

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: P939800

Luminaire Tested: **GALN-SB2C-827-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13173 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

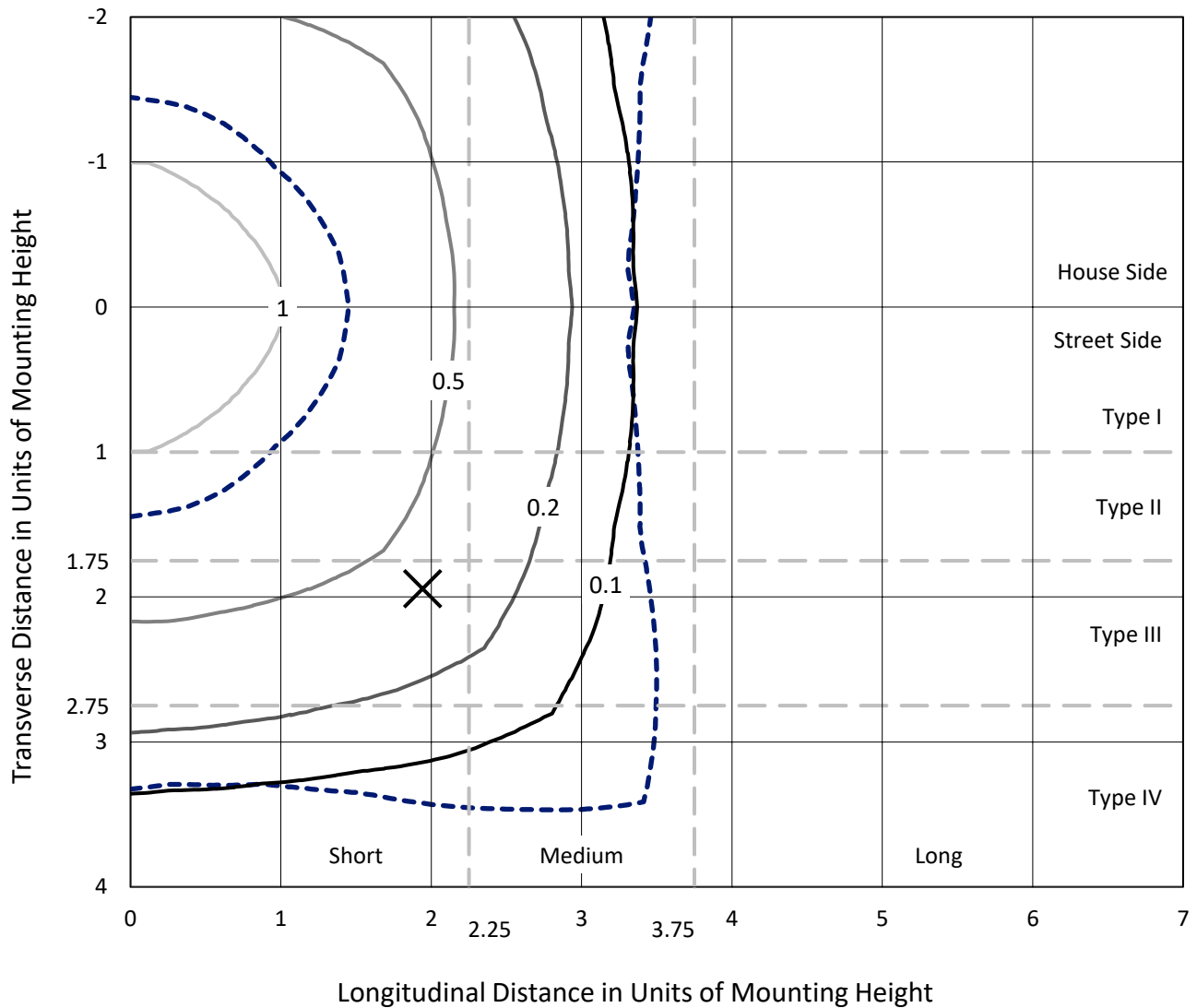
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

