

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: P947501

Luminaire Tested: **GALN-SB2D-830-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P947501
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2D-830-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18830 lumens
Efficiency: N/A
Efficacy: 127.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G4

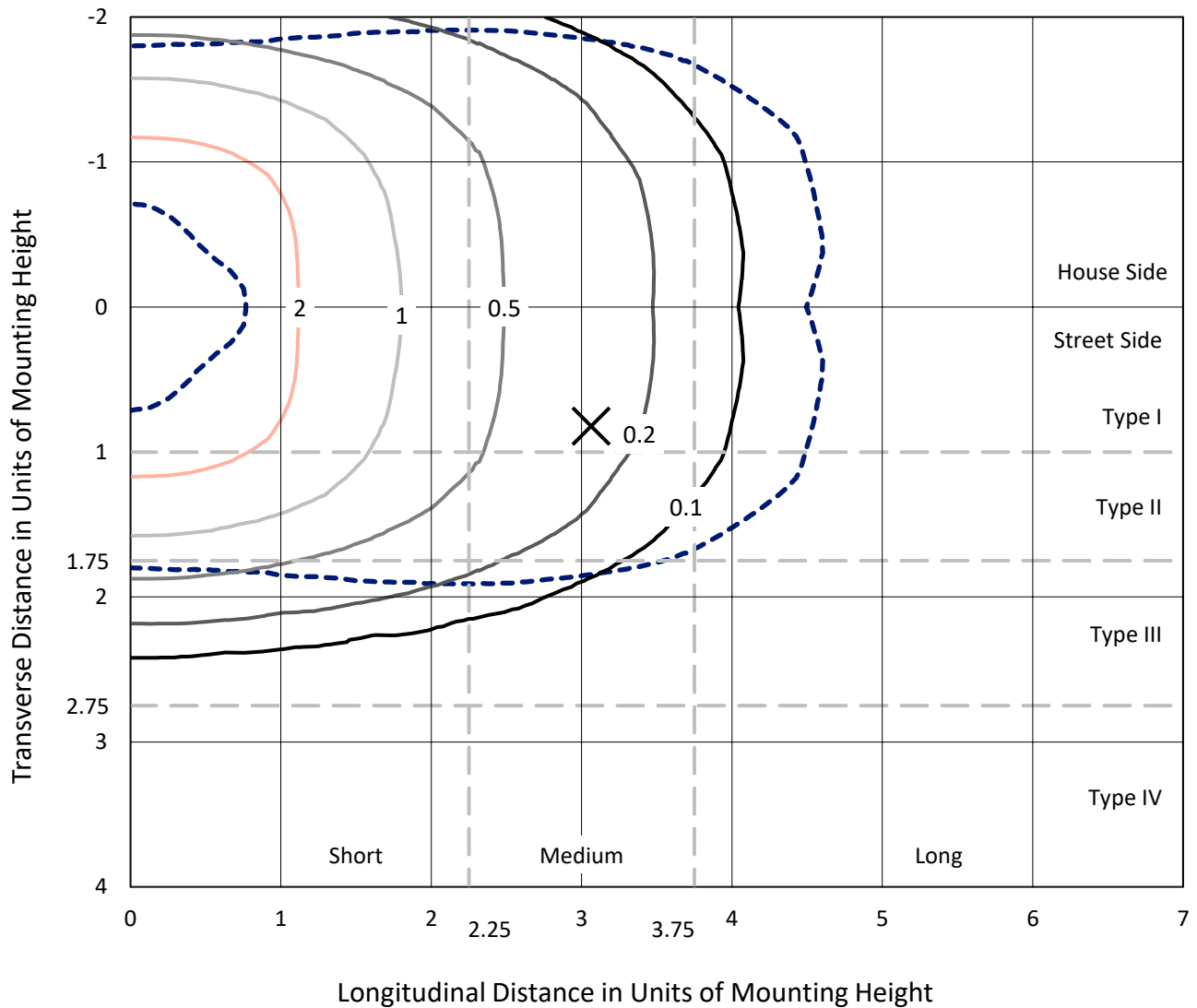
Input Watts (W): 147.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P947501
 CATALOG NUMBER: GALN-SB2D-830-U-RW

