

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: P955057

Luminaire Tested: **GALN-SB8A-850-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955057
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-SB8A-850-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36335 lumens
Efficiency: N/A
Efficacy: 160.0 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

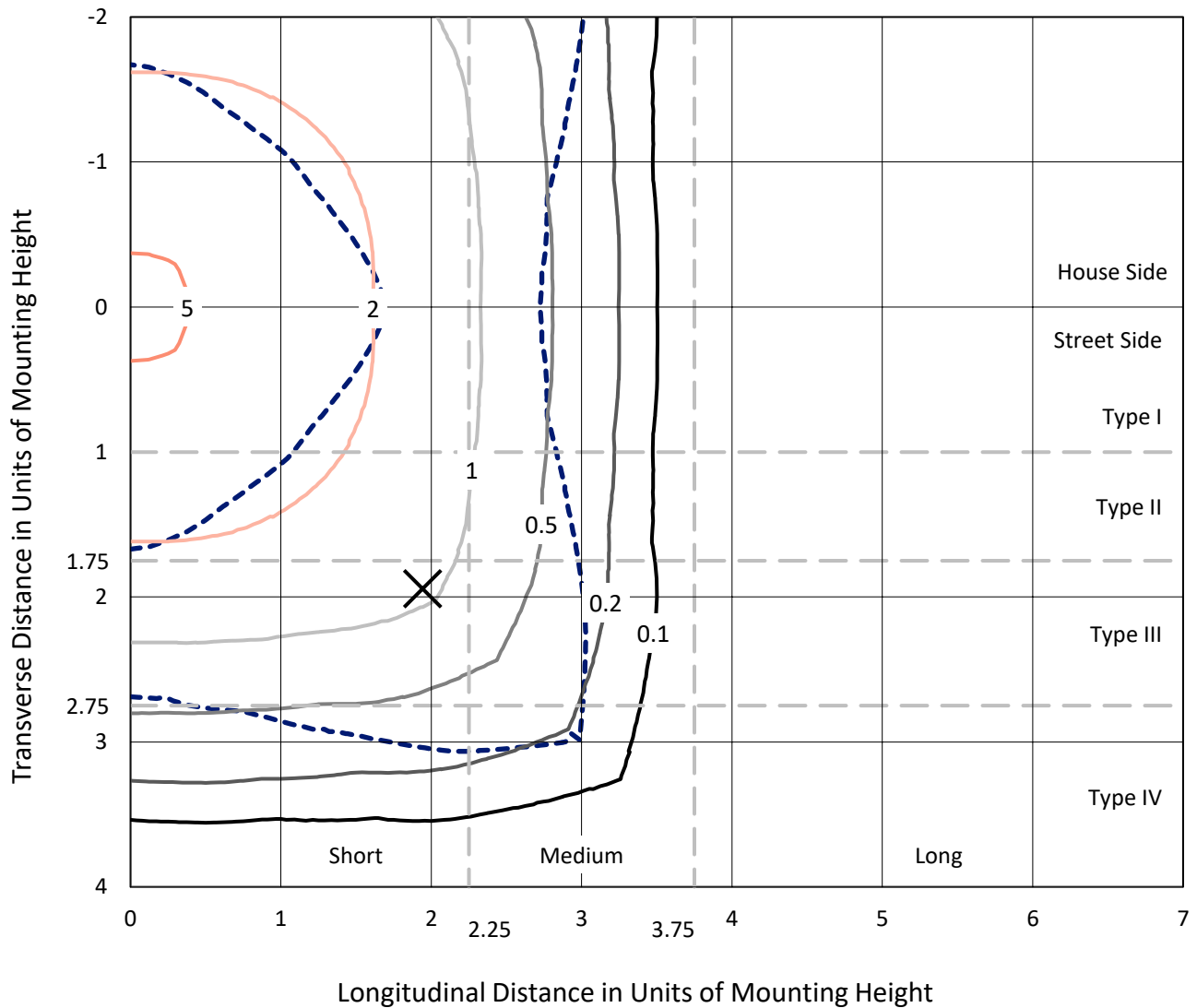
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

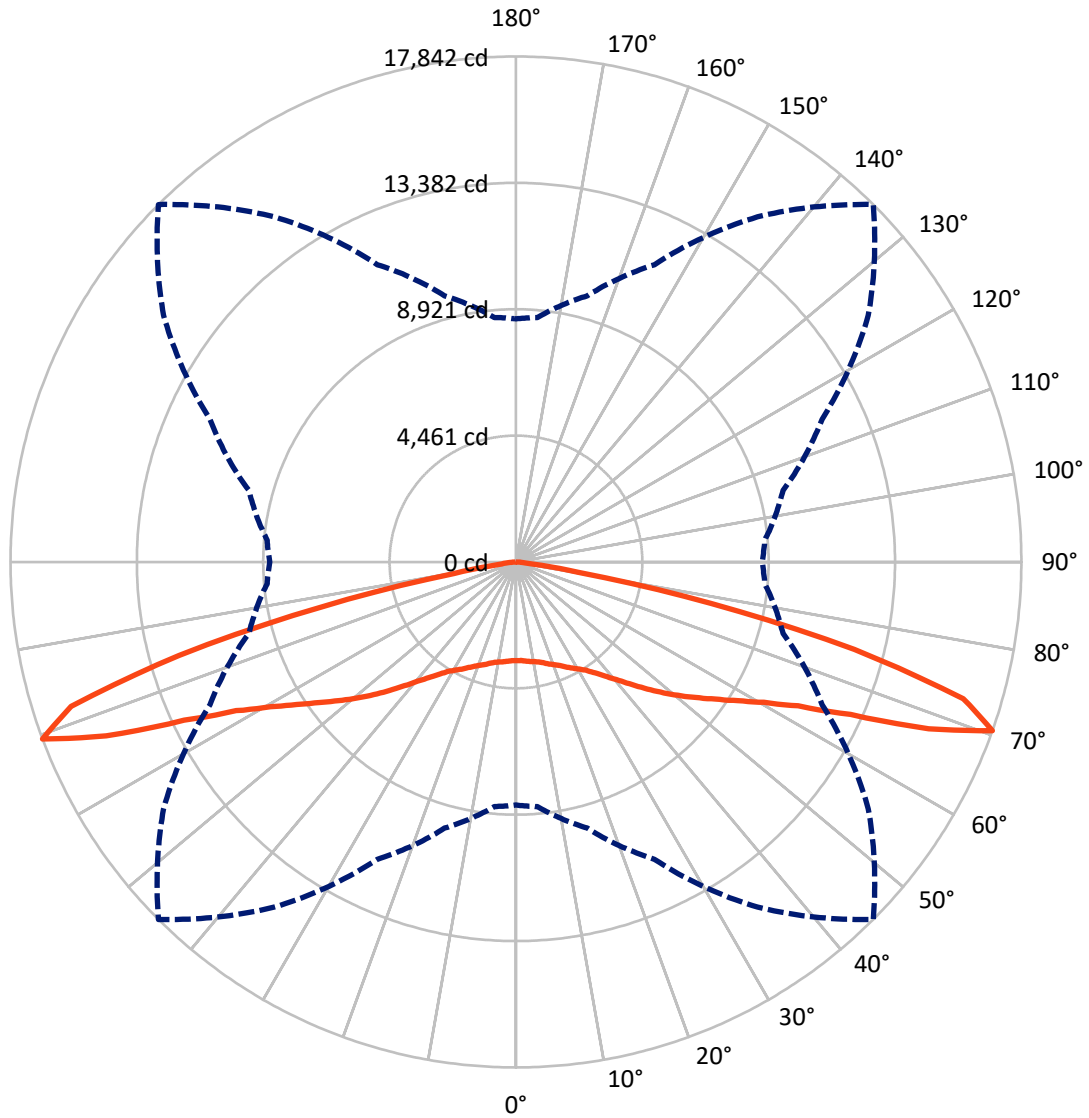
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	18167.5	0.0	18167.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18167.5	0.0	18167.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	36335.0	0.0	36335.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.1	0.9
10°-20°	1048.5	2.9
20°-30°	1873.8	5.2
30°-40°	3037.4	8.4
40°-50°	4947.5	13.6
50°-60°	7543.2	20.8
60°-70°	11221.9	30.9
70°-80°	6116.3	16.8
80°-90°	208.3	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°	36335.0	100.0
0°-180°	36335.0	100.0

