

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: P949156

Luminaire Tested: **GALN-SB4A-730-U-5MQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949156  
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-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

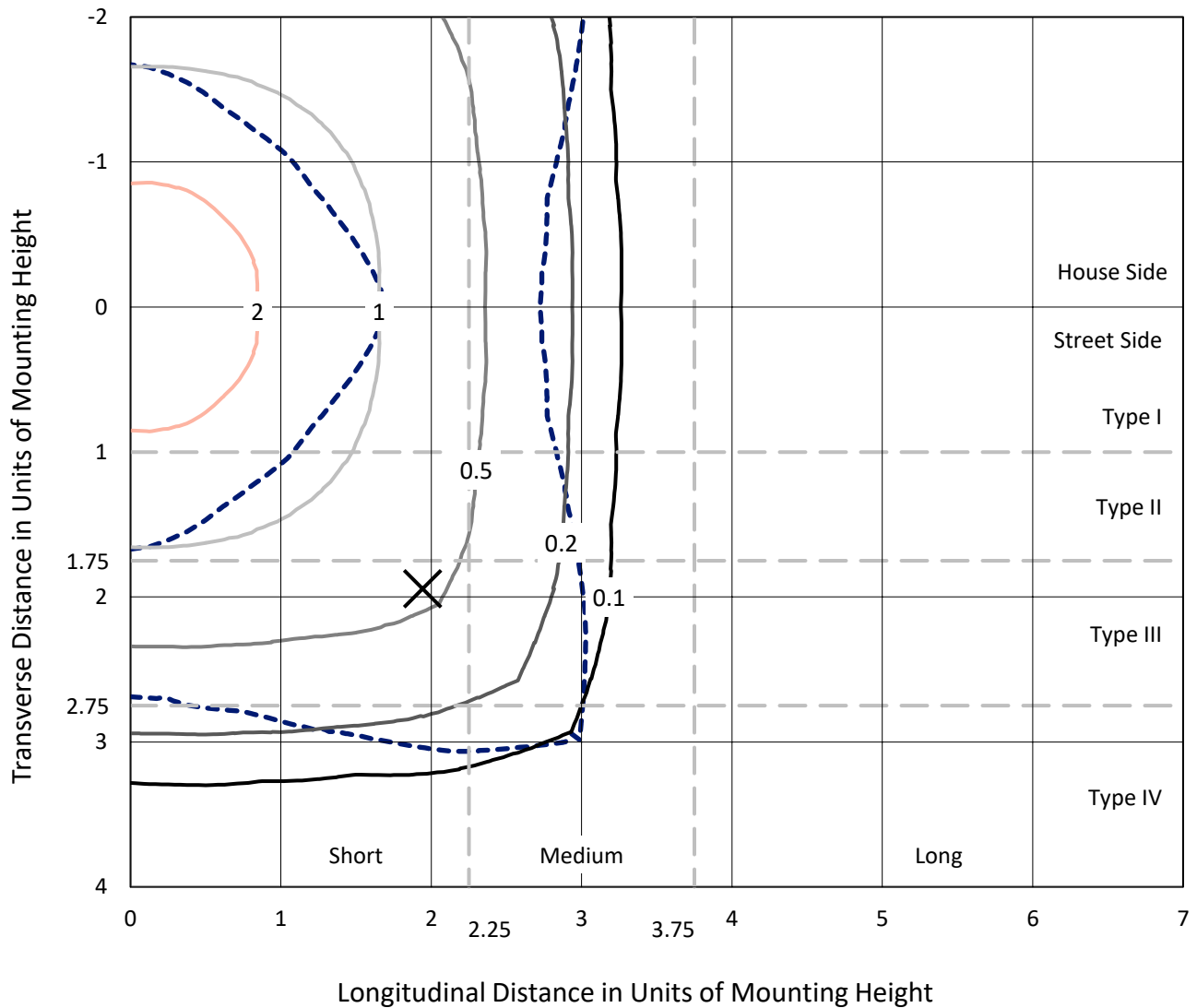
Lumens per Lamp: N/A  
Luminaire Lumens: 18828 lumens  
Efficiency: N/A  
Efficacy: 165.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 114  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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

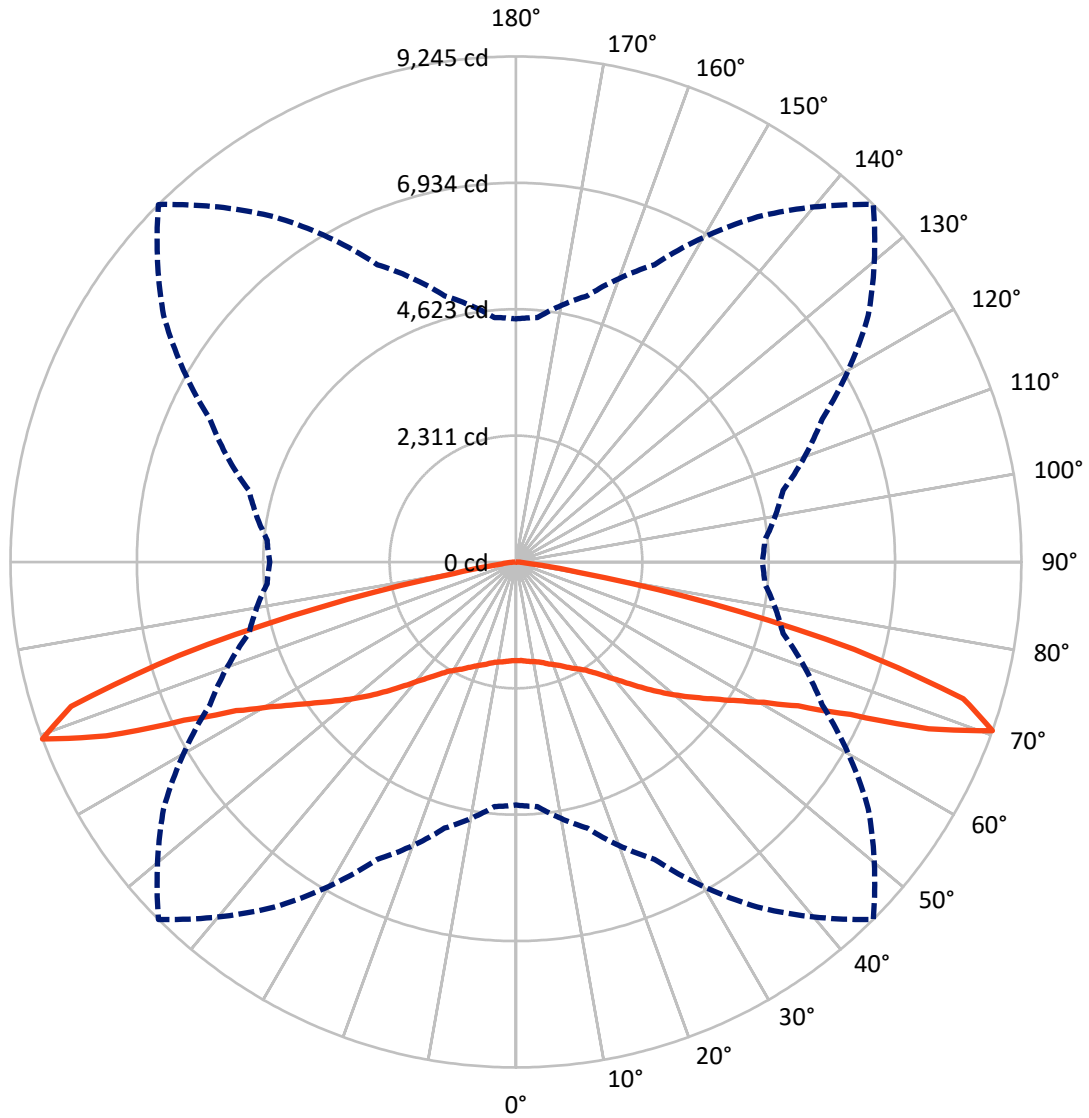
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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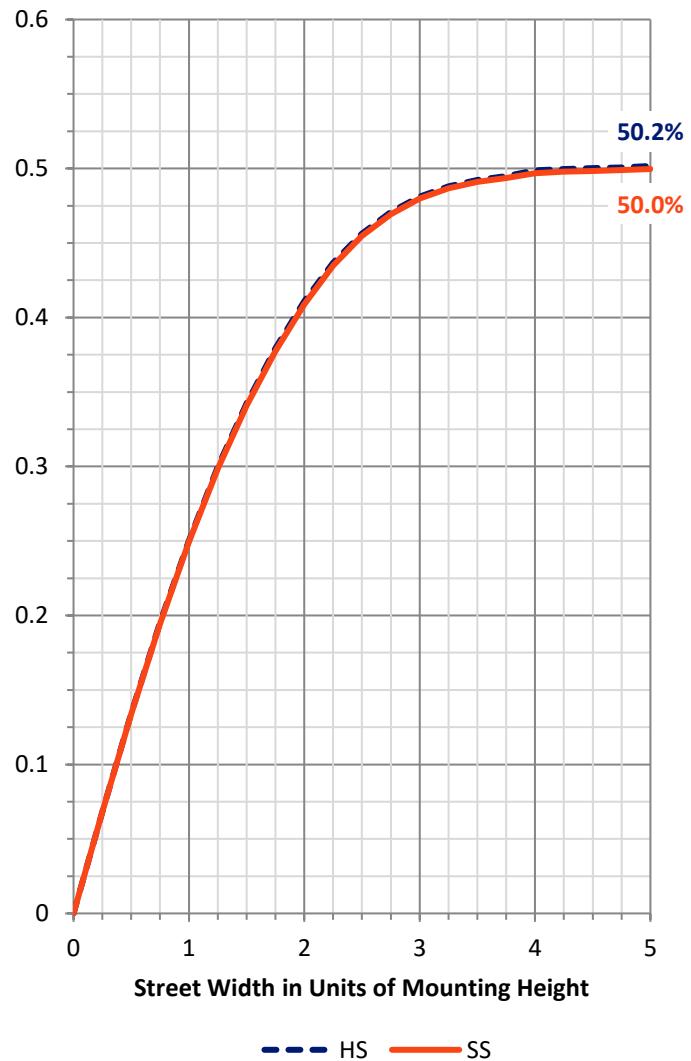
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9414.0	0.0	9414.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9414.0	0.0	9414.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18828.0	0.0	18828.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.2	0.9
