

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: P943060

Luminaire Tested: **GALN-SB7B-840-U-5WQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943060
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38746 lumens
Efficiency: N/A
Efficacy: 150.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

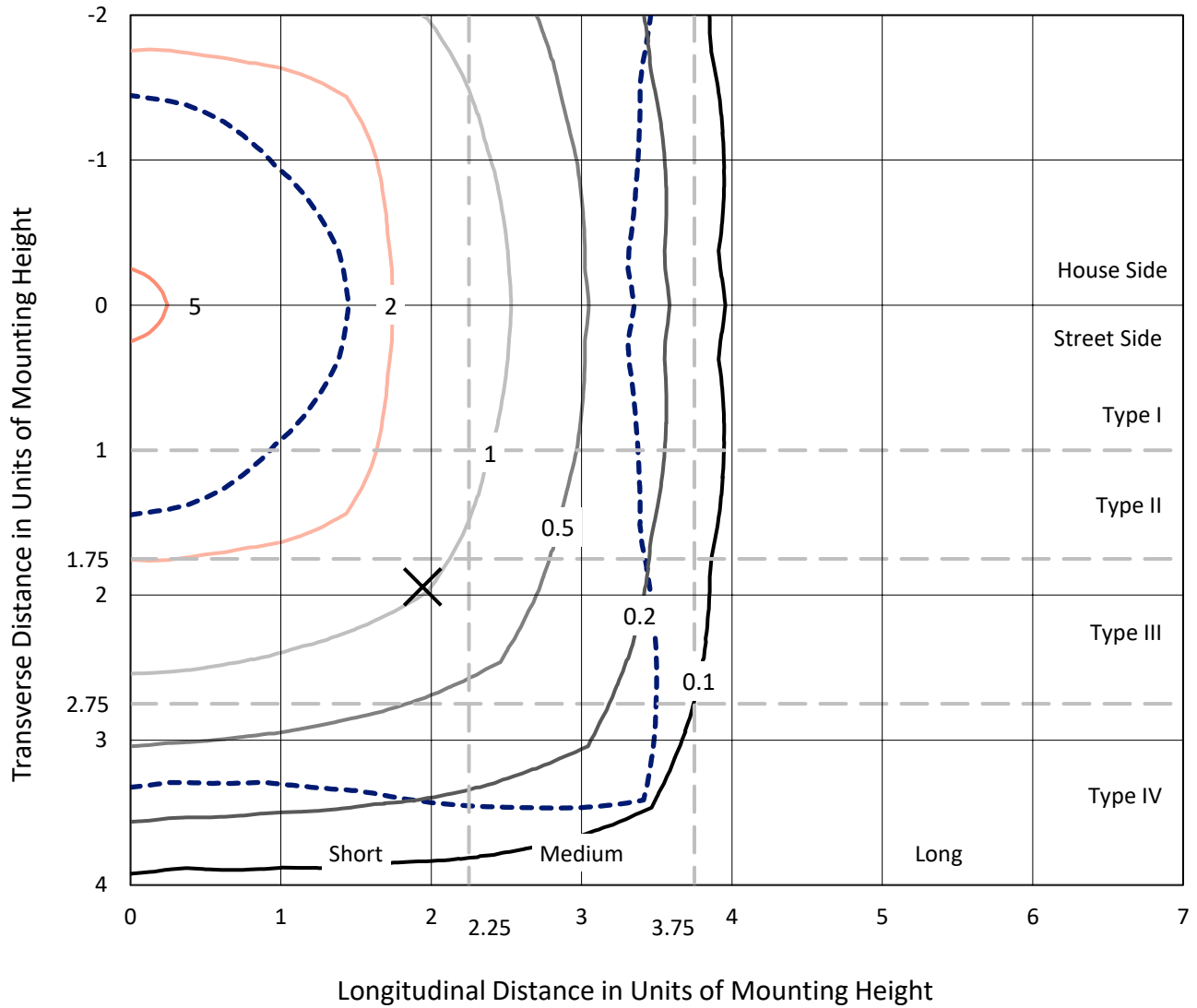
Input Watts (W): 256.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

