

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: P945692

Luminaire Tested: **GALN-SB1C-827-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945692
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-827-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6826 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

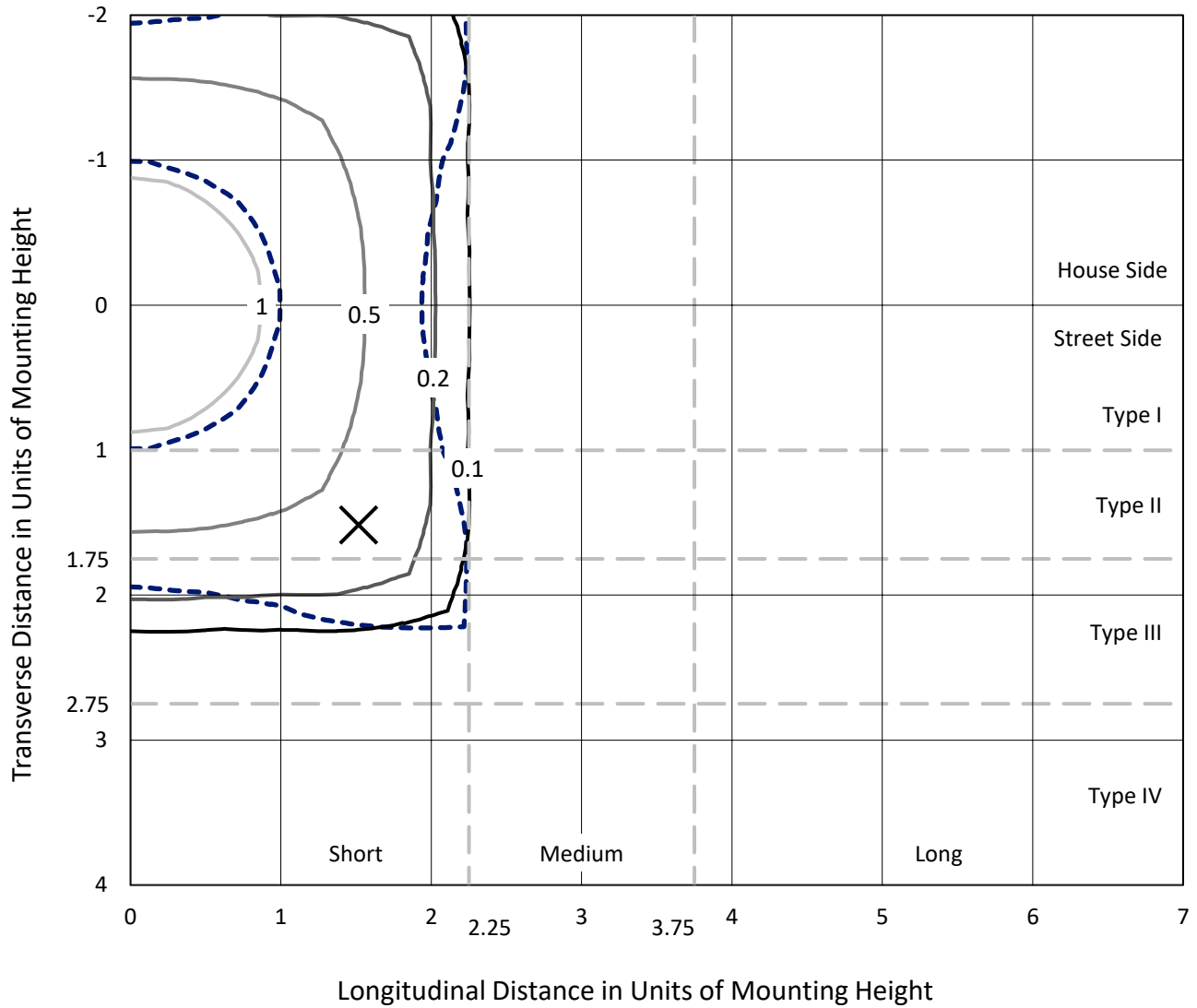
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

