

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: P949282

Luminaire Tested: **GALN-SB4A-830-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949282  
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-830-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

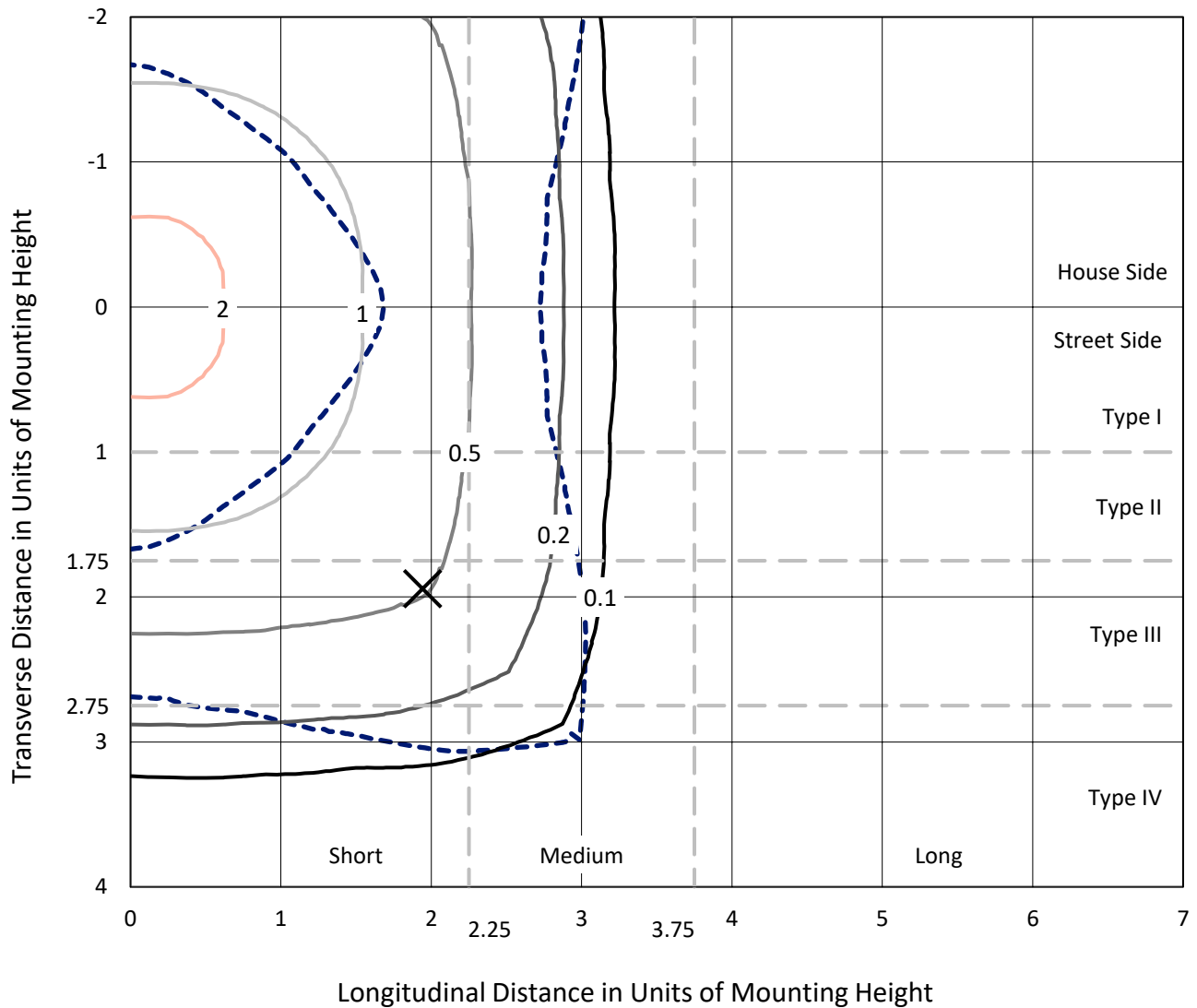
Lumens per Lamp: N/A  
Luminaire Lumens: 16918 lumens  
Efficiency: N/A  
Efficacy: 148.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

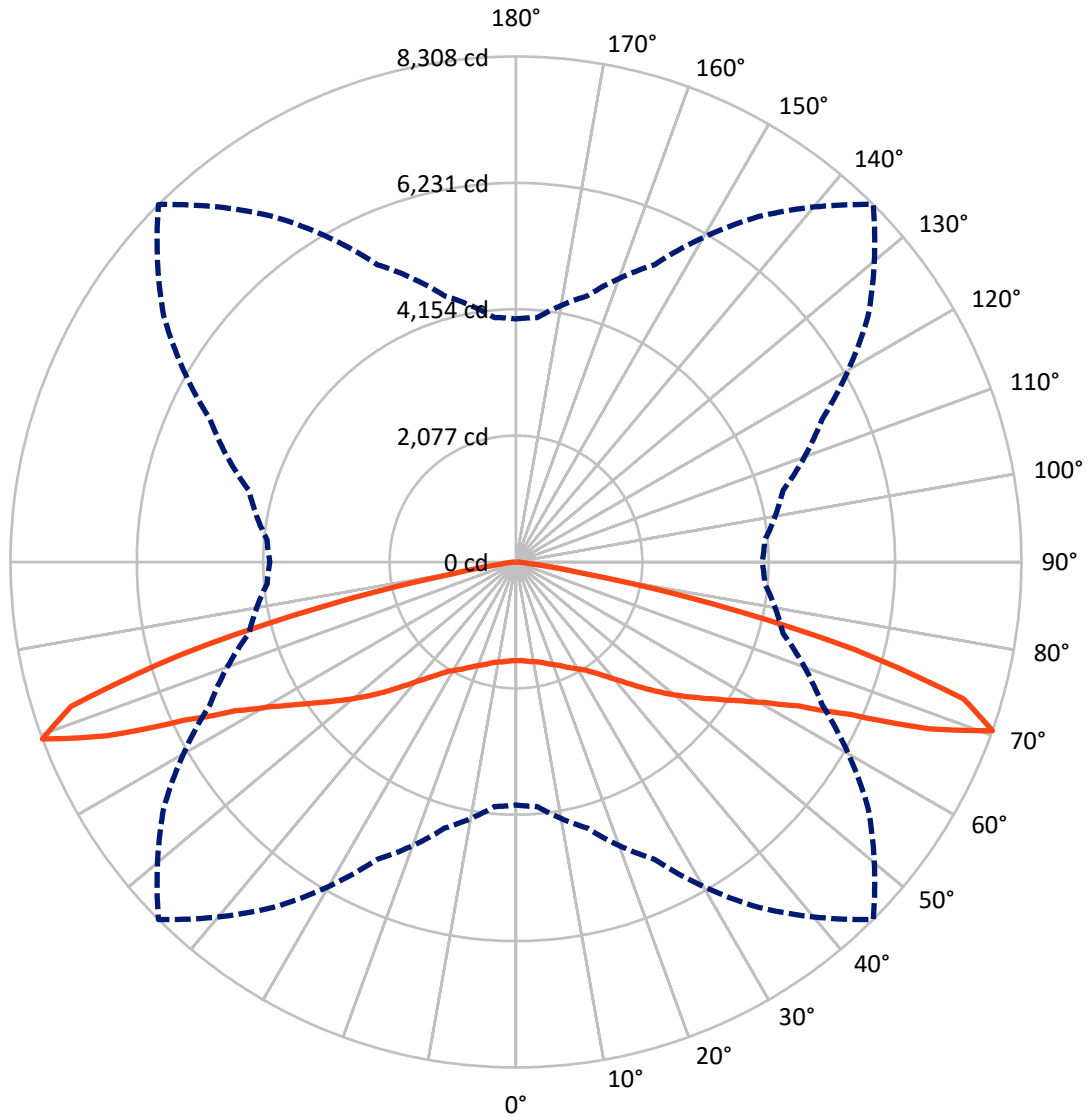
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 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	8459.0	0.0	8459.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8459.0	0.0	8459.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16918.0	0.0	16918.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	0.9
10°-20°	488.2	2.9
20°-30°	872.5	5.2
30°-40°	1414.3	8.4
40°-50°	2303.6	13.6
50°-60°	3512.2	20.8
60°-70°	5225.0	30.9
70°-80°	2847.8	16.8
80°-90°	97.0	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°	16918.0	100.0
0°-180°	16918.0	100.0