10°-20°	543.3	2.9
20°-30°	971.0	5.2
30°-40°	1573.9	8.4
40°-50°	2563.7	13.6
50°-60°	3908.7	20.8
60°-70°	5814.9	30.9
70°-80°	3169.3	16.8
80°-90°	107.9	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°	18828.0	100.0
0°-180°	18828.0	100.0



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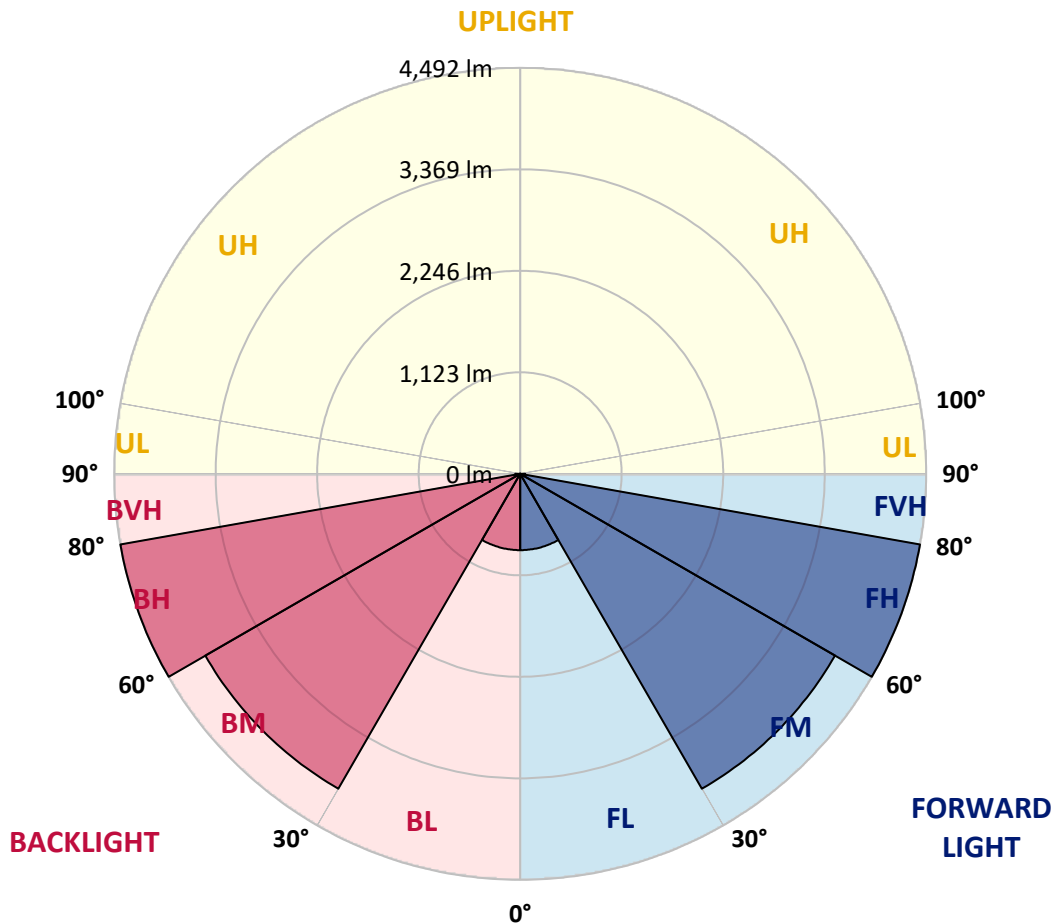
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	844.7	4.5			
FM (30°-60°)	4023.2	21.4			
FH (60°-80°)	4492.1	23.9			G2/5000
FVH (80°-90°)	54.0	0.3			G1/100
BL (0°-30°)	844.7	4.5	B2/1000		
BM (30°-60°)	4023.2	21.4	B3/5000		
BH (60°-80°)	4492.1	23.9	B4/5000		G2/5000
BVH (80°-90°)	54.0	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°	90°
0°	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5	1803.5
2.5°	1812.0	1813.9	1810.1	1808.3	1806.4	1803.5	1804.5	1809.2	1813.0	1812.0	1813.0