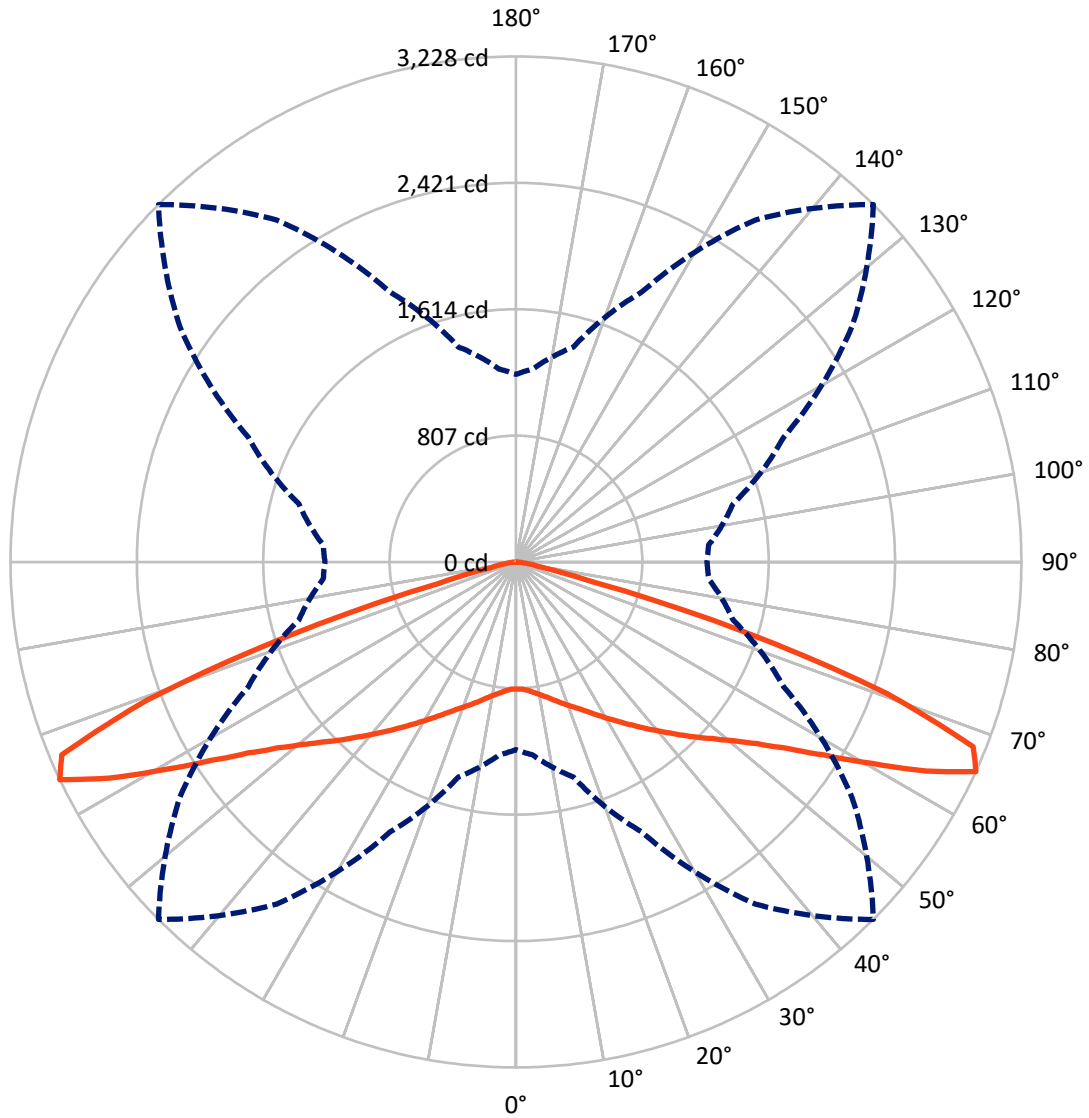
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3413.0	0.0	3413.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3413.0	0.0	3413.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	6826.0	0.0	6826.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.2
10°-20°	261.6	3.8
20°-30°	494.0	7.2
30°-40°	808.8	11.8
40°-50°	1254.1	18.4
50°-60°	1852.5	27.1
60°-70°	1763.4	25.8
70°-80°	284.6	4.2
80°-90°	26.8	0.4
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°	6826.0	100.0
0°-180°	6826.0	100.0

