

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: P451350

Luminaire Tested: **GALN-SA2B-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451350
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-SA2B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10037 lumens
Efficiency: N/A
Efficacy: 122.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

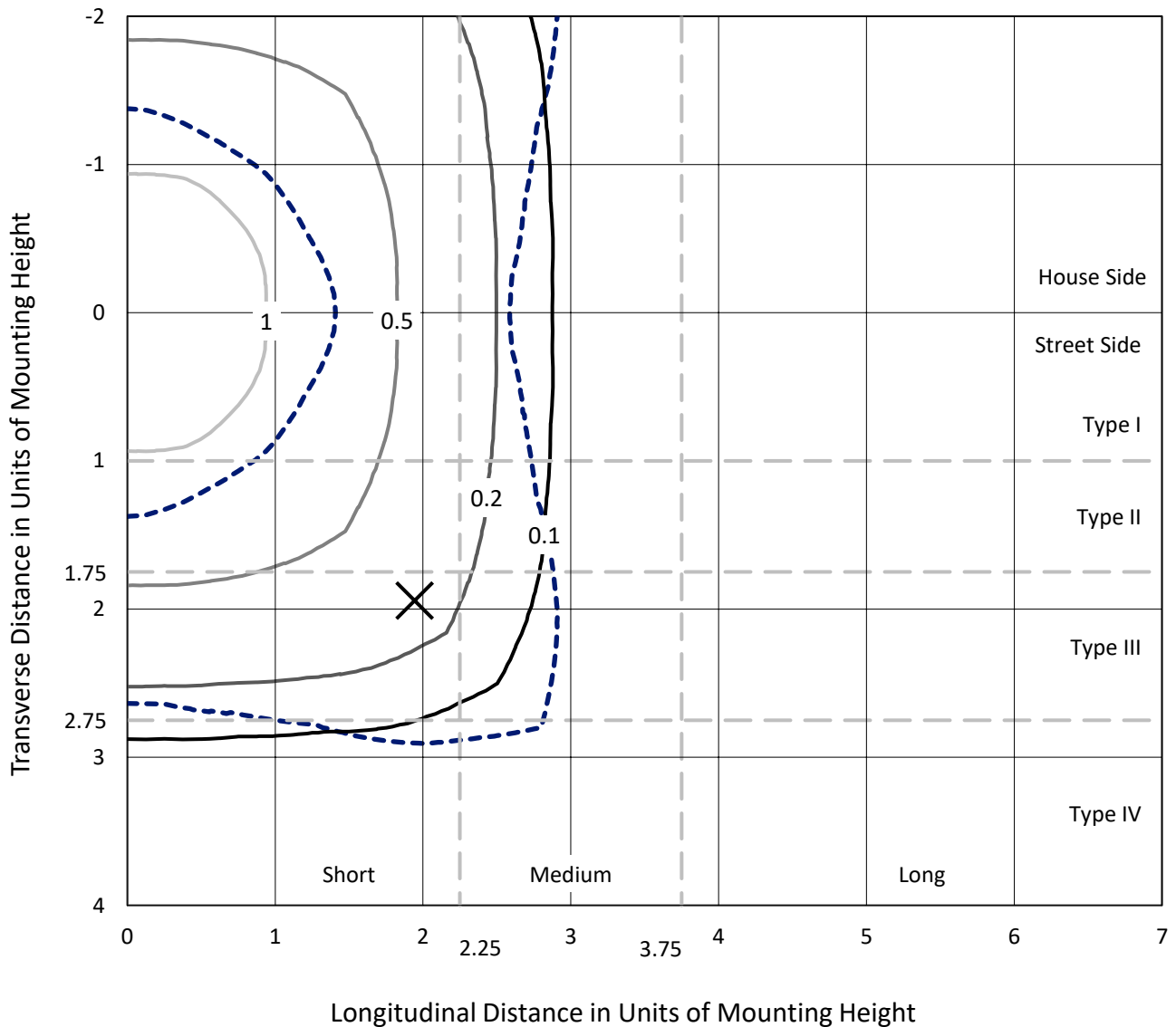
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

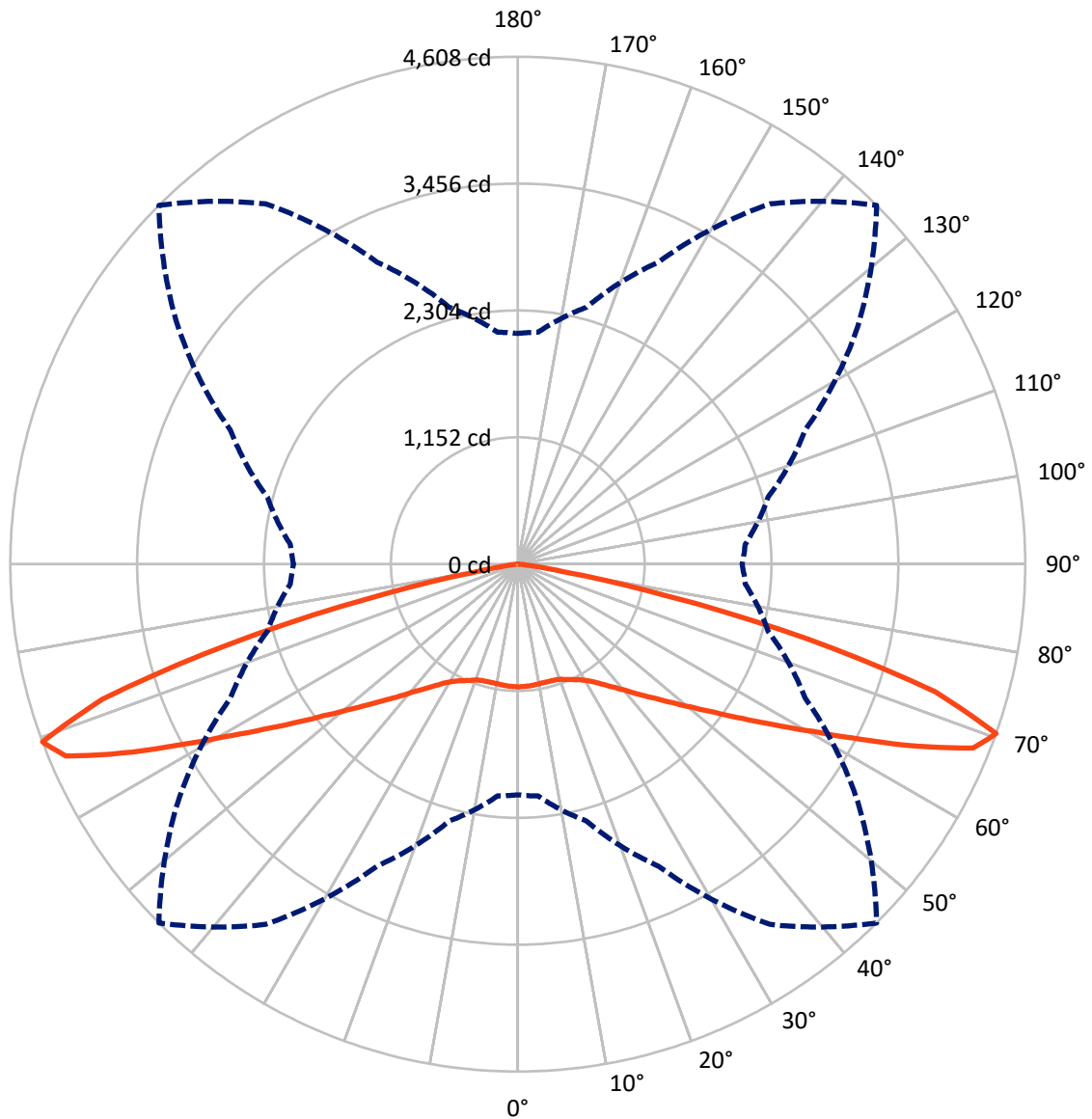
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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
House Side	Lumens	5018.5	0.0	5018.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5018.5	0.0	5018.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	10037.0	0.0	10037.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.7	1.1
10°-20°	310.1	3.1
20°-30°	530.4	5.3
30°-40°	841.9	8.4
40°-50°	1358.3	13.5
50°-60°	2209.9	22.0
60°-70°	3203.6	31.9
70°-80°	1421.0	14.2
80°-90°	56.0	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°	10037.0	100.0
0°-180°	10037.0	100.0