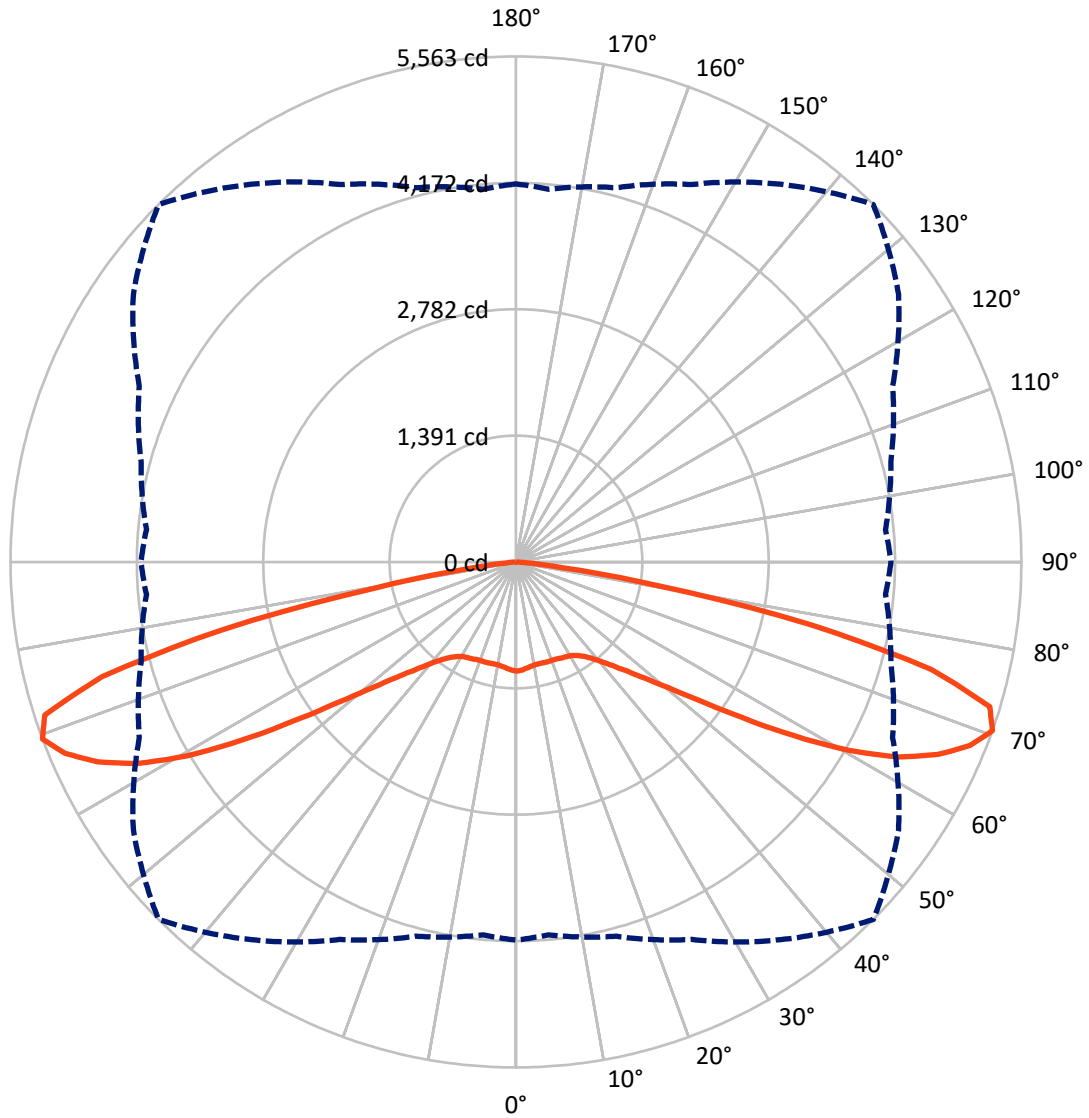
✕ Max cd
 - - - 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6586.5	0.0	6586.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6586.5	0.0	6586.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13173.0	0.0	13173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.8	0.8
10°-20°	328.2	2.5
20°-30°	546.2	4.1
30°-40°	826.0	6.3
40°-50°	1372.7	10.4
50°-60°	2590.1	19.7
60°-70°	4373.6	33.2
70°-80°	2873.9	21.8
80°-90°	150.6	1.1
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°	13173.0	100.0
0°-180°	13173.0	100.0

