

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: P949639

Luminaire Tested: **GALN-SB4B-830-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949639
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-SB4B-830-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21237 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

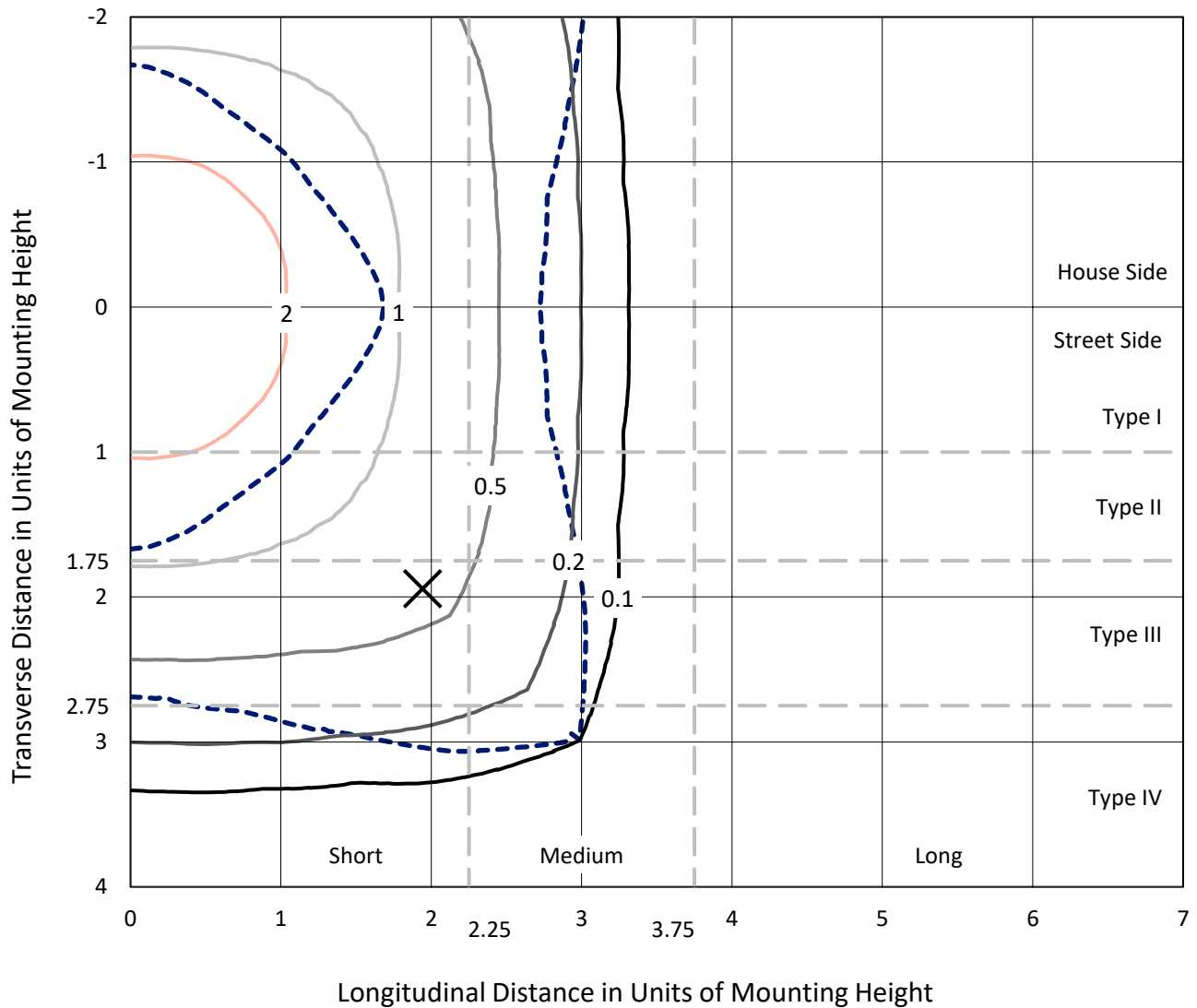
Input Watts (W): 147
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P949639
 CATALOG NUMBER: GALN-SB4B-830-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