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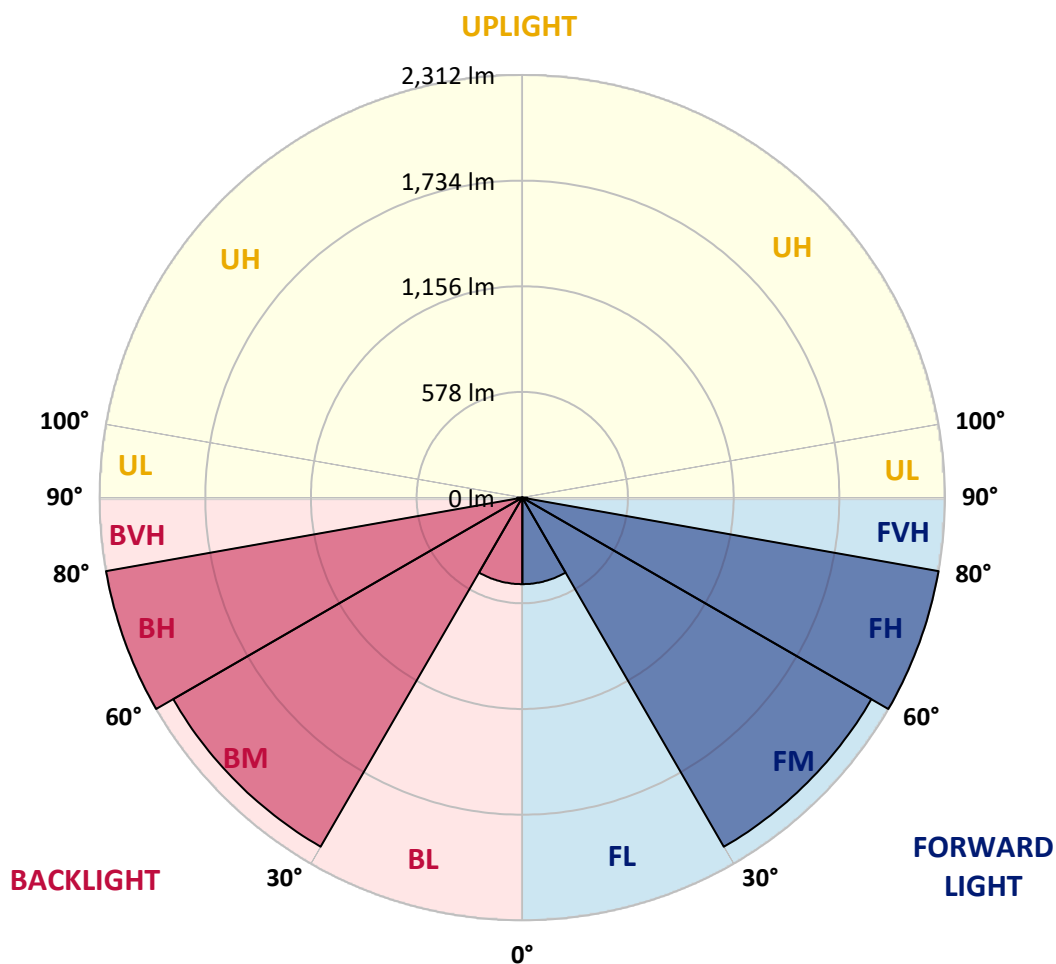
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	473.1	4.7			
FM (30°-60°)	2205.0	22.0			
FH (60°-80°)	2312.3	23.0			G2/5000
FVH (80°-90°)	28.0	0.3			G1/100
BL (0°-30°)	473.1	4.7	B1/500		
BM (30°-60°)	2205.0	22.0	B2/2500		
BH (60°-80°)	2312.3	23.0	B3/2500		G2/5000
BVH (80°-90°)	28.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1114.6	1114.6	1114.6	1114.6	1114.6	1114.6	1114.6	1114.6	1114.6	1114.6	1114.6
2.5°	1114.6	1115.6	1114.0	1113.0	1112.4	1112.4	1111.9	1112.4	1115.6	1116.1	1114.6
5°	1111.4	1112.4	1111.9	1110.9	1110.3	1110.3	1109.8	1109.3	1111.9	1113.0	1112.4
7.5°	1107.2	1107.7	1107.2	1106.6	1107.2	1106.6	1105.0	1104.0	1106.1	1106.1	1105.6
10°	1099.8	1100.8	1100.3	1100.8	1101.9	1101.9	1099.8	1097.6	1098.2	1097.1	1097.1
12.5°	1090.8	1092.3	1092.9	1095.0	1097.6	1100.8	1096.0	1091.3	1090.2	1089.7	1089.2
15°	1084.9	1086.5	1088.6	1090.8	1095.5	1102.4	1095.5	1088.1	1086.0	1083.9	1082.8
17.5°	1083.4	1085.5	1088.6	1091.8	1098.2	1105.0	1099.2	1091.8	1086.5	1083.4	1082.3