Coefficient of Utilization



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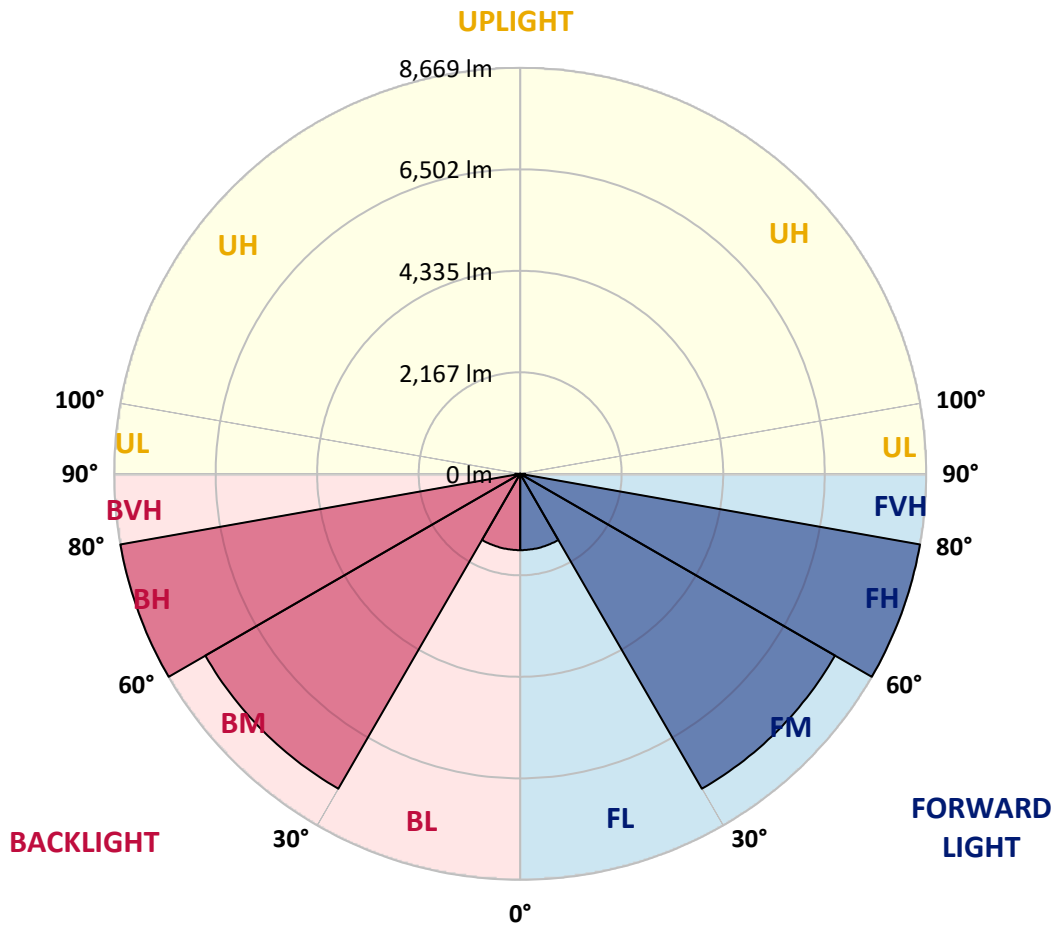
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1630.2	4.5			
FM (30°-60°)	7764.0	21.4			
FH (60°-80°)	8669.1	23.9			G4/12000
FVH (80°-90°)	104.1	0.3			G2/225
BL (0°-30°)	1630.2	4.5	B3/2500		
BM (30°-60°)	7764.0	21.4	B4/8500		
BH (60°-80°)	8669.1	23.9	B5		G4/12000
BVH (80°-90°)	104.1	0.3			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°	3480.5	3480.5	3480.5	3480.5	3480.5	3480.5	3480.5	3480.5	3480.5	3480.5
2.5°	3496.9	3500.6	3493.3	3489.6	3486.0	3480.5	3482.3	3491.5	3498.8	3496.9
5°	3526.1	3529.8	3524.3	3522.5	3515.2	3513.4	3513.4	3522.5	3527.9	3524.3
7.5°	3559.0	3564.4	3555.3	3553.5	3549.8	3546.2	3544.4	3553.5	3559.0	3559.0
10°	3590.0	3595.4	3588.1	3582.7	3579.0	3579.0	3575.4	3582.7	3591.8	3590.0
12.5°	3622.8	3626.5	3619.2	3615.5	3615.5	3621.0	3615.5	3619.2	3626.5	3622.8
15°	3662.9	3664.8	3662.9	3668.4	3677.5	3695.8	3679.4	3675.7	3679.4	3670.2
17.5°	3717.7	3721.3	3728.6	3741.4	3754.1	3787.0	3757.8	3748.7	3748.7	3730.4
