

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: P951068

Luminaire Tested: **GALN-SB5B-830-U-5NQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P951068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26783 lumens
Efficiency: N/A
Efficacy: 146.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

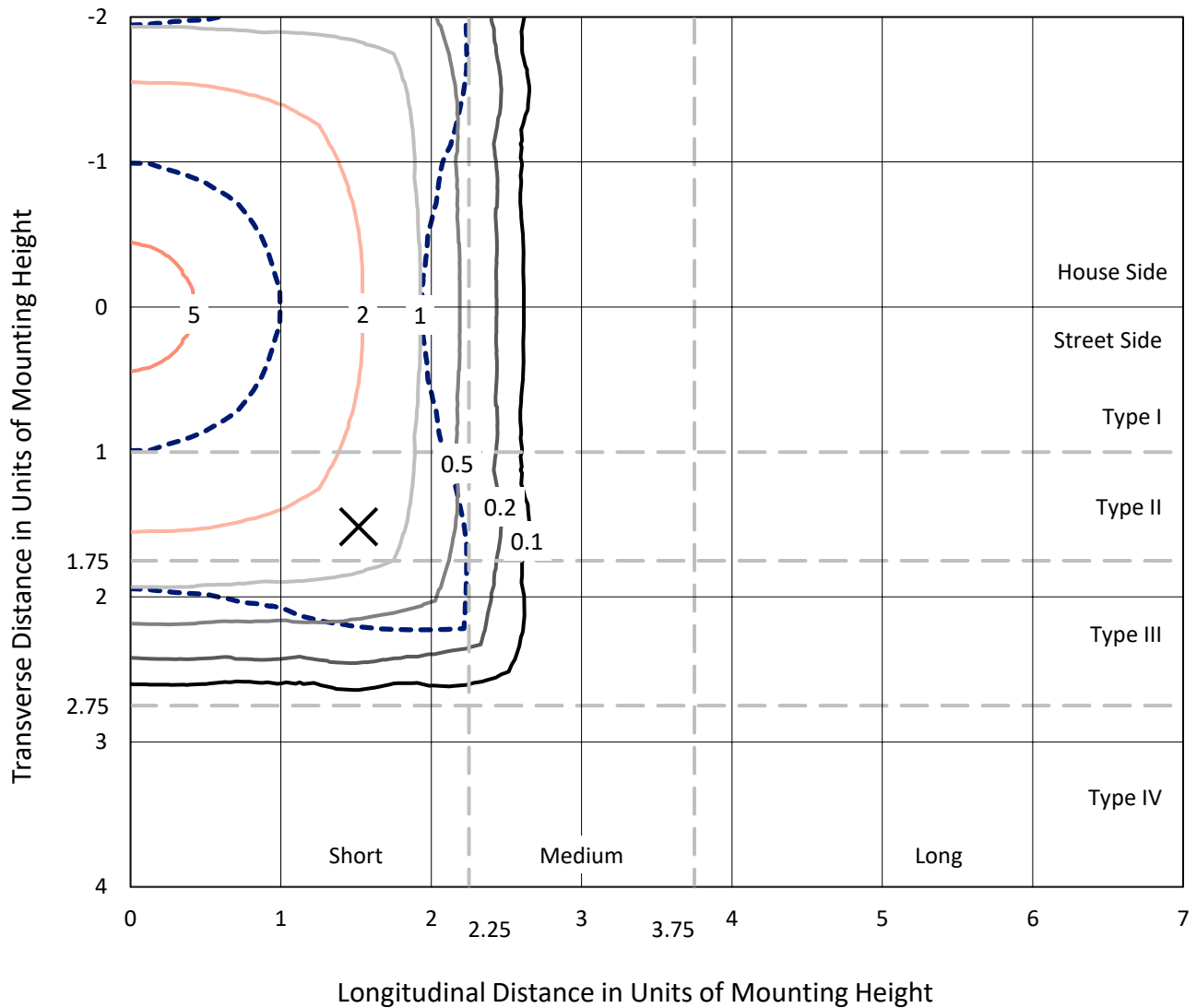
Input Watts (W): 182.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