20°	1087.6	1089.2	1093.9	1099.8	1108.7	1115.6	1109.8	1101.9	1093.9	1089.2	1087.6
22.5°	1096.0	1098.7	1104.5	1115.1	1127.8	1137.8	1129.9	1116.7	1104.0	1097.6	1095.5
25°	1114.6	1116.7	1123.6	1137.8	1152.6	1162.2	1153.7	1138.4	1120.9	1112.4	1109.8
27.5°	1142.6	1145.8	1153.2	1170.1	1182.3	1187.6	1181.7	1171.2	1158.5	1149.5	1147.4
30°	1182.3	1186.0	1197.1	1215.1	1223.0	1226.2	1223.5	1216.7	1207.7	1198.1	1196.0
32.5°	1235.7	1237.8	1250.5	1267.4	1274.8	1275.9	1272.7	1269.6	1254.7	1238.9	1237.8
35°	1295.5	1299.2	1314.5	1334.6	1341.5	1342.0	1335.7	1330.9	1313.5	1300.8	1300.8
37.5°	1374.8	1376.4	1391.2	1414.0	1421.4	1419.3	1416.1	1411.8	1393.3	1376.9	1377.5
40°	1467.9	1471.1	1483.8	1510.2	1510.2	1507.6	1509.7	1506.5	1488.0	1472.2	1472.7
42.5°	1578.5	1580.1	1595.4	1623.4	1621.3	1616.0	1618.2	1613.9	1602.3	1584.3	1577.9
45°	1696.4	1702.8	1729.2	1756.2	1752.0	1735.1	1743.5	1742.5	1731.9	1704.9	1706.5
47.5°	1838.7	1849.3	1874.7	1907.0	1902.2	1875.8	1885.3	1891.6	1876.8	1847.2	1841.9
50°	1999.0	2005.9	2043.5	2073.6	2069.4	2041.3	2063.0	2064.1	2027.1	1985.3	1985.3
52.5°	2169.9	2176.8	2227.5	2274.6	2277.3	2236.5	2254.0	2252.9	2192.6	2137.6	2127.0