20°	3785.2	3790.6	3801.6	3823.5	3839.9	3870.9	3841.7	3828.9	3823.5	3799.7
22.5°	3856.3	3865.4	3881.8	3911.0	3940.2	3969.4	3940.2	3918.3	3901.9	3870.9
25°	3938.4	3949.3	3974.9	4022.3	4062.4	4104.4	4069.7	4025.9	3993.1	3949.3
27.5°	4055.1	4067.9	4098.9	4157.3	4208.4	4244.8	4212.0	4155.5	4109.9	4057.0
30°	4219.3	4232.1	4268.6	4330.6	4365.2	4389.0	4367.1	4323.3	4268.6	4208.4
32.5°	4430.9	4447.3	4487.5	4545.8	4553.1	4556.8	4549.5	4527.6	4487.5	4414.5
35°	4699.1	4717.3	4762.9	4810.3	4803.0	4810.3	4799.4	4792.1	4762.9	4679.0
37.5°	5027.4	5049.3	5096.7	5133.2	5115.0	5105.9	5107.7	5109.5	5093.1	5000.1
40°	5408.7	5437.9	5472.5	5510.8	5479.8	5452.4	5470.7	5485.3	5470.7	5375.8
42.5°	5800.9	5842.8	5879.3	5934.0	5908.5	5873.8	5899.4	5915.8	5884.8	5782.6
45°	6236.8	6277.0	6324.4	6406.5	6388.2	6351.8	6388.2	6391.9	6339.0	6218.6
47.5°	6687.4	6729.4	6800.5	6910.0	6902.7	6862.5	6910.0	6884.4	6816.9	6672.8
50°	7114.3	7172.6	7282.1	7435.3	7449.9	7400.7	7464.5	7415.3	7302.2	7121.6