5°	1827.2	1829.0	1826.2	1825.3	1821.5	1820.5	1820.5	1825.3	1828.1	1826.2	1827.2
7.5°	1844.2	1847.0	1842.3	1841.3	1839.4	1837.6	1836.6	1841.3	1844.2	1844.2	1844.2
10°	1860.2	1863.1	1859.3	1856.5	1854.6	1854.6	1852.7	1856.5	1861.2	1860.2	1860.2
12.5°	1877.3	1879.1	1875.4	1873.5	1873.5	1876.3	1873.5	1875.4	1879.1	1877.3	1876.3
15°	1898.1	1899.0	1898.1	1900.9	1905.6	1915.1	1906.6	1904.7	1906.6	1901.8	1901.8
17.5°	1926.4	1928.3	1932.1	1938.7	1945.3	1962.3	1947.2	1942.5	1942.5	1933.0	1933.0
20°	1961.4	1964.2	1969.9	1981.2	1989.7	2005.8	1990.7	1984.1	1981.2	1968.9	1968.9
22.5°	1998.2	2003.0	2011.5	2026.6	2041.7	2056.9	2041.7	2030.4	2021.9	2005.8	2004.9
25°	2040.8	2046.5	2059.7	2084.3	2105.1	2126.8	2108.8	2086.2	2069.1	2046.5	2045.5
27.5°	2101.3	2107.9	2124.0	2154.2	2180.7	2199.6	2182.6	2153.3	2129.6	2102.2	2101.3
30°	2186.4	2193.0	2211.9	2244.0	2262.0	2274.3	2262.9	2240.2	2211.9	2180.7	2180.7