Coefficient of Utilization



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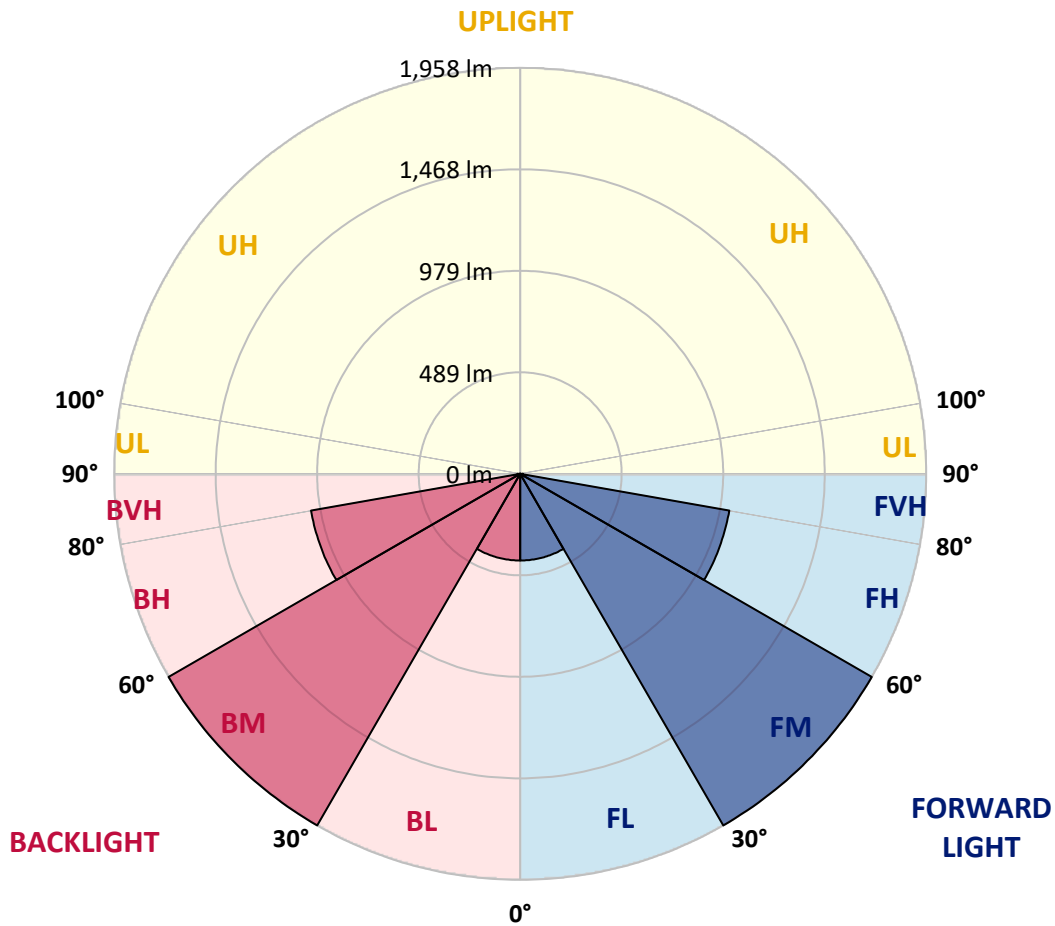
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	417.9	6.1			
FM (30°-60°)	1957.7	28.7			
FH (60°-80°)	1024.0	15.0			G1/1800
FVH (80°-90°)	13.4	0.2			G1/100
BL (0°-30°)	417.9	6.1	B1/500		
BM (30°-60°)	1957.7	28.7	B2/2500		
BH (60°-80°)	1024.0	15.0	B3/2500		G1/1800
BVH (80°-90°)	13.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4	812.4
2.5°	817.8	815.1	817.2	815.4	814.1	812.7	813.4	815.8	816.8	817.2
5°	828.8	826.4	827.4	827.4	825.0	824.3	824.7	826.4	828.5	828.5
7.5°	846.6	844.2	846.6	845.2	843.2	842.5	842.2	843.5	846.6	846.6
10°	868.2	865.4	866.8	866.1	863.7	862.7	862.4	864.4	867.2	866.8
12.5°	891.8	888.7	890.4	888.4	887.7	886.7	886.7	886.3	888.1	886.7
15°	918.2	916.1	916.8	915.4	916.5	915.8	913.1	911.7	912.4	910.3
17.5°	949.4	944.6	947.0	946.3	946.3	947.6	943.2	941.5	942.8	940.8
20°	985.3	980.5	981.5	980.2	978.5	979.8	974.4	975.7	976.8	975.4
22.5°	1024.7	1018.5	1018.2	1018.9	1015.1	1015.5	1011.7	1015.1	1017.2	1013.4
25°	1065.1	1058.6	1063.1	1061.3	1056.6	1057.6	1054.8	1058.3	1060.0	1055.2
27.5°	1107.9	1103.5	1107.6	1108.6	1102.8	1106.9	1102.8	1105.9	1107.6	1100.4
30°	1157.9	1153.5	1157.2	1160.0	1153.1	1159.6	1156.2	1158.3	1158.6	1150.0
32.5°	1212.4	1205.5	1215.1	1216.5	1209.0	1216.8	1212.4	1215.1	1216.8	1205.2
35°	1278.8	1270.3	1281.2	1279.5	1273.0	1279.5	1275.4	1279.5	1283.6	1269.6
37.5°	1350.4	1341.5	1353.1	1350.1	1343.9	1348.3	1345.9	1348.7	1355.2	1340.1
40°	1429.2	1418.2	1434.0	1428.5	1422.7	1422.0	1423.3	1425.1	1433.6	1416.8
