

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: P527831

Luminaire Tested: **GALN-SA2D-827-U-5MQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2D-827-U-5MQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6863 lumens
Efficiency: N/A
Efficacy: 54.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

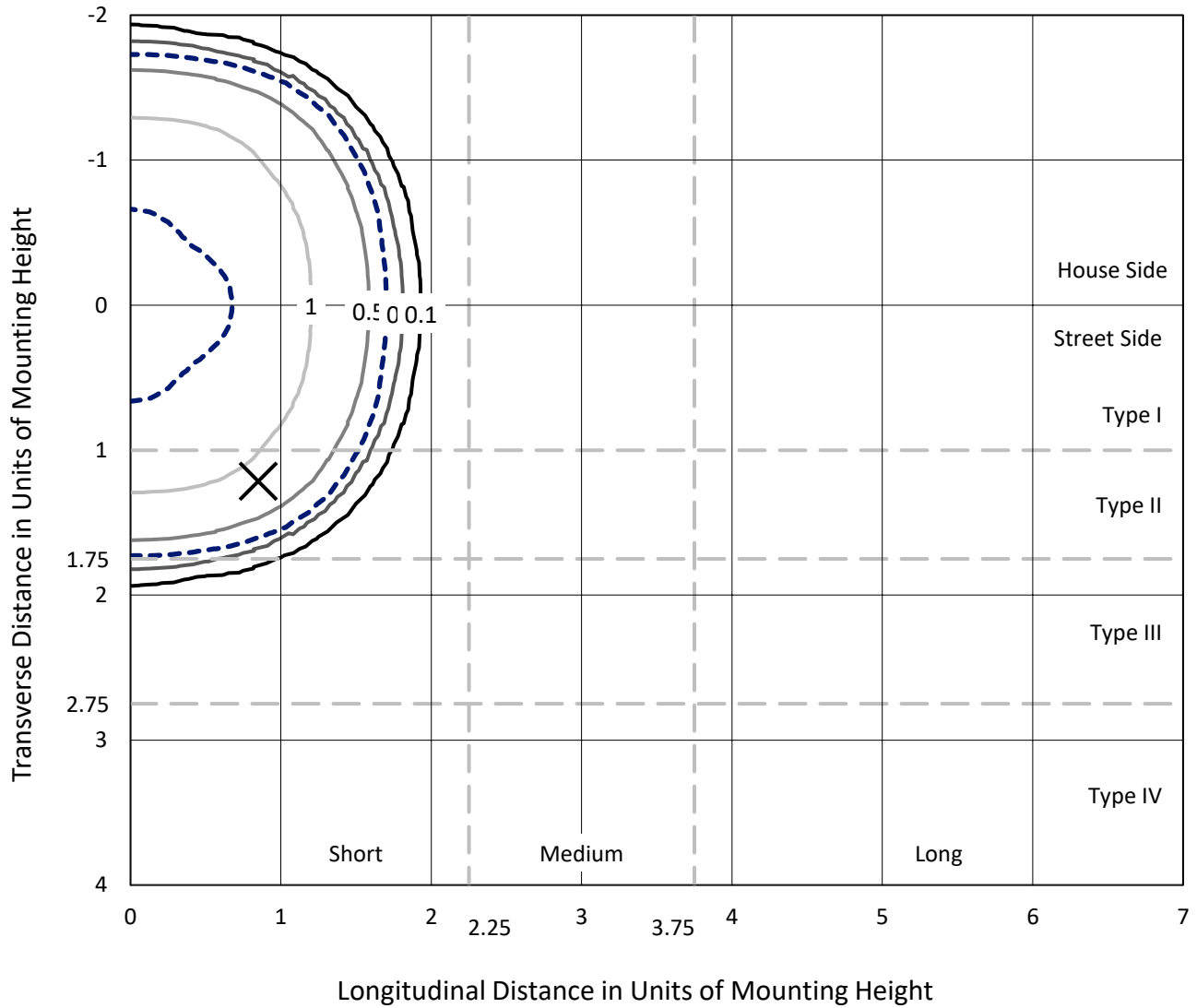
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