32.5°	2296.0	2304.5	2325.3	2355.6	2359.3	2361.2	2357.4	2346.1	2325.3	2287.5	2288.4
35°	2435.0	2444.4	2468.0	2492.6	2488.8	2492.6	2486.9	2483.2	2468.0	2424.6	2424.6
37.5°	2605.1	2616.4	2641.0	2659.9	2650.5	2645.7	2646.7	2647.6	2639.1	2590.9	2590.9
40°	2802.7	2817.8	2835.7	2855.6	2839.5	2825.3	2834.8	2842.4	2834.8	2785.6	2785.6
42.5°	3005.9	3027.6	3046.5	3074.9	3061.6	3043.7	3056.9	3065.4	3049.4	2996.4	3000.2
45°	3231.8	3252.6	3277.2	3319.7	3310.2	3291.3	3310.2	3312.1	3284.7	3222.3	3229.0
47.5°	3465.3	3487.0	3523.9	3580.6	3576.8	3556.0	3580.6	3567.4	3532.4	3457.7	3453.0
50°	3686.5	3716.7	3773.4	3852.8	3860.4	3834.9	3867.9	3842.4	3783.8	3690.2	3688.3
52.5°	3894.4	3926.5	4016.3	4124.1	4151.5	4118.4	4162.9	4118.4	4030.5	3910.5	3899.1
55°	4112.8	4148.7	4255.5	4396.3	4451.2	4426.6	4468.2	4401.1	4276.3	4130.7	4110.9
57.5°	4369.9	4391.6	4519.2	4686.5	4779.2	4784.8	4803.7	4690.3	4539.1	4373.6	4351.0