Coefficient of Utilization



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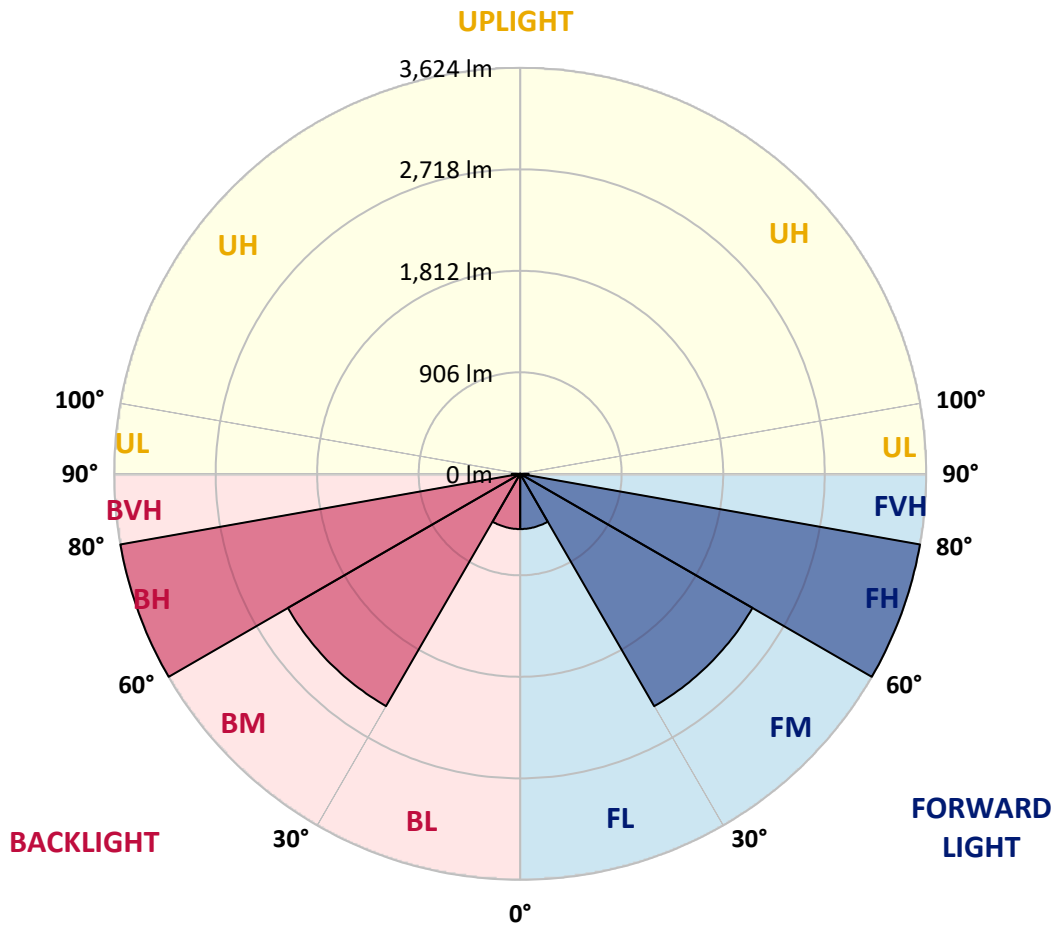
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	493.1	3.7			
FM (30°-60°)	2394.4	18.2			
FH (60°-80°)	3623.7	27.5			G2/5000
FVH (80°-90°)	75.3	0.6			G1/100
BL (0°-30°)	493.1	3.7	B1/500		
BM (30°-60°)	2394.4	18.2	B2/2500		
BH (60°-80°)	3623.7	27.5	B4/5000		G2/5000
BVH (80°-90°)	75.3	0.6			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°
0°	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6	1201.6
2.5°	1194.1	1197.5	1196.2	1193.4	1193.4	1191.4	1193.4	1194.8	1196.8	1198.2
5°	1178.4	1181.1	1180.4	1178.4	1179.0	1177.0	1178.4	1180.4	1181.8	1182.5
7.5°	1164.7	1167.4	1166.0	1162.6	1162.6	1160.6	1161.2	1163.3	1165.4	1166.0
10°	1161.2	1164.0	1159.9	1154.4	1152.3	1149.6	1150.3	1152.3	1156.5	1158.5
12.5°	1162.6	1164.7	1160.6	1152.3	1150.3	1147.6	1147.6	1149.6	1155.1	1157.8
15°	1166.7	1168.8	1162.6	1153.7	1151.7	1149.6	1148.9	1151.7	1157.8	1162.6
17.5°	1174.3	1176.3	1166.7	1154.4	1151.7	1152.3	1151.7	1153.7	1163.3	1172.2
20°	1181.1	1182.5	1169.5	1154.4	1151.7	1152.3	1151.7	1155.8	1168.1	1180.4
22.5°	1183.2	1184.5	1172.2	1159.2	1157.1	1157.8	1157.1	1161.2	1172.9	1185.2
25°	1183.8	1185.9	1176.3	1166.0	1169.5	1170.8	1169.5	1170.1	1179.0	1190.0
27.5°	1194.1	1196.8	1187.9	1179.0	1181.1	1180.4	1182.5	1184.5	1191.4	1202.3
30°	1215.3	1217.4	1209.9	1201.0	1199.6	1194.8	1201.0	1207.8	1215.3	1224.9
32.5°	1250.3	1254.4	1244.8	1235.2	1229.0	1226.3	1231.1	1242.7	1253.0	1263.3
35°	1308.5	1311.2	1302.3	1284.5	1273.5	1273.5	1277.6	1292.7	1309.1	1322.1
37.5°	1390.6	1394.0	1378.3	1357.1	1340.6	1340.6	1346.1	1361.9	1386.5	1405.0
40°	1490.6	1495.4	1475.5	1453.6	1437.9	1435.1	1442.0	1459.8	1483.1	1506.3
