

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: P949261

Luminaire Tested: **GALN-SB4A-827-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949261
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4A-827-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16372 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

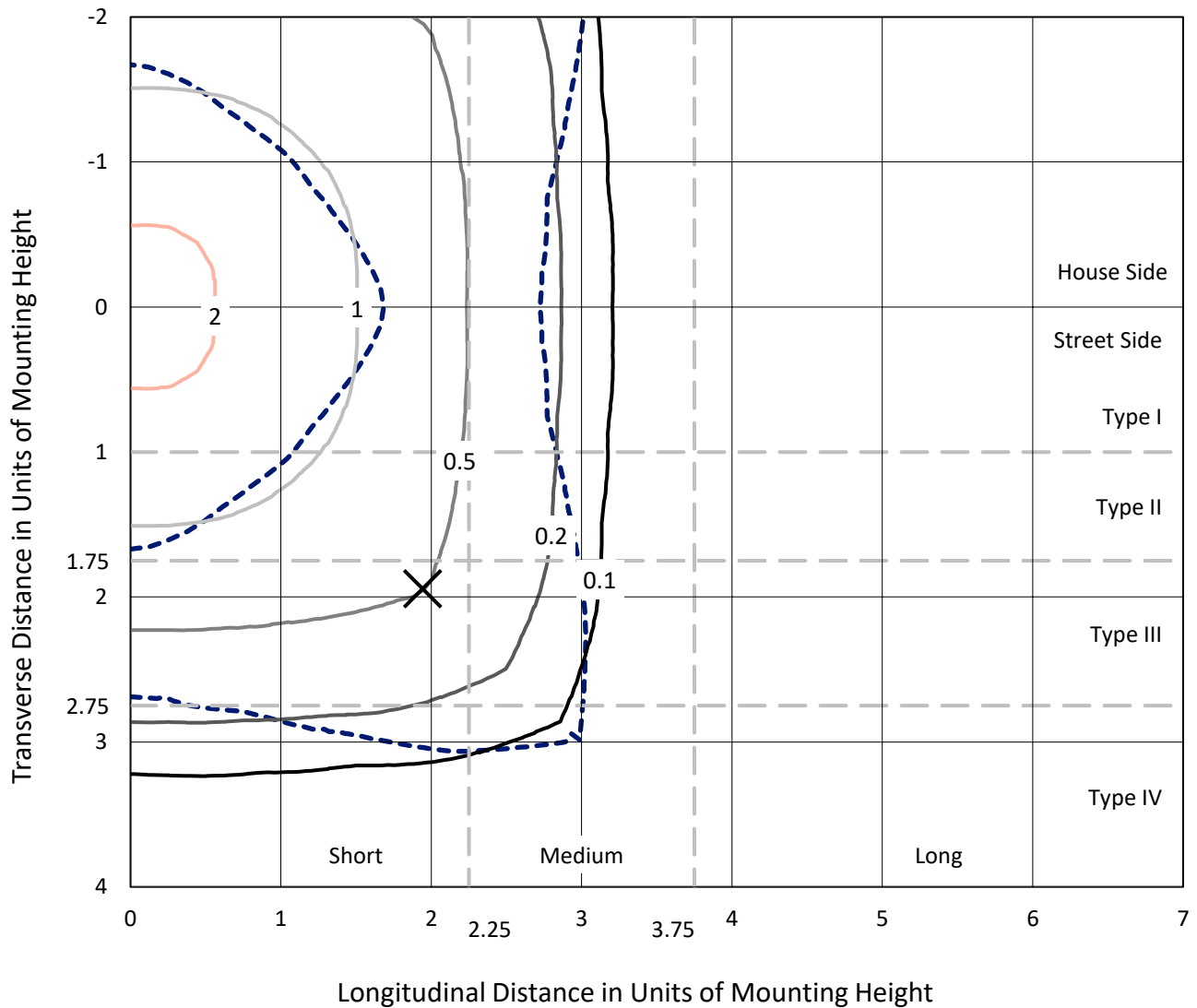
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

