

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: P947182

Luminaire Tested: **GALN-SB2C-840-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P947182  
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-SB2C-840-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(2) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

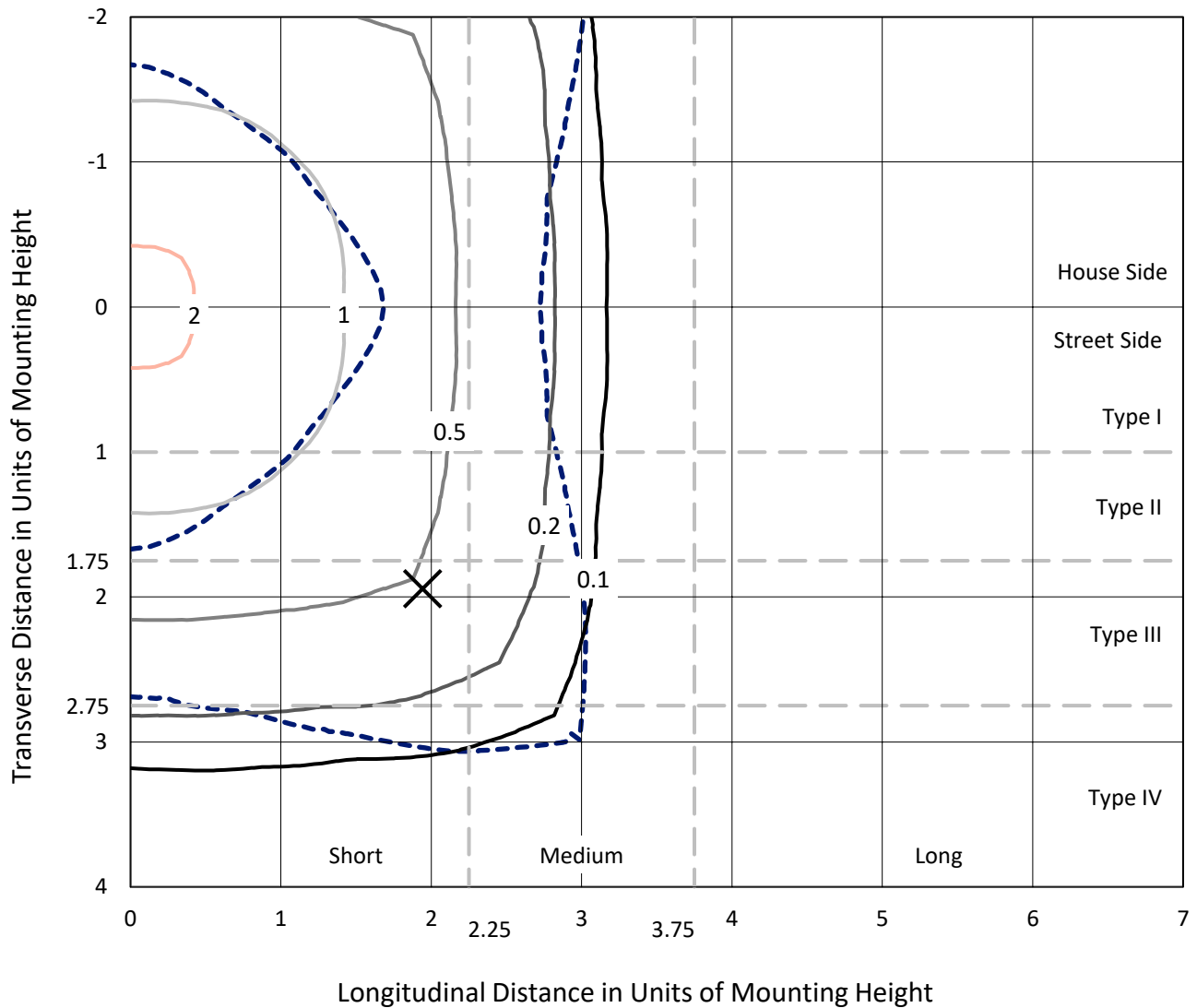
Lumens per Lamp: N/A  
Luminaire Lumens: 15003 lumens  
Efficiency: N/A  
Efficacy: 148.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

