2989.5	2977.4	2916.0	2833.8	2754.0	2750.0
60°	3017.1	3017.7	3119.9	3235.4	3331.9	3349.7	3300.3	3218.1	3111.9	3006.2	3001.6
62.5°	3182.0	3206.7	3335.9	3531.2	3704.1	3804.1	3673.7	3501.4	3292.2	3121.6	3104.4
65°	3215.8	3232.5	3429.5	3760.4	4113.7	4329.2	4027.6	3661.1	3304.3	3076.8	3065.3
67.5°	2941.8	2959.6	3225.0	3732.9	4401.0	4842.7	4257.3	3584.1	3099.8	2818.3	2795.9
70°	2275.4	2295.6	2623.6	3285.9	4337.2	5004.1	4093.6	3126.2	2556.4	2252.5	2211.7
72.5°	1209.8	1283.9	1564.3	2255.3	3520.3	4308.5	3356.6	2281.2	1648.7	1347.7	1293.7
75°	441.8	451.0	607.2	1000.1	2048.0	2954.5	2126.7	1088.0	625.6	483.1	458.4
77.5°	182.7	182.1	199.9	302.2	743.9	1513.1	830.1	319.4	199.3	184.4	182.1
80°	108.0	108.0	118.9	125.8	195.9	456.7	218.9	142.5	119.5	109.1	110.9
82.5°	48.3	51.1	75.3	79.3	94.8	125.2	105.7	90.8	78.1	54.0	48.8
85°	26.4	23.0	39.6	41.4	45.4	46.5	50.0	49.4	45.4	26.4	27.0
87.5°	5.2	6.3	11.5	8.6	9.8	8.6	11.5	16.1	16.7	9.2	7.5
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)