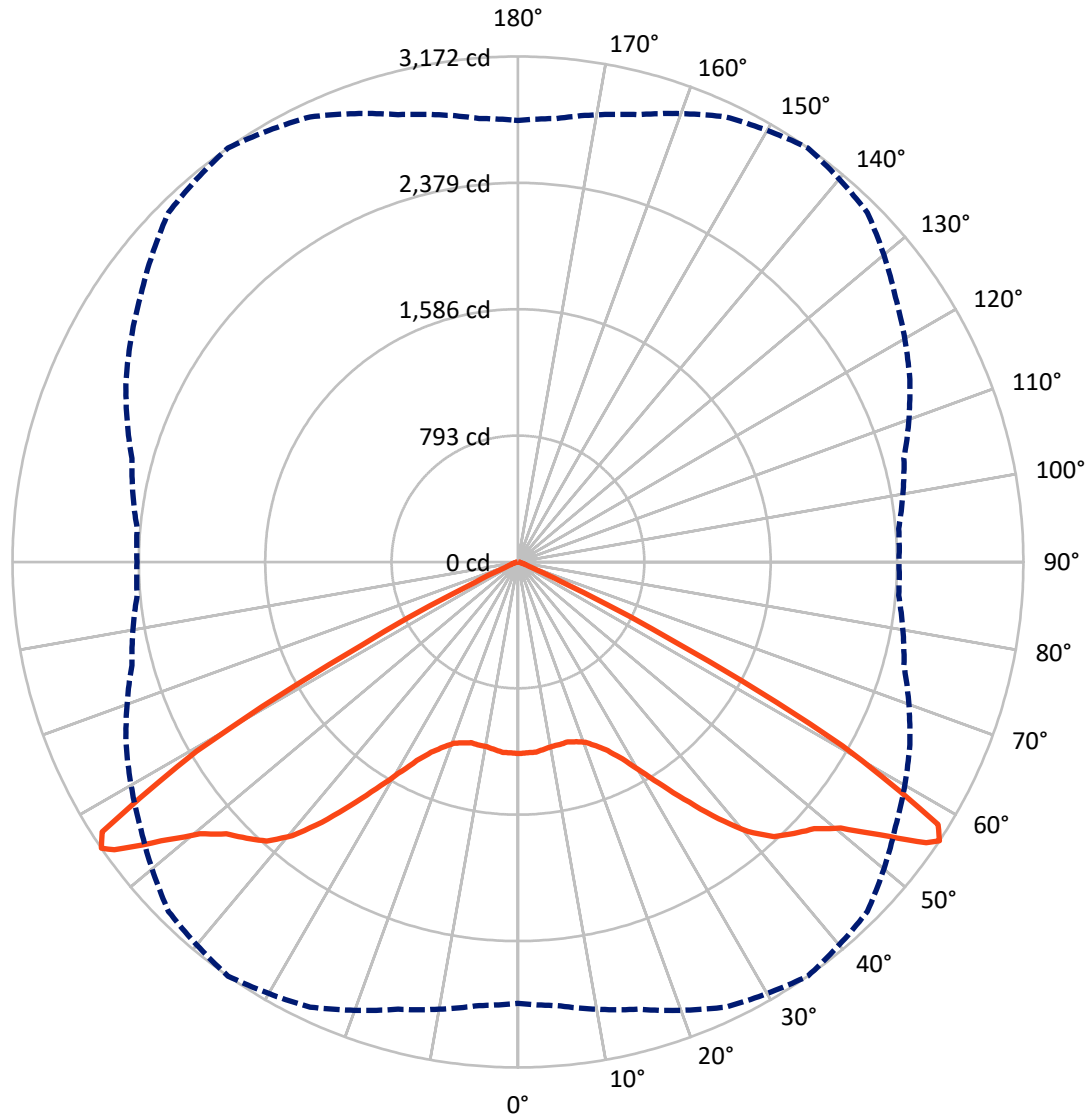
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3431.5	0.0	3431.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3431.5	0.0	3431.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6863.0	0.0	6863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	1.6
10°-20°	330.0	4.8
20°-30°	597.5	8.7
30°-40°	1108.0	16.1
40°-50°	1818.7	26.5
50°-60°	2343.1	34.1
60°-70°	516.4	7.5
70°-80°	30.0	0.4
80°-90°	6.3	0.1
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°	6863.0	100.0
0°-180°	6863.0	100.0