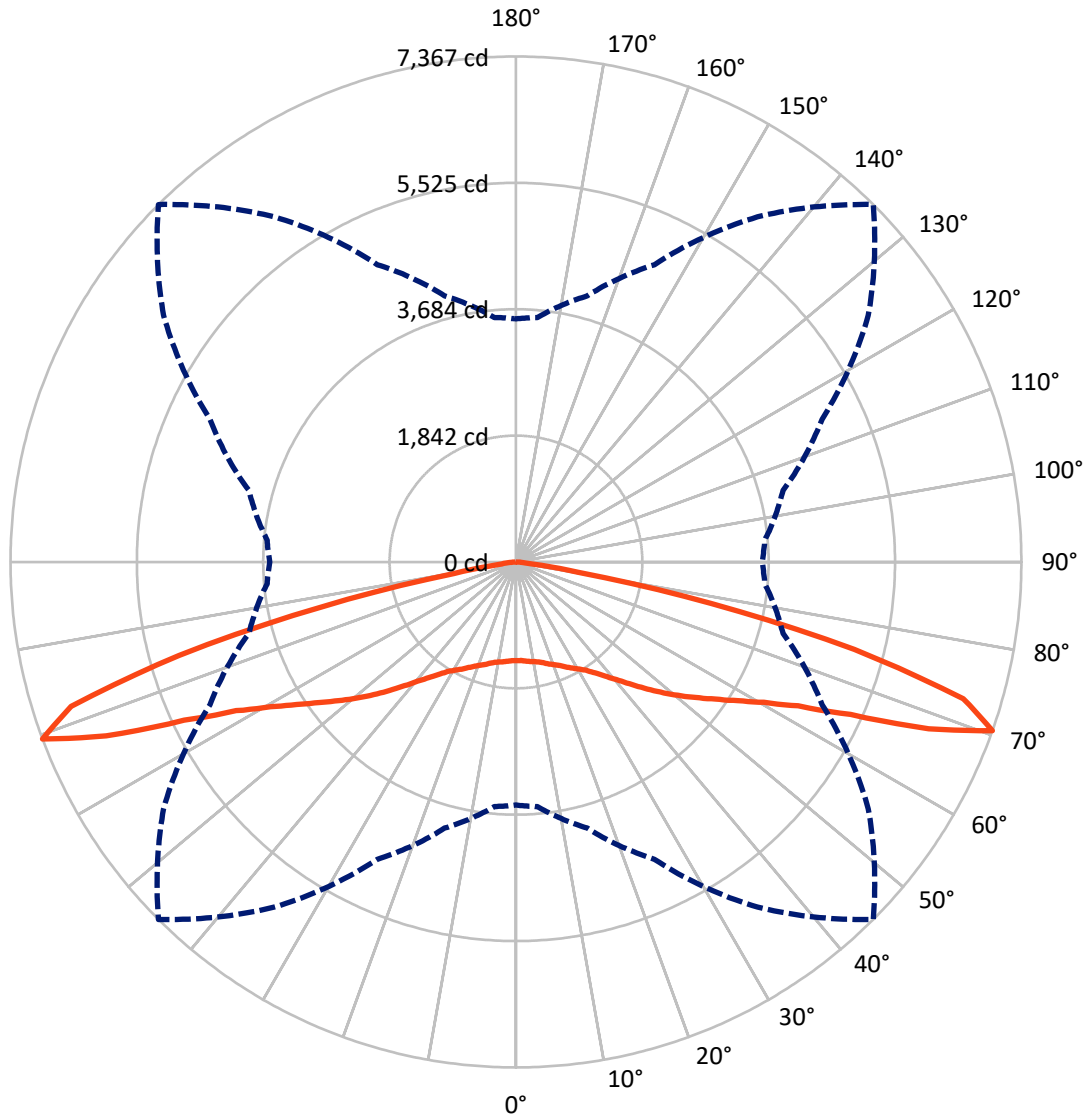
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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
<b>House Side</b>	Lumens	7501.5	0.0	7501.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7501.5	0.0	7501.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15003.0	0.0	15003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.6	0.9
10°-20°	432.9	2.9
20°-30°	773.7	5.2
30°-40°	1254.2	8.4
40°-50°	2042.9	13.6
50°-60°	3114.6	20.8
60°-70°	4633.6	30.9
70°-80°	2525.5	16.8
80°-90°	86.0	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°	15003.0	100.0
0°-180°	15003.0	100.0