60°	4648.7	4679.0	4817.9	5018.3	5164.8	5212.1	5192.2	5024.0	4848.2	4658.2	4627.9
62.5°	5006.0	5039.1	5205.5	5445.6	5677.1	5794.4	5716.8	5473.0	5255.6	5027.8	4988.1
65°	5301.9	5338.7	5639.3	6067.5	6489.1	6724.5	6529.8	6080.8	5689.4	5368.0	5315.1
67.5°	5087.3	5132.7	5604.4	6390.8	7439.1	8141.4	7475.0	6487.2	5720.6	5284.9	5219.6
70°	4446.4	4489.0	5039.1	6000.4	7706.6	9245.4	7867.3	6177.2	5057.1	4569.3	4504.1
72.5°	2952.0	3089.1	3645.8	4799.0	6881.4	8555.4	6949.4	4701.6	3382.1	2945.4	2849.9
75°	979.3	1088.9	1468.9	2487.9	4609.0	6398.4	4387.8	2201.5	1163.6	837.5	792.1
77.5°	246.7	284.5	392.3	711.8	1838.5	3643.0	1655.1	581.3	316.7	221.2	197.6
80°	120.0	132.3	189.0	237.3	460.3	1157.9	432.0	223.1	149.3	115.3	105.9
82.5°	66.2	67.1	106.8	134.2	171.1	299.6	177.7	130.4	86.0	69.9	69.9
85°	40.6	39.7	56.7	71.8	71.8	106.8	85.1	71.8	49.2	43.5	45.4
87.5°	16.1	16.1	20.8	22.7	19.9	27.4	21.7	23.6	18.9	18.0	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)