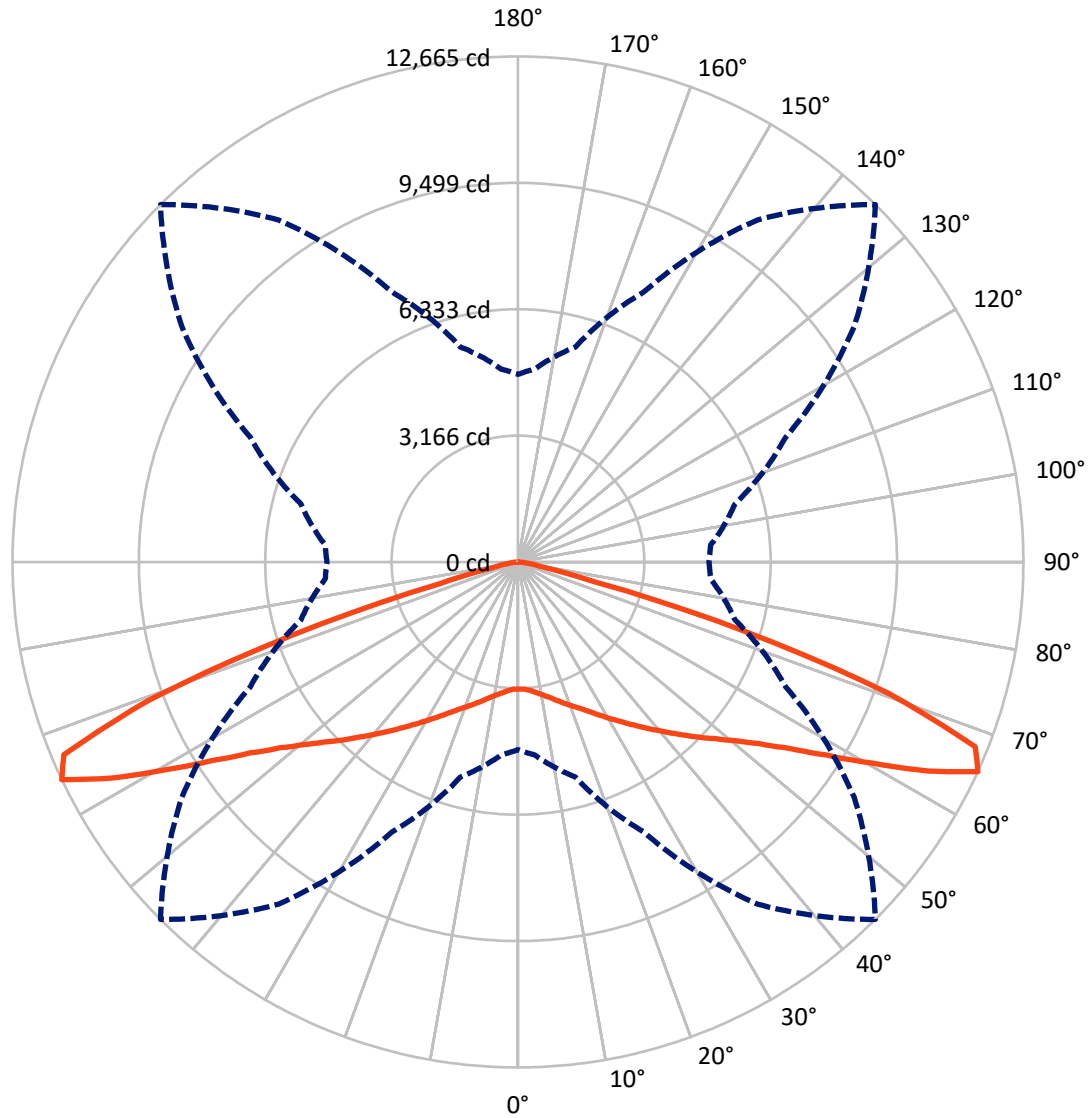
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13391.5	0.0	13391.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13391.5	0.0	13391.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	26783.0	0.0	26783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.2
10°-20°	1026.5	3.8
20°-30°	1938.1	7.2
30°-40°	3173.5	11.8
40°-50°	4920.6	18.4
50°-60°	7268.8	27.1
60°-70°	6919.2	25.8
70°-80°	1116.5	4.2
80°-90°	105.2	0.4
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°	26783.0	100.0
0°-180°	26783.0	100.0