**Coefficient of Utilization**



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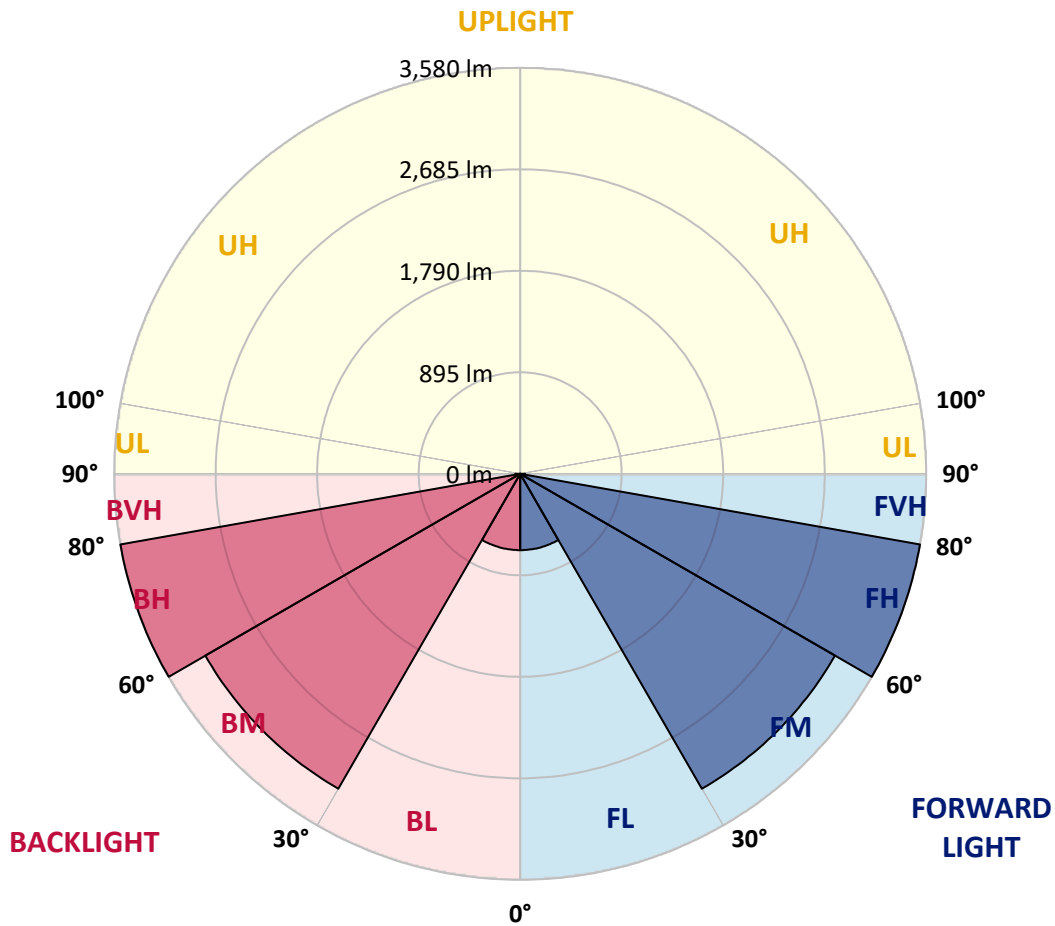
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.1	4.5			
FM (30°-60°)	3205.8	21.4			
FH (60°-80°)	3579.5	23.9			G2/5000
FVH (80°-90°)	43.0	0.3			G1/100
BL (0°-30°)	673.1	4.5	B2/1000		
BM (30°-60°)	3205.8	21.4	B3/5000		
BH (60°-80°)	3579.5	23.9	B4/5000		G2/5000
BVH (80°-90°)	43.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1	1437.1
2.5°	1443.9	1445.4	1442.4	1440.9	1439.4	1437.1	1437.9	1441.7	1444.7	1443.9
5°	1456.0	1457.5	1455.2	1454.5	1451.4	1450.7	1450.7	1454.5	1456.7	1455.2
7.5°	1469.5	1471.8	1468.0	1467.3	1465.8	1464.2	1463.5	1467.3	1469.5	1469.5
10°	1482.3	1484.6	1481.6	1479.3	1477.8	1477.8	1476.3	1479.3	1483.1	1482.3
12.5°	1495.9	1497.4	1494.4	1492.9	1492.9	1495.1	1492.9	1494.4	1497.4	1495.9
15°	1512.5	1513.2	1512.5	1514.7	1518.5	1526.0	1519.2	1517.7	1519.2	1515.5
17.5°	1535.0	1536.6	1539.6	1544.8	1550.1	1563.7	1551.6	1547.9	1547.9	1540.3
20°	1562.9	1565.2	1569.7	1578.7	1585.5	1598.3	1586.3	1581.0	1578.7	1568.9
22.5°	1592.3	1596.1	1602.8	1614.9	1626.9	1639.0	1626.9	1617.9	1611.1	1598.3
25°	1626.2	1630.7	1641.3	1660.8	1677.4	1694.7	1680.4	1662.3	1648.8	1630.7
27.5°	1674.4	1679.7	1692.5	1716.6	1737.7	1752.7	1739.2	1715.8	1697.0	1675.1
30°	1742.2	1747.5	1762.5	1788.1	1802.4	1812.2	1803.2	1785.1	1762.5	1737.7
32.5°	1829.6	1836.3	1852.9	1877.0	1880.0	1881.5	1878.5	1869.5	1852.9	1822.8
35°	1940.3	1947.8	1966.6	1986.2	1983.2	1986.2	1981.7	1978.7	1966.6	1932.0
37.5°	2075.9	2084.9	2104.5	2119.5	2112.0	2108.2	2109.0	2109.8	2103.0	2064.6
40°	2233.3	2245.3	2259.6	2275.5	2262.7	2251.4	2258.9	2264.9	2258.9	2219.7