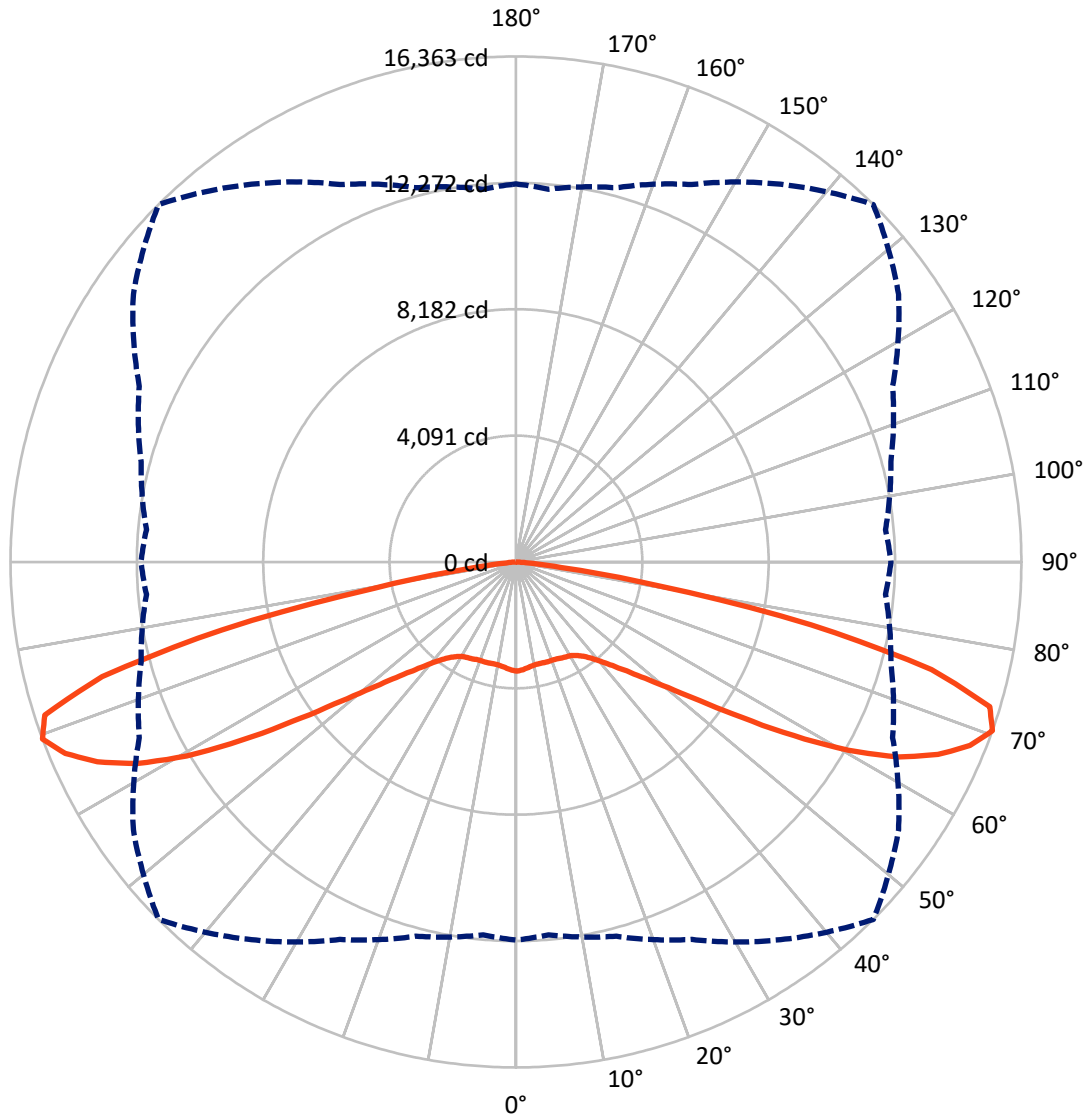
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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
House Side	Lumens	19373.0	0.0	19373.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19373.0	0.0	19373.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	38746.0	0.0	38746.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	0.8
10°-20°	965.4	2.5
20°-30°	1606.6	4.1
30°-40°	2429.6	6.3
40°-50°	4037.4	10.4
50°-60°	7618.4	19.7
60°-70°	12864.0	33.2
70°-80°	8453.0	21.8
80°-90°	442.8	1.1
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°	38746.0	100.0
0°-180°	38746.0	100.0