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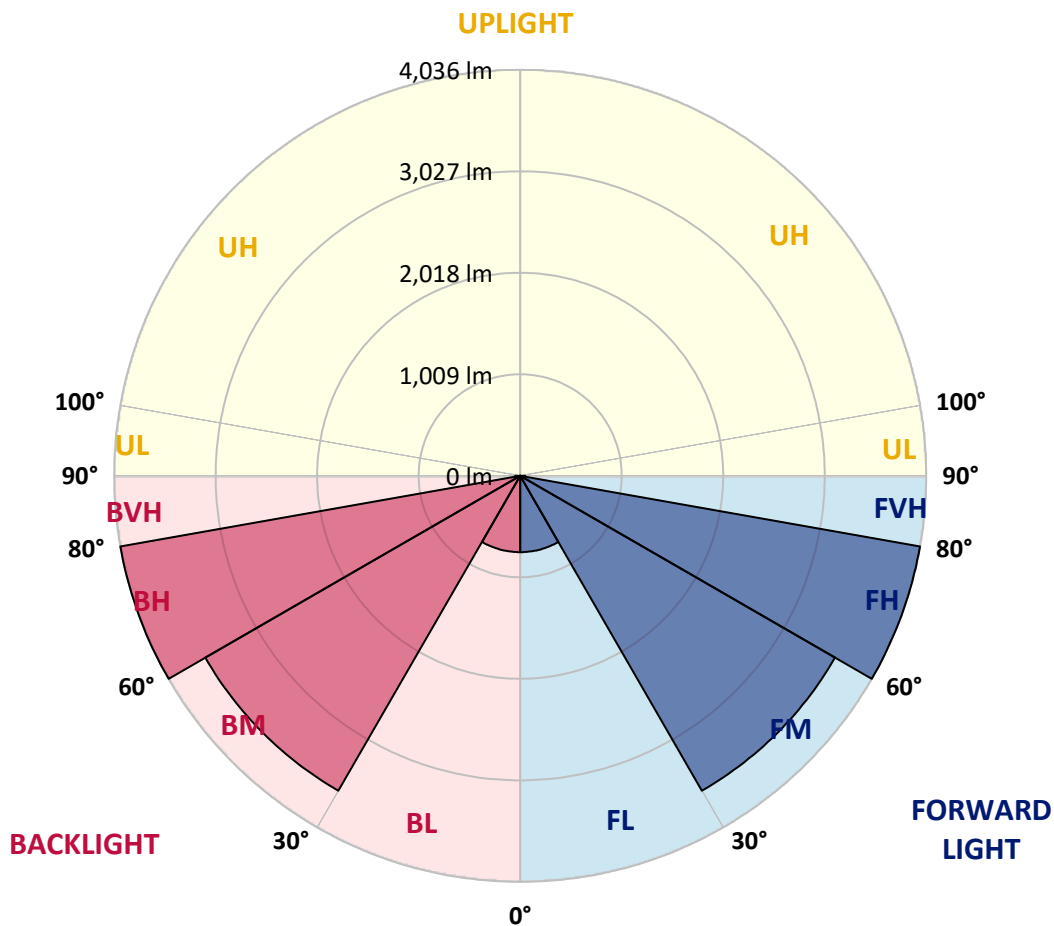
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	759.1	4.5			
FM (30°-60°)	3615.0	21.4			
FH (60°-80°)	4036.4	23.9			G2/5000
FVH (80°-90°)	48.5	0.3			G1/100
BL (0°-30°)	759.1	4.5	B2/1000		
BM (30°-60°)	3615.0	21.4	B3/5000		
BH (60°-80°)	4036.4	23.9	B4/5000		G2/5000
BVH (80°-90°)	48.5	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°	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1628.2	1629.9	1626.5	1624.8	1623.1	1620.6	1621.4	1625.7	1629.1	1628.2
5°	1641.8	1643.5	1641.0	1640.1	1636.7	1635.9	1635.9	1640.1	1642.7	1641.0
7.5°	1657.1	1659.6	1655.4	1654.5	1652.8	1651.1	1650.3	1654.5	1657.1	1657.1
10°	1671.5	1674.1	1670.7	1668.1	1666.4	1666.4	1664.7	1668.1	1672.4	1671.5
12.5°	1686.8	1688.5	1685.1	1683.4	1683.4	1686.0	1683.4	1685.1	1688.5	1686.8
15°	1705.5	1706.4	1705.5	1708.1	1712.3	1720.8	1713.1	1711.5	1713.1	1708.9
17.5°	1731.0	1732.7	1736.1	1742.0	1748.0	1763.3	1749.7	1745.4	1745.4	1736.9
20°	1762.4	1765.0	1770.1	1780.2	1787.9	1802.3	1788.7	1782.8	1780.2	1769.2
22.5°	1795.5	1799.8	1807.4	1821.0	1834.6	1848.2	1834.6	1824.4	1816.8	1802.3