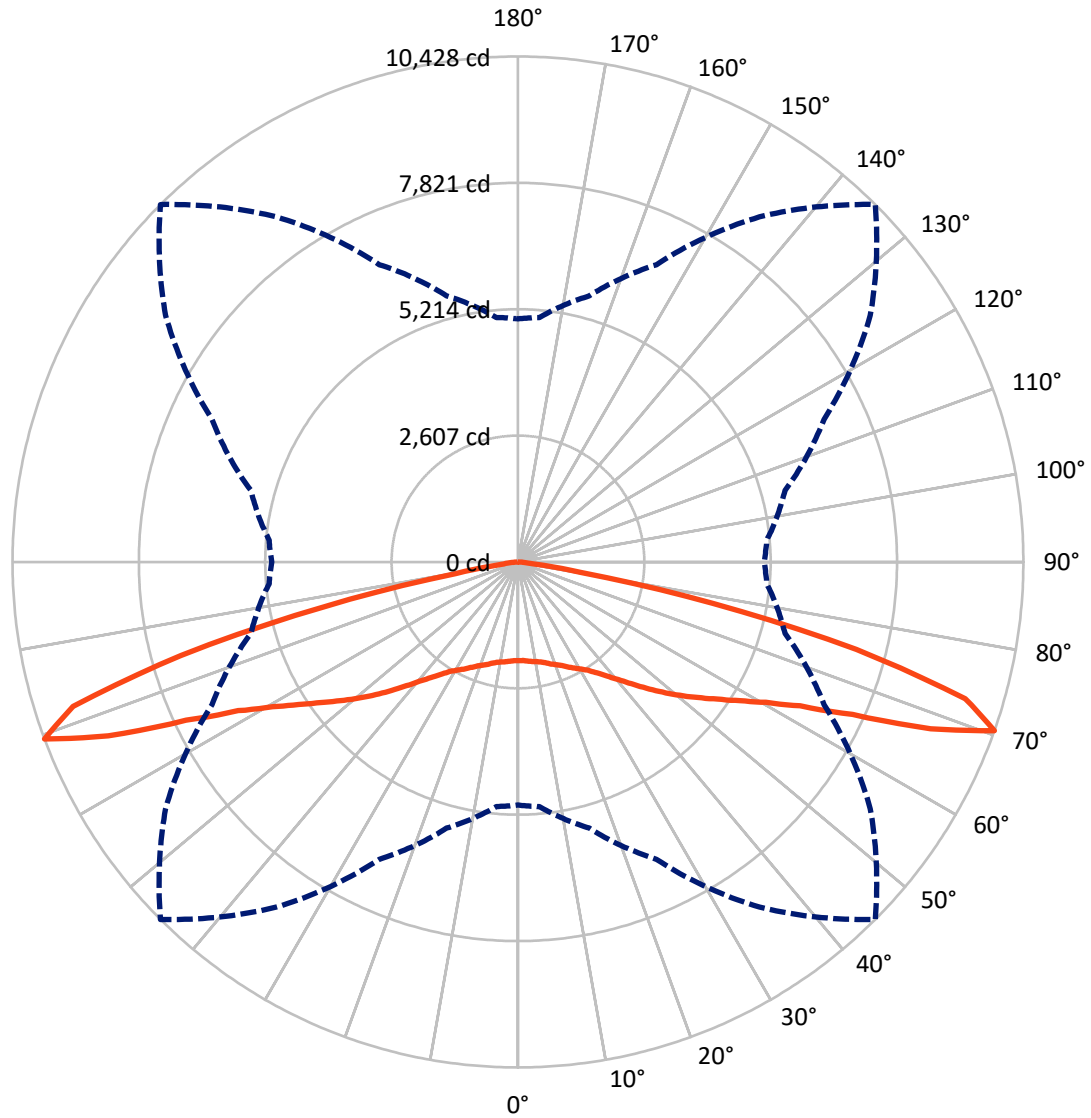
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - N/A

REPORT NUMBER: P949639
CATALOG NUMBER: GALN-SB4B-830-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P949639
 CATALOG NUMBER: GALN-SB4B-830-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10618.5	0.0	10618.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10618.5	0.0	10618.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21237.0	0.0	21237.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	0.9
10°-20°	612.8	2.9
20°-30°	1095.2	5.2
30°-40°	1775.3	8.4
40°-50°	2891.7	13.6
50°-60°	4408.8	20.8
60°-70°	6558.9	30.9
70°-80°	3574.8	16.8
80°-90°	121.7	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°	21237.0	100.0
0°-180°	21237.0	100.0