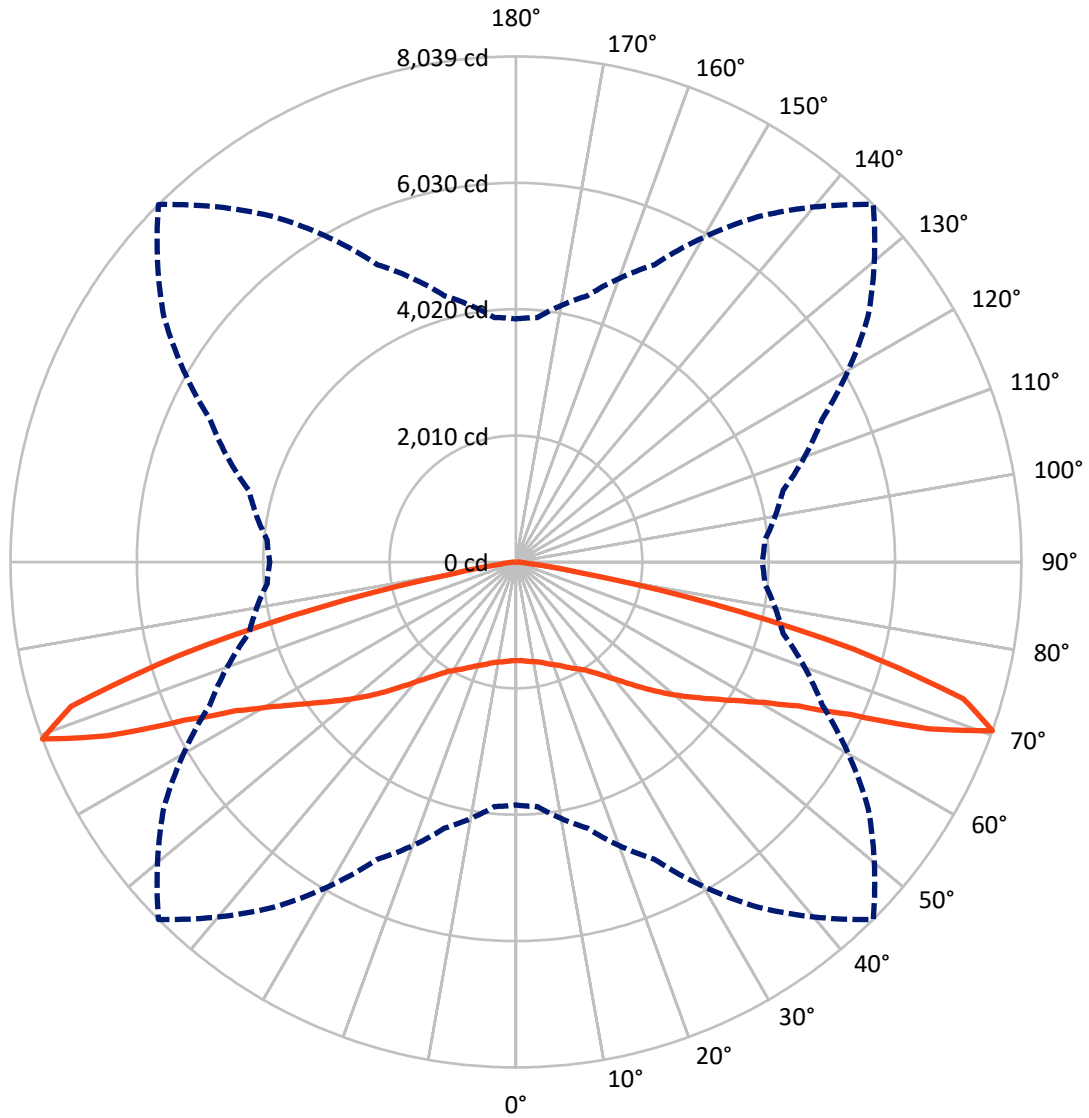
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	8186.0	0.0	8186.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8186.0	0.0	8186.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16372.0	0.0	16372.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.4	0.9
10°-20°	472.4	2.9
20°-30°	844.3	5.2
30°-40°	1368.6	8.4
40°-50°	2229.3	13.6
50°-60°	3398.8	20.8
60°-70°	5056.4	30.9
70°-80°	2755.9	16.8
80°-90°	93.8	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°	16372.0	100.0
0°-180°	16372.0	100.0