55°	2361.4	2364.5	2430.1	2499.4	2514.2	2474.6	2476.7	2455.5	2377.2	2313.2	2307.4
57.5°	2559.2	2570.8	2643.3	2733.2	2777.1	2752.8	2741.7	2685.1	2609.5	2535.9	2532.2
60°	2778.2	2778.7	2872.9	2979.2	3068.1	3084.5	3039.0	2963.3	2865.5	2768.2	2763.9
62.5°	2930.0	2952.8	3071.8	3251.6	3410.9	3502.9	3382.8	3224.1	3031.6	2874.5	2858.6
65°	2961.2	2976.6	3158.0	3462.7	3788.0	3986.4	3708.7	3371.2	3042.7	2833.2	2822.6
67.5°	2708.9	2725.3	2969.7	3437.3	4052.5	4459.3	3920.3	3300.3	2854.4	2595.2	2574.5
70°	2095.3	2113.8	2415.9	3025.8	3993.8	4607.9	3769.5	2878.7	2354.0	2074.1	2036.6
72.5°	1114.0	1182.3	1440.4	2076.8	3241.6	3967.4	3090.8	2100.6	1518.2	1241.0	1191.3
75°	406.8	415.2	559.1	921.0	1885.8	2720.5	1958.3	1001.9	576.1	444.9	422.1
77.5°	168.2	167.7	184.1	278.2	685.0	1393.3	764.4	294.1	183.6	169.8	167.7
80°	99.4	99.4	109.5	115.8	180.4	420.5	201.5	131.2	110.0	100.5	102.1
82.5°	44.4	47.1	69.3	73.0	87.3	115.3	97.3	83.6	71.9	49.7	45.0
85°	24.3	21.2	36.5	38.1	41.8	42.8	46.0	45.5	41.8	24.3	24.9
87.5°	4.8	5.8	10.6	7.9	9.0	7.9	10.6	14.8	15.3	8.5	6.9
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)