42.5°	1611.1	1616.6	1590.6	1571.4	1559.1	1559.1	1562.5	1578.9	1600.1	1628.9
45°	1765.1	1774.7	1739.1	1720.0	1708.3	1711.1	1713.1	1727.5	1746.7	1779.5
47.5°	1948.6	1958.2	1920.6	1900.7	1898.7	1911.7	1903.5	1913.7	1924.0	1961.7
50°	2156.8	2173.2	2147.2	2145.8	2149.9	2173.9	2154.7	2160.2	2148.6	2172.5
52.5°	2411.5	2435.5	2430.7	2438.9	2484.8	2534.1	2490.2	2471.1	2427.3	2434.8
55°	2720.3	2756.6	2763.4	2812.7	2916.8	3017.5	2924.3	2847.0	2753.9	2736.7
57.5°	3071.5	3100.3	3133.2	3233.8	3428.3	3607.0	3428.3	3257.1	3110.6	3075.7
60°	3449.5	3485.1	3516.6	3665.2	3954.1	4205.4	3948.6	3676.8	3483.1	3435.8
62.5°	3855.5	3901.4	3923.3	4088.3	4425.2	4725.1	4430.0	4100.6	3885.7	3835.0
65°	4245.1	4282.8	4307.4	4483.4	4805.2	5105.8	4827.1	4502.6	4281.4	4215.0
67.5°	4426.6	4447.1	4507.4	4706.6	5046.2	5389.2	5103.7	4727.8	4480.7	4364.3
70°	4160.9	4119.1	4264.3	4583.4	5075.0	5563.2	5140.7	4573.8	4271.1	4082.2
72.5°	3215.3	3143.4	3395.4	3941.1	4746.3	5452.2	4779.2	3971.9	3552.2	3168.8
75°	1749.4	1667.9	2015.7	2705.9	3785.0	4725.8	3872.0	2783.3	2244.4	1736.4
77.5°	493.7	462.9	743.6	1309.1	2276.6	3318.0	2364.3	1337.9	881.9	523.1
80°	151.3	146.5	198.6	394.4	966.8	1589.2	929.1	399.2	252.7	159.5
82.5°	89.7	82.2	98.6	143.8	246.5	499.1	239.6	149.9	120.5	80.8
85°	51.4	47.9	58.2	69.8	82.8	106.1	69.2	71.2	64.4	43.1
87.5°	21.2	19.2	22.6	21.9	19.2	24.6	18.5	21.9	26.0	17.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1201.6
1197.5
1182.5
1166.0
1158.5
1158.5
1163.3
1172.2
1181.1
1185.2
1189.3
1199.6
1222.9
1259.2
1317.4
1398.2
1498.8
1626.8
1778.2
1950.7
2158.2
2409.4
2710.0
3051.0
3394.7
3793.9
4182.1
4365.6
4127.4
3263.9
1849.4
581.3
168.4
87.6
45.2
15.7
0.0

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