Coefficient of Utilization



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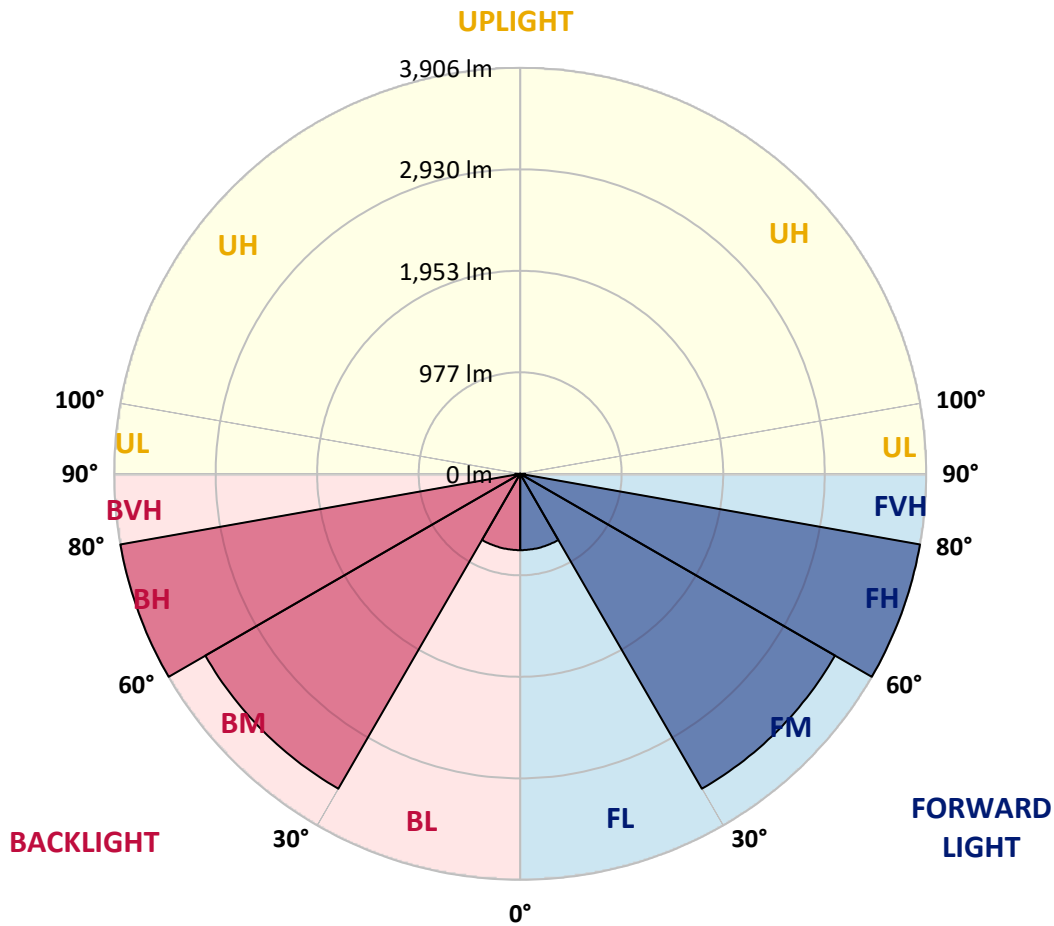
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	734.6	4.5			
FM (30°-60°)	3498.4	21.4			
FH (60°-80°)	3906.2	23.9			G2/5000
FVH (80°-90°)	46.9	0.3			G1/100
BL (0°-30°)	734.6	4.5	B2/1000		
BM (30°-60°)	3498.4	21.4	B3/5000		
BH (60°-80°)	3906.2	23.9	B4/5000		G2/5000
BVH (80°-90°)	46.9	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°
0°	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3	1568.3
2.5°	1575.7	1577.3	1574.0	1572.4	1570.7	1568.3	1569.1	1573.2	1576.5	1575.7
5°	1588.8	1590.5	1588.0	1587.2	1583.9	1583.1	1583.1	1587.2	1589.6	1588.0
7.5°	1603.6	1606.1	1602.0	1601.1	1599.5	1597.9	1597.0	1601.1	1603.6	1603.6
10°	1617.6	1620.1	1616.8	1614.3	1612.7	1612.7	1611.0	1614.3	1618.4	1617.6
12.5°	1632.4	1634.0	1630.7	1629.1	1629.1	1631.6	1629.1	1630.7	1634.0	1632.4
15°	1650.5	1651.3	1650.5	1652.9	1657.0	1665.3	1657.9	1656.2	1657.9	1653.8
17.5°	1675.1	1676.8	1680.1	1685.8	1691.6	1706.4	1693.2	1689.1	1689.1	1680.9
20°	1705.5	1708.0	1712.9	1722.8	1730.2	1744.2	1731.0	1725.3	1722.8	1712.1
22.5°	1737.6	1741.7	1749.1	1762.2	1775.4	1788.5	1775.4	1765.5	1758.1	1744.2
25°	1774.6	1779.5	1791.0	1812.4	1830.5	1849.4	1833.8	1814.0	1799.2	1779.5
27.5°	1827.2	1832.9	1846.9	1873.2	1896.2	1912.7	1897.9	1872.4	1851.8	1828.0
30°	1901.2	1906.9	1923.3	1951.3	1966.9	1977.6	1967.7	1948.0	1923.3	1896.2
32.5°	1996.5	2003.9	2022.0	2048.3	2051.6	2053.2	2049.9	2040.1	2022.0	1989.1
35°	2117.3	2125.5	2146.1	2167.5	2164.2	2167.5	2162.5	2159.2	2146.1	2108.3
37.5°	2265.3	2275.1	2296.5	2312.9	2304.7	2300.6	2301.4	2302.3	2294.9	2252.9
40°	2437.1	2450.2	2465.8	2483.1	2469.1	2456.8	2465.0	2471.6	2465.0	2422.3