Iso-Footcandle Lines of Horizontal Illumination

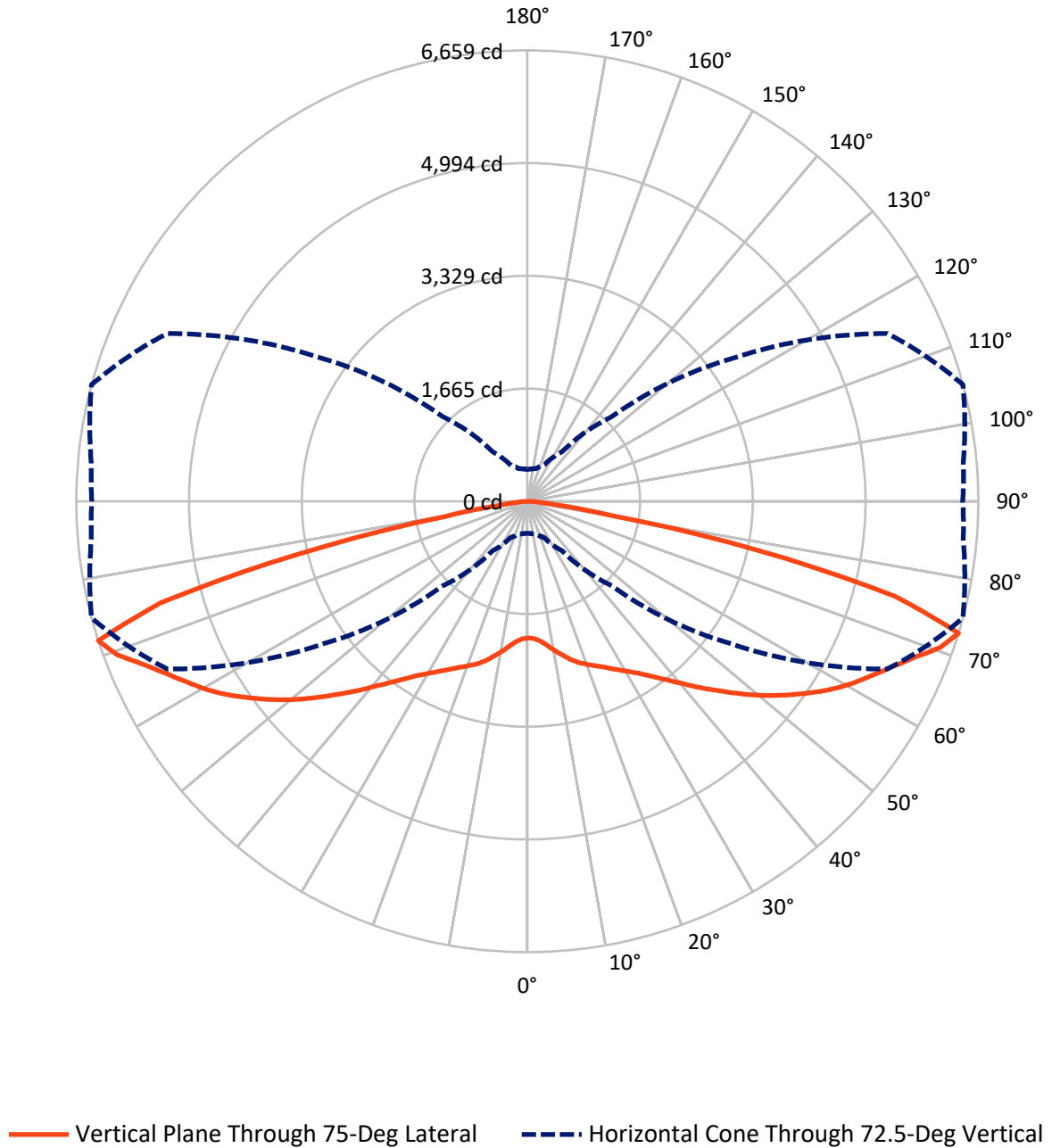
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

REPORT NUMBER: P947501
CATALOG NUMBER: GALN-SB2D-830-U-RW

Luminous Intensity Polar Plot



REPORT NUMBER: P947501
 CATALOG NUMBER: GALN-SB2D-830-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9415.0	0.0	9415.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9415.0	0.0	9415.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18830.0	0.0	18830.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.6	1.0
10°-20°	651.7	3.5
20°-30°	1259.2	6.7
30°-40°	2126.3	11.3
40°-50°	3372.1	17.9
50°-60°	4514.8	24.0
60°-70°	4296.6	22.8
70°-80°	2242.0	11.9
80°-90°	169.7	0.9
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°	18830.0	100.0
0°-180°	18830.0	100.0