25°	1833.8	1838.9	1850.7	1872.8	1891.5	1911.0	1894.9	1874.5	1859.2	1838.9
27.5°	1888.1	1894.1	1908.5	1935.7	1959.5	1976.4	1961.2	1934.8	1913.6	1889.0
30°	1964.6	1970.5	1987.5	2016.4	2032.5	2043.5	2033.4	2013.0	1987.5	1959.5
32.5°	2063.1	2070.7	2089.4	2116.6	2120.0	2121.7	2118.3	2108.1	2089.4	2055.4
35°	2187.9	2196.4	2217.7	2239.7	2236.4	2239.7	2234.7	2231.3	2217.7	2178.6
37.5°	2340.8	2351.0	2373.1	2390.1	2381.6	2377.3	2378.2	2379.0	2371.4	2328.1
40°	2518.3	2531.9	2548.1	2565.9	2551.5	2538.7	2547.2	2554.0	2547.2	2503.0
42.5°	2700.9	2720.5	2737.5	2763.0	2751.1	2734.9	2746.8	2754.5	2740.0	2692.5
45°	2903.9	2922.6	2944.7	2982.9	2974.4	2957.5	2974.4	2976.1	2951.5	2895.5
47.5°	3113.7	3133.3	3166.4	3217.4	3214.0	3195.3	3217.4	3205.5	3174.0	3106.9
50°	3312.5	3339.7	3390.6	3462.0	3468.8	3445.8	3475.6	3452.6	3400.0	3315.9
52.5°	3499.3	3528.2	3608.9	3705.7	3730.4	3700.6	3740.6	3700.6	3621.6	3513.8
55°	3695.5	3727.8	3823.8	3950.4	3999.6	3977.5	4014.9	3954.6	3842.5	3711.7
57.5°	3926.6	3946.1	4060.8	4211.1	4294.3	4299.4	4316.4	4214.5	4078.6	3930.0