Coefficient of Utilization

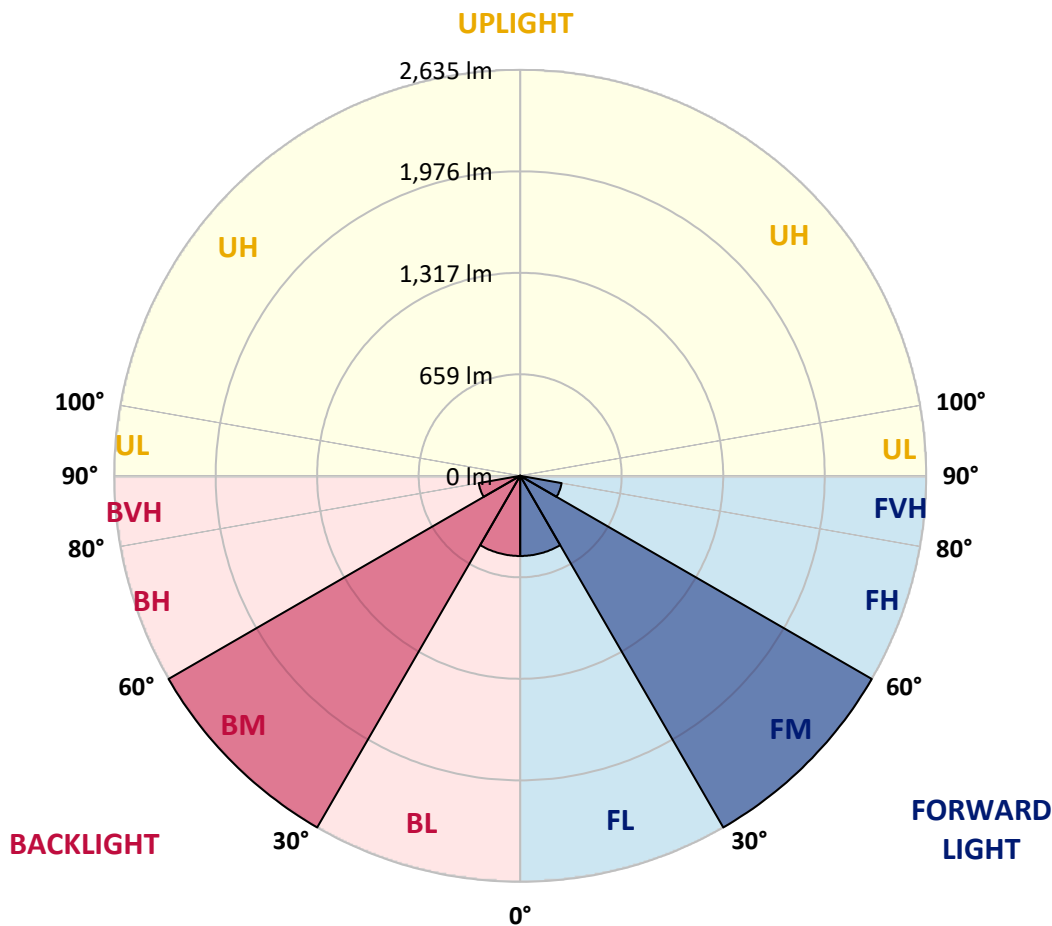


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.3	7.6			
FM (30°-60°)	2634.9	38.4			
FH (60°-80°)	273.2	4.0			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	520.3	7.6	B2/1000		
BM (30°-60°)	2634.9	38.4	B3/5000		
BH (60°-80°)	273.2	4.0	B1/500		G0/660
BVH (80°-90°)	3.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5	1202.5
2.5°	1205.0	1205.0	1206.3	1207.5	1198.8	1195.1	1196.3	1193.8	1192.6	1196.3	1196.3
5°	1201.3	1201.3	1197.6	1198.8	1198.8	1187.6	1187.6	1190.1	1190.1	1182.6	1180.2
7.5°	1191.4	1188.9	1183.9	1190.1	1186.4	1186.4	1177.7	1171.5	1169.0	1173.9	1169.0
10°	1170.2	1171.5	1176.4	1178.9	1176.4	1183.9	1169.0	1160.3	1151.6	1147.8	1147.8
12.5°	1160.3	1167.7	1160.3	1166.5	1175.2	1169.0	1160.3	1154.0	1141.6	1136.6	1136.6
15°	1159.0	1164.0	1166.5	1175.2	1171.5	1173.9	1156.5	1149.1	1130.4	1121.7	1118.0
17.5°	1157.8	1164.0	1167.7	1183.9	1186.4	1187.6	1173.9	1151.6	1135.4	1126.7	1118.0
20°	1171.5	1173.9	1181.4	1197.6	1207.5	1224.9	1200.1	1176.4	1141.6	1131.7	1127.9
22.5°	1188.9	1201.3	1208.8	1226.2	1252.3	1267.2	1234.9	1205.0	1169.0	1156.5	1141.6
25°	1244.8	1242.3	1254.8	1290.8	1312.0	1323.2	1297.1	1253.5	1206.3	1191.4	1193.8
27.5°	1314.5	1317.0	1328.1	1367.9	1399.0	1416.4	1385.4	1328.1	1282.1	1257.3	1254.8
30°	1405.2	1402.8	1415.2	1468.7	1524.6	1550.7	1496.0	1428.9	1384.1	1351.8	1359.2
32.5°	1501.0	1502.2	1537.1	1585.6	1676.4	1727.3	1639.0	1557.0	1489.8	1467.4	1456.2
35°	1642.8	1649.0	1676.4	1751.0	1851.7	1917.6	1820.6	1722.4	1645.3	1604.2	1609.2