REPORT NUMBER: P947501

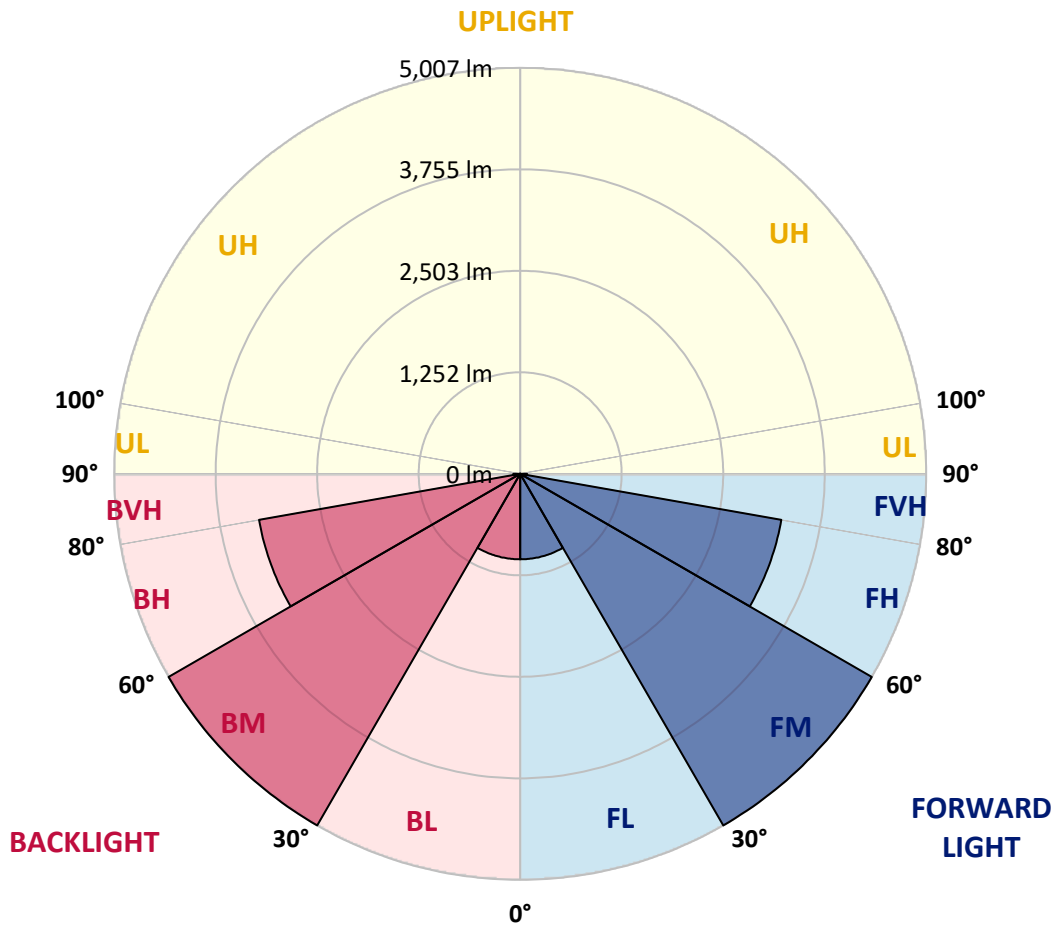
CATALOG NUMBER: GALN-SB2D-830-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1054.2	5.6			
FM (30°-60°)	5006.6	26.6			
FH (60°-80°)	3269.3	17.4			G2/5000
FVH (80°-90°)	84.9	0.5			G1/100
BL (0°-30°)	1054.2	5.6	B3/2500		
BM (30°-60°)	5006.6	26.6	B4/8500		
BH (60°-80°)	3269.3	17.4	B4/5000		G4/5000
BVH (80°-90°)	84.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Medium