REPORT NUMBER: P949639

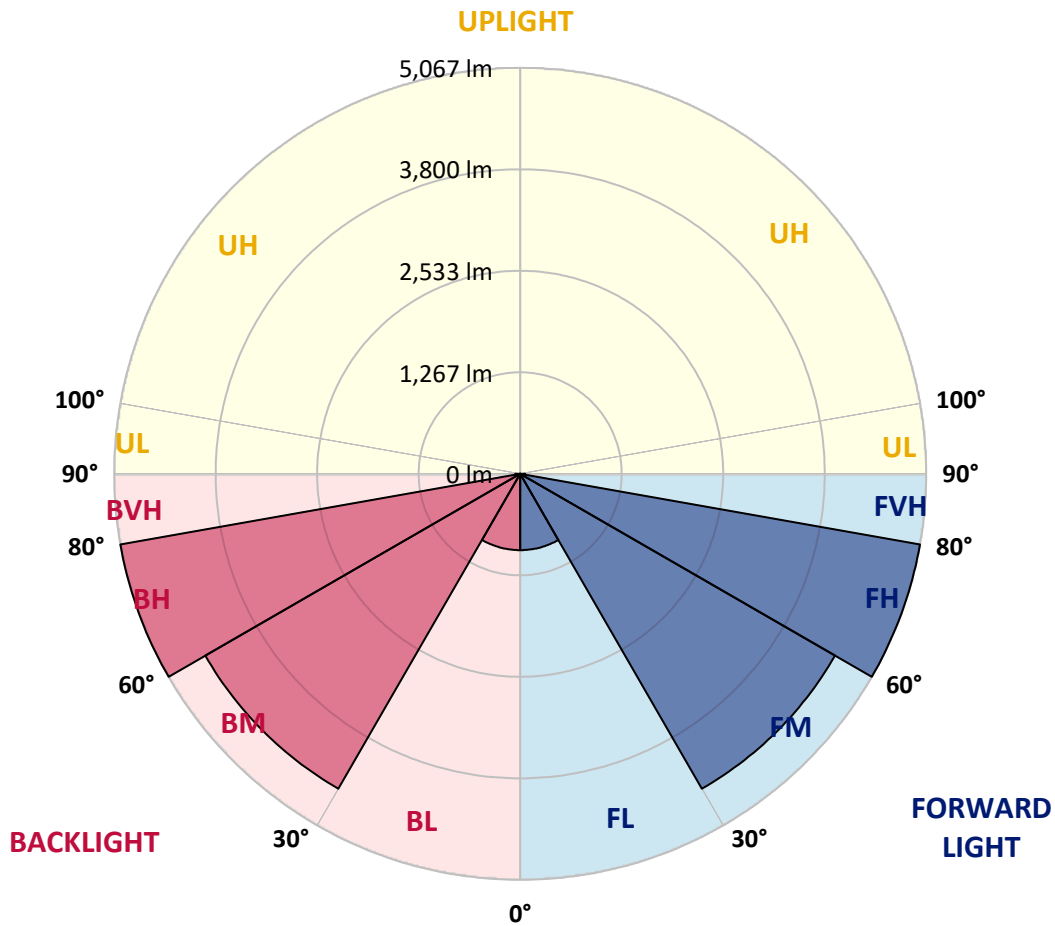
CATALOG NUMBER: GALN-SB4B-830-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	952.8	4.5			
FM (30°-60°)	4537.9	21.4			
FH (60°-80°)	5066.9	23.9			G3/7500
FVH (80°-90°)	60.9	0.3			G1/100
BL (0°-30°)	952.8	4.5	B2/1000		
BM (30°-60°)	4537.9	21.4	B3/5000		
BH (60°-80°)	5066.9	23.9	B5		G3/7500
BVH (80°-90°)	60.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P949639