42.5°	1513.4	1501.8	1525.4	1516.8	1508.6	1503.1	1507.6	1511.0	1519.2	1500.4
45°	1609.7	1596.3	1627.1	1616.8	1603.8	1592.5	1599.7	1604.9	1616.8	1594.2
47.5°	1715.8	1700.8	1733.6	1730.6	1709.3	1684.7	1701.1	1715.8	1724.7	1697.3
50°	1819.6	1808.0	1851.1	1854.9	1828.8	1794.3	1817.2	1839.5	1841.9	1805.9
52.5°	1916.9	1905.2	1967.9	1991.5	1968.2	1927.1	1951.5	1974.1	1955.9	1909.3
55°	1994.6	1985.0	2064.8	2125.8	2133.6	2099.7	2114.1	2113.4	2053.9	1982.3
57.5°	2013.4	2012.1	2112.8	2241.9	2324.1	2328.2	2299.8	2227.1	2098.7	2002.5
60°	1927.8	1936.4	2074.7	2302.5	2521.7	2612.8	2489.8	2282.6	2047.7	1914.1
62.5°	1671.6	1694.2	1861.0	2228.5	2681.3	2940.2	2642.2	2198.4	1838.1	1663.8
65°	1198.0	1237.4	1421.6	1901.8	2666.9	3227.9	2620.3	1886.4	1435.3	1234.3
67.5°	543.5	583.6	740.1	1302.1	2318.2	3149.8	2312.8	1315.8	777.1	585.6
70°	196.9	203.8	254.1	521.3	1481.6	2509.7	1544.9	525.0	270.2	217.1
72.5°	119.2	120.2	130.8	186.7	514.7	1523.7	536.7	192.8	133.6	118.5
75°	75.7	75.0	93.2	114.0	182.5	514.1	191.4	114.0	92.8	84.6
77.5°	54.5	56.2	66.8	85.3	115.1	174.3	113.0	81.5	66.8	54.8
80°	40.8	41.8	48.6	66.4	80.8	108.6	71.9	60.3	50.3	34.2
82.5°	29.5	29.5	31.9	48.3	49.3	58.6	39.0	42.5	33.2	24.3
85°	17.5	17.1	19.9	28.8	25.7	21.6	17.8	26.0	20.9	15.1
87.5°	6.2	6.5	6.2	8.2	6.8	5.8	5.5	7.2	5.8	5.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
812.4
817.2
828.5
845.6
866.1
887.4
910.7
942.5
978.5
1017.2
1060.7
1105.9
1155.2
1213.1
1278.1
1349.4
1422.3
1510.3
1605.9
1706.6
1810.3
1910.7
1984.7
1996.3
1898.4
1653.5
1219.6
577.1
214.4
120.6
85.3
55.8
35.3
24.3
14.7
4.8
0.0

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