60°	4177.1	4204.3	4329.2	4509.2	4640.9	4683.3	4665.5	4514.3	4356.3	4185.6
62.5°	4498.2	4527.9	4677.4	4893.1	5101.2	5206.5	5136.9	4917.8	4722.4	4517.7
65°	4764.0	4797.2	5067.3	5452.0	5830.8	6042.3	5867.3	5463.9	5112.3	4823.5
67.5°	4571.2	4612.0	5035.8	5742.5	6684.4	7315.5	6716.7	5829.1	5140.3	4748.7
70°	3995.4	4033.6	4527.9	5391.7	6924.8	8307.5	7069.2	5550.5	4544.0	4105.8
72.5°	2652.5	2775.7	3276.0	4312.2	6183.3	7687.5	6244.5	4224.7	3039.0	2646.6
75°	879.9	978.5	1319.9	2235.5	4141.5	5749.3	3942.7	1978.1	1045.6	752.5
77.5°	221.7	255.7	352.5	639.6	1652.0	3273.4	1487.2	522.4	284.5	198.7
80°	107.9	118.9	169.9	213.2	413.6	1040.5	388.2	200.4	134.2	103.6
82.5°	59.5	60.3	96.0	120.6	153.7	269.2	159.7	117.2	77.3	62.9
85°	36.5	35.7	51.0	64.6	64.6	96.0	76.4	64.6	44.2	39.1
87.5°	14.4	14.4	18.7	20.4	17.8	24.6	19.5	21.2	17.0	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
1620.6
1629.1
1641.8
1657.1
1671.5
1686.0
1708.9
1736.9
1769.2
1801.5
1838.0
1888.1
1959.5
2056.3
2178.6
2328.1
2503.0
2695.9
2901.4
3102.7
3314.2
3503.6
3693.8
3909.6
4158.4
4482.0
4775.9
4690.1
4047.2
2560.8
711.8
177.5
95.1
62.9
40.8
17.0
0.0

OF REPORT)