CATALOG NUMBER: GALN-SB4B-830-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2034.3	2034.3	2034.3	2034.3	2034.3	2034.3	2034.3	2034.3	2034.3	2034.3
2.5°	2043.9	2046.0	2041.7	2039.6	2037.5	2034.3	2035.4	2040.7	2044.9	2043.9
5°	2060.9	2063.1	2059.9	2058.8	2054.5	2053.5	2053.5	2058.8	2062.0	2059.9
7.5°	2080.1	2083.3	2078.0	2076.9	2074.8	2072.7	2071.6	2076.9	2080.1	2080.1
10°	2098.3	2101.5	2097.2	2094.0	2091.9	2091.9	2089.7	2094.0	2099.3	2098.3
12.5°	2117.4	2119.6	2115.3	2113.2	2113.2	2116.4	2113.2	2115.3	2119.6	2117.4
15°	2140.9	2142.0	2140.9	2144.1	2149.4	2160.1	2150.5	2148.4	2150.5	2145.2
17.5°	2172.9	2175.0	2179.3	2186.7	2194.2	2213.4	2196.3	2191.0	2191.0	2180.4
20°	2212.3	2215.5	2221.9	2234.7	2244.3	2262.4	2245.4	2237.9	2234.7	2220.9
22.5°	2253.9	2259.3	2268.8	2285.9	2303.0	2320.0	2303.0	2290.2	2280.6	2262.4
25°	2301.9	2308.3	2323.2	2350.9	2374.4	2398.9	2378.7	2353.1	2333.9	2308.3
27.5°	2370.1	2377.6	2395.7	2429.8	2459.7	2481.0	2461.8	2428.8	2402.1	2371.2
30°	2466.1	2473.6	2494.9	2531.1	2551.4	2565.2	2552.5	2526.9	2494.9	2459.7
32.5°	2589.8	2599.4	2622.8	2656.9	2661.2	2663.3	2659.1	2646.3	2622.8	2580.2
35°	2746.5	2757.2	2783.8	2811.5	2807.3	2811.5	2805.1	2800.9	2783.8	2734.8
37.5°	2938.4	2951.2	2978.9	3000.3	2989.6	2984.3	2985.3	2986.4	2976.8	2922.4
40°	3161.2	3178.3	3198.6	3221.0	3202.8	3186.8	3197.5	3206.0	3197.5	3142.1
42.5°	3390.5	3415.0	3436.3	3468.3	3453.4	3433.1	3448.0	3457.6	3439.5	3379.8
45°	3645.3	3668.7	3696.5	3744.4	3733.8	3712.5	3733.8	3735.9	3705.0	3634.6
47.5°	3908.6	3933.2	3974.7	4038.7	4034.5	4011.0	4038.7	4023.8	3984.3	3900.1
50°	4158.1	4192.2	4256.2	4345.8	4354.3	4325.5	4362.8	4334.1	4267.9	4162.4
52.5°	4392.7	4428.9	4530.2	4651.8	4682.7	4645.4	4695.5	4645.4	4546.2	4410.8
55°	4639.0	4679.5	4800.0	4958.8	5020.7	4993.0	5039.9	4964.2	4823.4	4659.2
57.5°	4929.0	4953.5	5097.4	5286.2	5390.6	5397.0	5418.4	5290.4	5119.8	4933.2
60°	5243.5	5277.6	5434.4	5660.4	5825.6	5879.0	5856.6	5666.8	5468.5	5254.2
62.5°	5646.5	5683.8	5871.5	6142.3	6403.5	6535.7	6448.3	6173.2	5928.0	5671.0
65°	5980.2	6021.8	6360.9	6843.9	7319.4	7584.9	7365.2	6858.8	6417.4	6054.9
67.5°	5738.2	5789.4	6321.4	7208.5	8390.9	9183.1	8431.4	7317.2	6452.6	5961.1
70°	5015.3	5063.3	5683.8	6768.2	8692.6	10428.4	8873.9	6967.5	5704.1	5153.9
72.5°	3329.7	3484.3	4112.3	5413.0	7761.8	9650.1	7838.6	5303.2	3814.8	3322.2
75°	1104.6	1228.2	1656.9	2806.2	5198.7	7217.0	4949.2	2483.1	1312.5	944.6
77.5°	278.3	320.9	442.5	802.8	2073.7	4109.1	1866.9	655.7	357.2	249.5
80°	135.4	149.3	213.2	267.6	519.2	1306.1	487.2	251.6	168.5	130.1
82.5°	74.6	75.7	120.5	151.4	193.0	338.0	200.4	147.1	97.0	78.9
85°	45.8	44.8	64.0	81.0	81.0	120.5	96.0	81.0	55.4	49.0
87.5°	18.1	18.1	23.5	25.6	22.4	30.9	24.5	26.7	21.3	20.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2034.3
2044.9
2060.9
2080.1
2098.3
2116.4
2145.2
2180.4
2220.9
2261.4
2307.2
2370.1
2459.7
2581.2
2734.8
2922.4
3142.1
3384.1
3642.1
3894.8
4160.3
4398.0
4636.8
4907.7
5220.1
5626.3
5995.2
5887.5
5080.4
3214.6
893.5
222.8
119.4
78.9
51.2
21.3
0.0

OF REPORT)