42.5°	2613.8	2632.7	2649.1	2673.8	2662.3	2646.7	2658.2	2665.6	2651.6	2605.6
45°	2810.2	2828.3	2849.7	2886.7	2878.4	2862.0	2878.4	2880.1	2856.3	2802.0
47.5°	3013.2	3032.1	3064.2	3113.5	3110.2	3092.2	3113.5	3102.0	3071.6	3006.7
50°	3205.6	3231.9	3281.2	3350.2	3356.8	3334.6	3363.4	3341.2	3290.2	3208.9
52.5°	3386.4	3414.4	3492.4	3586.1	3610.0	3581.2	3619.8	3581.2	3504.8	3400.4
55°	3576.3	3607.5	3700.4	3822.9	3870.5	3849.2	3885.3	3827.0	3718.5	3591.9
57.5°	3799.8	3818.7	3929.7	4075.2	4155.7	4160.7	4177.1	4078.5	3947.0	3803.1
60°	4042.3	4068.6	4189.4	4363.7	4491.1	4532.2	4514.9	4368.6	4215.7	4050.5
62.5°	4353.0	4381.8	4526.4	4735.2	4936.6	5038.5	4971.1	4759.1	4570.0	4371.9
65°	4610.3	4642.3	4903.7	5276.1	5642.6	5847.3	5678.0	5287.6	4947.3	4667.8
67.5°	4423.7	4463.2	4873.3	5557.2	6468.7	7079.4	6499.9	5641.0	4974.4	4595.5
70°	3866.4	3903.4	4381.8	5217.7	6701.3	8039.4	6841.0	5371.4	4397.4	3973.3
72.5°	2566.9	2686.1	3170.2	4173.0	5983.7	7439.4	6042.9	4088.3	2940.9	2561.2
75°	851.5	946.9	1277.3	2163.4	4007.8	5563.7	3815.5	1914.3	1011.8	728.2
77.5°	214.5	247.4	341.1	618.9	1598.7	3167.8	1439.2	505.5	275.4	192.3
80°	104.4	115.1	164.4	206.3	400.3	1006.9	375.6	194.0	129.9	100.3
82.5°	57.5	58.4	92.9	116.7	148.8	260.6	154.5	113.4	74.8	60.8
85°	35.3	34.5	49.3	62.5	62.5	92.9	74.0	62.5	42.7	37.8
87.5°	14.0	14.0	18.1	19.7	17.3	23.8	18.9	20.5	16.4	15.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1568.3
1576.5
1588.8
1603.6
1617.6
1631.6
1653.8
1680.9
1712.1
1743.3
1778.7
1827.2
1896.2
1989.9
2108.3
2252.9
2422.3
2608.8
2807.8
3002.6
3207.2
3390.5
3574.6
3783.4
4024.2
4337.4
4621.8
4538.8
3916.6
2478.2
688.8
171.8
92.1
60.8
39.5
16.4
0.0

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