Coefficient of Utilization



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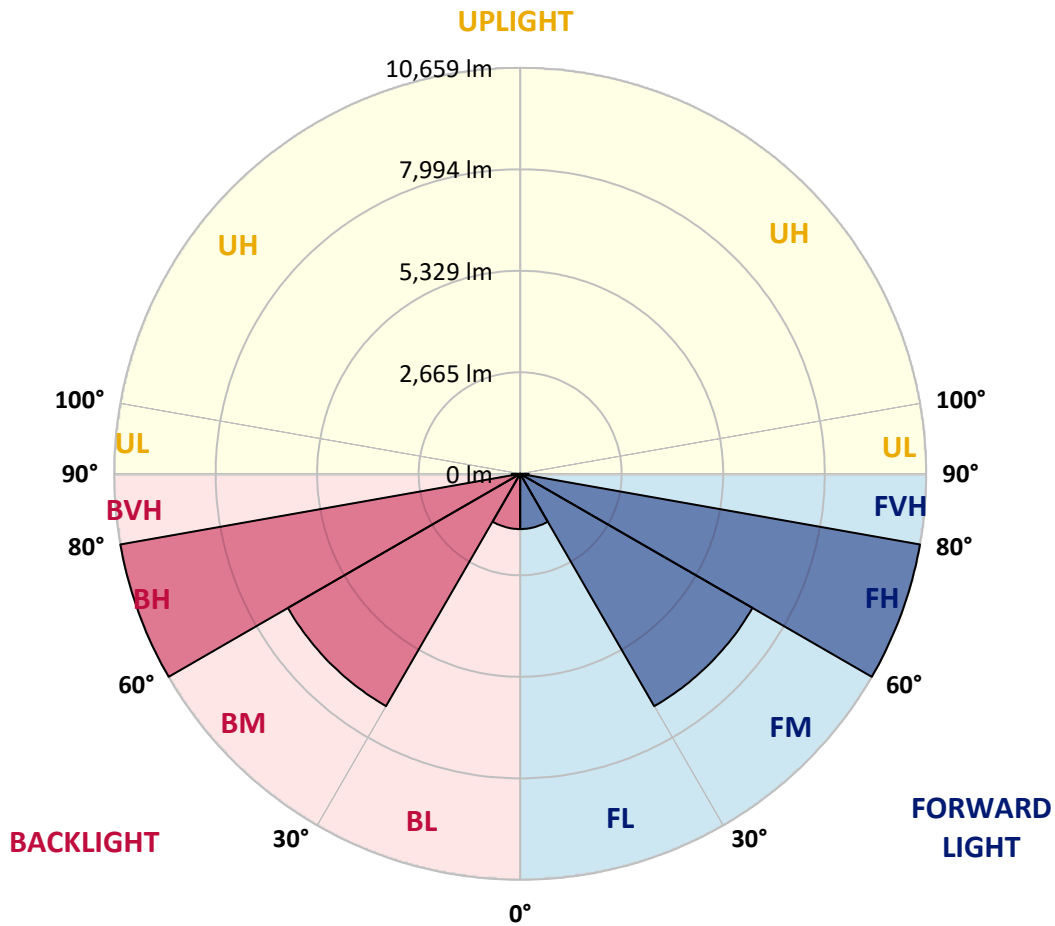
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1450.4	3.7			
FM (30°-60°)	7042.7	18.2			
FH (60°-80°)	10658.5	27.5			G4/12000
FVH (80°-90°)	221.4	0.6			G2/225
BL (0°-30°)	1450.4	3.7	B3/2500		
BM (30°-60°)	7042.7	18.2	B4/8500		
BH (60°-80°)	10658.5	27.5	B5		G4/12000
BVH (80°-90°)	221.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3534.4	3534.4	3534.4	3534.4	3534.4	3534.4	3534.4	3534.4	3534.4	3534.4
2.5°	3512.3	3522.3	3518.3	3510.2	3510.2	3504.2	3510.2	3514.3	3520.3	3524.3
5°	3465.9	3474.0	3472.0	3465.9	3468.0	3461.9	3465.9	3472.0	3476.0	3478.0
7.5°	3425.7	3433.7	3429.7	3419.6	3419.6	3413.6	3415.6	3421.6	3427.7	3429.7
10°	3415.6	3423.7	3411.6	3395.5	3389.4	3381.4	3383.4	3389.4	3401.5	3407.5
12.5°	3419.6	3425.7	3413.6	3389.4	3383.4	3375.3	3375.3	3381.4	3397.5	3405.5
15°	3431.7	3437.7	3419.6	3393.4	3387.4	3381.4	3379.3	3387.4	3405.5	3419.6
17.5°	3453.9	3459.9	3431.7	3395.5	3387.4	3389.4	3387.4	3393.4	3421.6	3447.8
20°	3474.0	3478.0	3439.8	3395.5	3387.4	3389.4	3387.4	3399.5	3435.7	3472.0
22.5°	3480.0	3484.1	3447.8	3409.6	3403.5	3405.5	3403.5	3415.6	3449.8	3486.1
25°	3482.1	3488.1	3459.9	3429.7	3439.8	3443.8	3439.8	3441.8	3468.0	3500.2
27.5°	3512.3	3520.3	3494.1	3468.0	3474.0	3472.0	3478.0	3484.1	3504.2	3536.4
30°	3574.7	3580.7	3558.6	3532.4	3528.4	3514.3	3532.4	3552.5	3574.7	3602.9
32.5°	3677.4	3689.5	3661.3	3633.1	3615.0	3606.9	3621.0	3655.3	3685.5	3715.7
35°	3848.6	3856.6	3830.5	3778.1	3745.9	3745.9	3758.0	3802.3	3850.6	3888.9
37.5°	4090.3	4100.3	4054.0	3991.6	3943.2	3943.2	3959.4	4005.7	4078.2	4132.5
40°	4384.3	4398.4	4340.0	4275.5	4229.2	4221.2	4241.3	4293.7	4362.1	4430.6