Coefficient of Utilization



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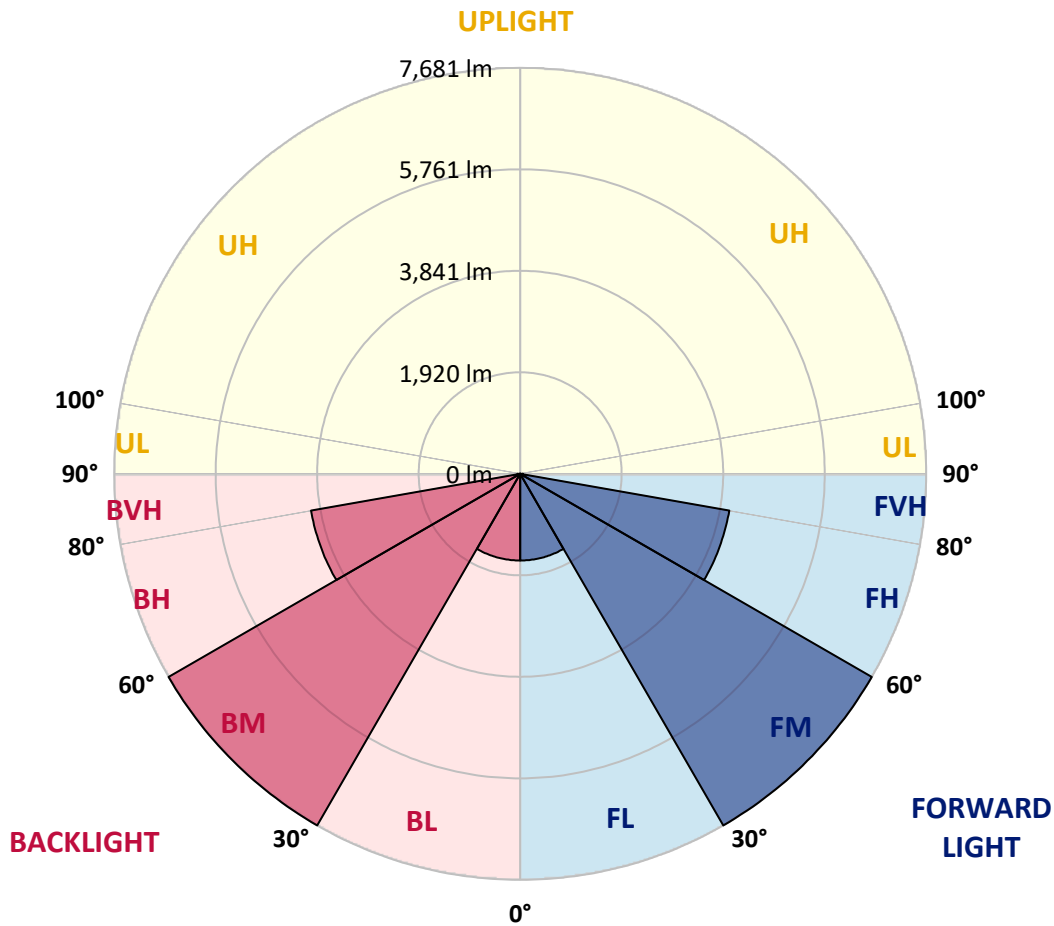
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1639.6	6.1			
FM (30°-60°)	7681.5	28.7			
FH (60°-80°)	4017.8	15.0			G2/5000
FVH (80°-90°)	52.6	0.2			G1/100
BL (0°-30°)	1639.6	6.1	B3/2500		
BM (30°-60°)	7681.5	28.7	B4/8500		
BH (60°-80°)	4017.8	15.0	B4/5000		G2/5000
BVH (80°-90°)	52.6	0.2			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°	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4	3187.4
2.5°	3208.9	3198.2	3206.3	3199.5	3194.2	3188.8	3191.5	3200.9	3204.9	3206.3
5°	3251.9	3242.5	3246.6	3246.6	3237.2	3234.5	3235.8	3242.5	3250.6	3250.6
7.5°	3321.8	3312.4	3321.8	3316.4	3308.4	3305.7	3304.4	3309.7	3321.8	3321.8
10°	3406.5	3395.7	3401.1	3398.4	3389.0	3385.0	3383.6	3391.7	3402.4	3401.1
12.5°	3499.2	3487.1	3493.8	3485.8	3483.1	3479.0	3479.0	3477.7	3484.4	3479.0
15°	3602.7	3594.6	3597.3	3591.9	3596.0	3593.3	3582.5	3577.1	3579.8	3571.8
17.5°	3725.0	3706.1	3715.6	3712.9	3712.9	3718.2	3700.8	3694.0	3699.4	3691.4
20°	3866.1	3847.2	3851.3	3845.9	3839.2	3844.6	3823.1	3828.4	3832.5	3827.1
22.5°	4020.6	3996.4	3995.1	3997.7	3983.0	3984.3	3969.5	3983.0	3991.0	3976.2
25°	4179.2	4153.6	4171.1	4164.4	4145.6	4149.6	4138.8	4152.3	4159.0	4140.2
27.5°	4347.1	4329.7	4345.8	4349.8	4327.0	4343.1	4327.0	4339.1	4345.8	4317.6
30°	4543.3	4525.8	4540.6	4551.4	4524.5	4550.0	4536.6	4544.7	4546.0	4512.4
32.5°	4757.0	4730.1	4767.7	4773.1	4743.5	4774.4	4757.0	4767.7	4774.4	4728.8
35°	5017.7	4984.1	5027.1	5020.4	4994.8	5020.4	5004.2	5020.4	5036.5	4981.4
37.5°	5298.5	5263.6	5309.3	5297.2	5273.0	5290.5	5281.1	5291.8	5317.3	5258.2