REPORT NUMBER: P947501

CATALOG NUMBER: GALN-SB2D-830-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0	2017.0
2.5°	2017.0	2015.1	2017.0	2019.0	2018.0	2018.0	2022.8	2025.7	2031.5	2030.5
5°	2003.6	2002.6	2010.3	2019.0	2025.7	2037.2	2051.6	2062.2	2075.7	2078.6
7.5°	1996.8	1994.0	2007.4	2022.8	2043.9	2072.8	2100.7	2129.5	2152.6	2160.3
10°	2001.6	2002.6	2020.9	2049.7	2083.4	2123.7	2163.2	2212.2	2244.9	2252.6
12.5°	2023.8	2021.8	2052.6	2098.7	2144.9	2195.9	2242.0	2295.8	2331.4	2349.7
15°	2064.1	2060.3	2103.6	2171.8	2239.1	2298.7	2336.2	2387.2	2428.5	2451.6
17.5°	2112.2	2114.1	2170.9	2259.3	2347.8	2415.1	2450.6	2476.6	2508.3	2528.5
20°	2196.8	2200.7	2264.1	2368.9	2469.9	2546.8	2575.6	2566.0	2574.6	2590.0
22.5°	2310.3	2312.2	2383.3	2496.8	2602.5	2687.1	2706.4	2666.9	2642.9	2653.5
25°	2442.0	2454.5	2525.6	2641.9	2750.6	2831.3	2840.0	2780.4	2720.8	2723.7
27.5°	2602.5	2614.1	2686.2	2801.5	2912.1	2982.3	2981.3	2901.5	2814.0	2791.9
30°	2776.5	2789.0	2863.1	2982.3	3085.2	3146.7	3133.2	3038.0	2913.1	2871.7
32.5°	2983.2	2990.9	3065.9	3185.1	3280.3	3329.3	3301.5	3184.2	3028.4	2981.3
35°	3233.2	3244.7	3300.5	3413.0	3496.6	3537.0	3489.9	3351.5	3176.5	3123.6
37.5°	3518.7	3511.1	3574.5	3674.5	3743.7	3768.7	3704.3	3539.9	3345.7	3283.2
40°	3816.8	3812.9	3882.2	3978.3	4015.8	4031.2	3936.0	3756.2	3540.9	3473.6
42.5°	4086.9	4084.1	4177.3	4284.0	4329.2	4311.9	4191.7	3986.0	3766.8	3689.9
45°	4303.3	4299.4	4413.8	4563.8	4652.2	4623.4	4461.9	4239.8	3995.6	3915.8
47.5°	4469.6	4471.5	4594.6	4780.1	4934.9	4945.5	4737.8	4498.4	4247.5	4157.1
50°	4589.8	4595.5	4727.2	4933.0	5144.5	5237.7	5019.5	4763.8	4508.0	4406.1
52.5°	4619.6	4630.1	4788.8	5030.1	5279.1	5456.9	5306.0	5018.5	4755.1	4658.0
55°	4460.9	4482.1	4683.0	5022.4	5361.8	5601.2	5557.9	5277.2	5004.1	4904.1
57.5°	4096.6	4126.4	4360.9	4804.1	5343.5	5700.2	5753.1	5525.2	5253.1	5157.0
60°	3586.0	3621.6	3846.6	4330.2	5085.8	5736.7	5890.5	5766.5	5481.9	5388.7
62.5°	2816.0	2862.1	3131.3	3698.5	4541.7	5566.5	6007.8	5984.8	5687.7	5571.3
65°	1806.5	1855.5	2139.1	2809.2	3815.8	5045.5	6044.4	6197.2	5905.0	5742.5
67.5°	1089.3	1111.4	1251.8	1702.7	2789.0	4260.0	5734.8	6432.8	6158.8	5956.9
70°	697.0	709.5	793.2	999.9	1576.7	3108.2	4967.6	6477.0	6466.4	6177.0
72.5°	473.0	476.9	499.0	592.2	892.2	1766.1	3663.9	5863.6	6658.7	6460.6
75°	346.1	367.3	402.8	419.2	506.7	882.6	2099.7	4119.6	5611.7	5698.3
77.5°	257.7	258.6	307.6	326.9	361.5	470.1	888.3	2299.7	3484.1	3658.2
80°	218.2	206.7	205.7	263.4	272.1	293.2	397.1	794.1	1247.9	756.6
82.5°	181.7	169.2	152.9	205.7	185.6	179.8	172.1	323.0	397.1	195.2
85°	126.9	121.1	115.4	134.6	105.8	90.4	82.7	150.9	167.3	82.7
87.5°	54.8	56.7	57.7	59.6	44.2	31.7	31.7	42.3	42.3	32.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
2017.0
2029.5
2078.6
2162.2
2260.3
2357.4
2460.2
2538.1
2601.6
2661.2
2728.5
2798.7
2876.5
2992.9
3131.3
3294.7
3495.7
3709.1
3934.1
4184.0
4436.9
4683.0
4932.0
5179.1
5408.9
5584.8
5762.7
5972.3
6175.1
6429.9
5488.7
3263.0
572.0
166.3
73.1
24.0
0.0

OF REPORT)