42.5°	4738.7	4754.8	4678.3	4621.9	4585.7	4585.7	4595.7	4644.1	4706.5	4791.1
45°	5191.9	5220.1	5115.3	5058.9	5024.7	5032.8	5038.8	5081.1	5137.5	5234.2
47.5°	5731.6	5759.8	5649.0	5590.6	5584.6	5622.8	5598.7	5628.9	5659.1	5769.9
50°	6343.8	6392.2	6315.6	6311.6	6323.7	6394.2	6337.8	6353.9	6319.7	6390.1
52.5°	7093.0	7163.5	7149.4	7173.6	7308.5	7453.5	7324.6	7268.2	7139.3	7161.5
55°	8001.3	8108.0	8128.1	8273.1	8579.3	8875.3	8601.4	8373.8	8100.0	8049.6
57.5°	9034.4	9119.0	9215.7	9511.7	10083.7	10609.3	10083.7	9580.2	9149.2	9046.5
60°	10146.1	10250.8	10343.5	10780.5	11630.3	12369.4	11614.2	10814.7	10244.8	10105.8
62.5°	11340.3	11475.3	11539.7	12025.1	13015.9	13898.0	13030.0	12061.3	11428.9	11279.9
65°	12486.3	12597.0	12669.5	13187.1	14133.6	15017.7	14198.1	13243.5	12593.0	12397.6
67.5°	13019.9	13080.4	13257.6	13843.6	14842.5	15851.5	15011.7	13906.1	13179.0	12836.7
70°	12238.5	12115.7	12542.6	13481.1	14927.1	16363.0	15120.5	13452.9	12562.8	12006.9
72.5°	9457.3	9245.9	9987.0	11592.1	13960.4	16036.8	14057.1	11682.7	10448.2	9320.4
75°	5145.5	4905.9	5929.0	7959.0	11132.9	13900.0	11388.7	8186.6	6601.6	5107.3
77.5°	1452.0	1361.4	2187.1	3850.6	6696.3	9759.4	6954.0	3935.2	2593.9	1538.6
80°	445.1	431.0	584.0	1160.0	2843.6	4674.3	2732.9	1174.1	743.1	469.2
82.5°	263.8	241.7	290.0	422.9	725.0	1468.1	704.9	441.0	354.4	237.6
85°	151.0	141.0	171.2	205.4	243.7	312.2	203.4	209.4	189.3	126.9
87.5°	62.4	56.4	66.5	64.4	56.4	72.5	54.4	64.4	76.5	50.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3534.4
3522.3
3478.0
3429.7
3407.5
3407.5
3421.6
3447.8
3474.0
3486.1
3498.2
3528.4
3596.8
3703.6
3874.8
4112.4
4408.5
4785.1
5230.1
5737.6
6347.9
7087.0
7971.1
8974.0
9985.0
11159.1
12301.0
12840.7
12139.9
9600.3
5439.6
1709.8
495.4
257.8
132.9
46.3
0.0

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