40°	5607.6	5564.6	5626.4	5604.9	5582.1	5579.4	5584.7	5591.5	5625.1	5559.2
42.5°	5938.2	5892.5	5985.2	5951.6	5919.3	5897.8	5915.3	5928.8	5961.0	5887.1
45°	6315.8	6263.4	6384.3	6344.0	6292.9	6248.6	6276.8	6297.0	6344.0	6255.3
47.5°	6732.3	6673.2	6802.2	6790.1	6706.8	6610.1	6674.6	6732.3	6767.3	6659.8
50°	7139.5	7093.8	7263.1	7277.9	7175.8	7040.1	7130.1	7217.4	7226.8	7085.7
52.5°	7521.1	7475.4	7721.4	7814.1	7722.7	7561.4	7656.9	7745.5	7674.3	7491.6
55°	7826.2	7788.5	8101.6	8340.8	8371.7	8238.7	8295.2	8292.5	8058.6	7777.8
57.5°	7900.1	7894.7	8289.8	8796.4	9118.9	9135.0	9023.5	8738.6	8234.7	7857.1
60°	7564.1	7597.7	8140.6	9034.2	9894.2	10251.7	9769.3	8956.3	8034.5	7510.4
62.5°	6559.0	6647.7	7302.1	8744.0	10520.4	11536.3	10367.3	8625.7	7212.1	6528.1
65°	4700.5	4855.1	5578.0	7462.0	10464.0	12665.1	10281.3	7401.5	5631.8	4843.0
67.5°	2132.6	2289.8	2903.9	5109.0	9096.0	12358.7	9074.5	5162.8	3049.0	2297.9
70°	772.7	799.5	997.1	2045.2	5813.2	9847.2	6061.8	2060.0	1060.2	852.0
72.5°	467.6	471.7	513.3	732.4	2019.7	5978.5	2105.7	756.5	524.1	464.9
75°	297.0	294.3	365.5	447.5	716.2	2017.0	751.2	447.5	364.2	331.9
77.5°	213.7	220.4	262.0	334.6	451.5	684.0	443.4	319.8	262.0	215.0
80°	159.9	163.9	190.8	260.7	317.1	426.0	282.2	236.5	197.5	134.4
82.5°	115.6	115.6	125.0	189.5	193.5	229.8	153.2	166.6	130.3	95.4
85°	68.5	67.2	77.9	112.9	100.8	84.7	69.9	102.1	82.0	59.1
87.5°	24.2	25.5	24.2	32.3	26.9	22.8	21.5	28.2	22.8	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3187.4
3206.3
3250.6
3317.8
3398.4
3481.7
3573.1
3698.1
3839.2
3991.0
4161.7
4339.1
4532.6
4759.7
5015.0
5294.5
5580.7
5926.1
6301.0
6696.1
7103.2
7496.9
7787.2
7832.9
7448.6
6487.8
4785.2
2264.3
841.2
473.0
334.6
219.0
138.4
95.4
57.8
18.8
0.0

OF REPORT)