42.5°	2395.2	2412.5	2427.6	2450.2	2439.7	2425.3	2435.9	2442.7	2429.9	2387.7
45°	2575.2	2591.8	2611.4	2645.3	2637.8	2622.7	2637.8	2639.3	2617.4	2567.7
47.5°	2761.3	2778.6	2808.0	2853.2	2850.2	2833.6	2853.2	2842.6	2814.8	2755.3
50°	2937.5	2961.6	3006.8	3070.1	3076.1	3055.8	3082.2	3061.8	3015.1	2940.5
52.5°	3103.2	3128.9	3200.4	3286.3	3308.1	3281.8	3317.2	3281.8	3211.7	3116.0
55°	3277.2	3305.9	3391.0	3503.2	3546.9	3527.3	3560.4	3507.0	3407.5	3291.5
57.5°	3482.1	3499.4	3601.1	3734.4	3808.2	3812.8	3827.8	3737.4	3616.9	3485.1
60°	3704.3	3728.4	3839.1	3998.8	4115.6	4153.2	4137.4	4003.3	3863.2	3711.8
62.5°	3989.0	4015.4	4147.9	4339.3	4523.8	4617.2	4555.4	4361.1	4187.9	4006.3
65°	4224.8	4254.2	4493.7	4834.9	5170.8	5358.4	5203.2	4845.4	4533.6	4277.5
67.5°	4053.8	4090.0	4465.8	5092.5	5927.8	6487.4	5956.4	5169.3	4558.5	4211.2
70°	3543.1	3577.0	4015.4	4781.4	6141.0	7367.2	6269.0	4922.3	4029.7	3641.0
72.5°	2352.3	2461.5	2905.1	3824.1	5483.4	6817.3	5537.6	3746.5	2695.0	2347.0
75°	780.3	867.7	1170.5	1982.5	3672.7	5098.5	3496.4	1754.2	927.2	667.3
77.5°	196.6	226.7	312.6	567.2	1465.0	2902.9	1318.9	463.2	252.3	176.3
80°	95.7	105.4	150.6	189.1	366.8	922.7	344.2	177.8	119.0	91.9
82.5°	52.7	53.5	85.1	107.0	136.3	238.8	141.6	103.9	68.5	55.7
85°	32.4	31.6	45.2	57.2	57.2	85.1	67.8	57.2	39.2	34.6
87.5°	12.8	12.8	16.6	18.1	15.8	21.8	17.3	18.8	15.1	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
1437.1
1444.7
1456.0
1469.5
1482.3
1495.1
1515.5
1540.3
1568.9
1597.6
1630.0
1674.4
1737.7
1823.5
1932.0
2064.6
2219.7
2390.7
2573.0
2751.5
2939.0
3107.0
3275.7
3467.0
3687.7
3974.7
4235.3
4159.2
3589.1
2270.9
631.2
157.4
84.4
55.7
36.2
15.1
0.0

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