37.5°	1818.1	1811.9	1857.9	1938.7	2044.5	2093.0	2010.9	1899.0	1820.6	1793.2	1810.7
40°	2004.7	2010.9	2034.5	2107.9	2226.0	2258.3	2136.5	2075.5	2007.1	1993.5	2014.6
42.5°	2191.2	2187.5	2204.9	2270.8	2356.6	2334.2	2262.1	2226.0	2177.5	2150.2	2178.8
45°	2328.0	2321.8	2354.1	2398.9	2430.0	2387.7	2355.3	2342.9	2318.0	2288.2	2314.3
47.5°	2461.1	2456.1	2487.2	2499.6	2502.1	2446.1	2452.3	2474.7	2412.6	2350.4	2380.2
50°	2574.2	2565.5	2604.1	2631.4	2625.2	2535.7	2558.1	2535.7	2438.7	2365.3	2354.1
52.5°	2763.2	2767.0	2808.0	2857.8	2842.8	2768.2	2735.9	2633.9	2509.6	2443.6	2405.1
55°	2882.6	2864.0	2934.9	3092.8	3110.2	3033.1	2890.1	2739.6	2553.1	2472.2	2462.3
56°	2770.7	2794.3	2906.3	3082.8	3172.4	3101.5	2893.8	2713.5	2508.3	2398.9	2391.4
57.5°	2485.9	2473.5	2625.2	2866.5	3110.2	3080.4	2791.8	2527.0	2288.2	2165.1	2150.2
60°	1547.0	1583.1	1716.1	2014.6	2340.4	2355.3	2069.3	1841.7	1563.2	1453.7	1479.9
62.5°	605.6	574.5	657.9	880.5	1104.3	1154.0	1045.9	869.3	713.8	605.6	598.2
65°	140.5	136.8	154.2	212.7	297.2	344.5	327.1	235.0	172.9	164.2	151.7
67.5°	79.6	79.6	75.9	75.9	83.3	88.3	84.6	83.3	87.1	90.8	89.5
70°	56.0	54.7	52.2	53.5	51.0	51.0	54.7	60.9	65.9	65.9	67.2
72.5°	33.6	33.6	33.6	37.3	37.3	37.3	41.0	46.0	47.3	46.0	44.8
75°	14.9	14.9	17.4	21.1	23.6	24.9	28.6	31.1	33.6	31.1	28.6
77.5°	3.7	3.7	6.2	8.7	11.2	13.7	18.7	22.4	23.6	22.4	18.7
80°	1.2	1.2	2.5	6.2	11.2	13.7	18.7	19.9	21.1	18.7	14.9
82.5°	1.2	1.2	2.5	6.2	8.7	11.2	14.9	17.4	18.7	16.2	14.9
85°	0.0	1.2	2.5	5.0	7.5	9.9	9.9	7.5	6.2	3.7	5.0
87.5°	0.0	0.0	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)