52.5°	7515.6	7577.6	7750.9	7958.9	8011.8	7947.9	8033.6	7947.9	7778.3	7546.6
55°	7937.0	8006.3	8212.4	8484.2	8590.0	8542.6	8622.9	8493.3	8252.5	7971.6
57.5°	8433.1	8475.1	8721.4	9044.2	9223.0	9234.0	9270.4	9051.5	8759.7	8440.4
60°	8971.3	9029.6	9297.8	9684.5	9967.3	10058.5	10020.2	9695.5	9356.2	8989.5
62.5°	9660.8	9724.7	10045.7	10509.0	10956.0	11182.2	11032.6	10561.9	10142.4	9702.8
65°	10231.8	10302.9	10883.0	11709.3	12522.9	12977.1	12601.4	11734.9	10979.7	10359.5
67.5°	9817.7	9905.2	10815.5	12333.2	14356.2	15711.6	14425.5	12519.3	11039.9	10198.9
70°	8580.9	8663.0	9724.7	11579.8	14872.5	17842.2	15182.6	11921.0	9759.3	8818.0
72.5°	5696.9	5961.4	7035.8	9261.3	13280.0	16510.6	13411.3	9073.4	6526.9	5684.1
75°	1889.8	2101.4	2834.8	4801.2	8894.7	12347.8	8467.8	4248.5	2245.6	1616.2
77.5°	476.1	549.1	757.0	1373.6	3548.0	7030.4	3194.1	1121.9	611.1	426.9
80°	231.7	255.4	364.8	457.9	888.4	2234.6	833.6	430.5	288.2	222.5
82.5°	127.7	129.5	206.1	259.0	330.2	578.3	342.9	251.7	166.0	135.0
85°	78.4	76.6	109.5	138.6	138.6	206.1	164.2	138.6	94.9	83.9
87.5°	31.0	31.0	40.1	43.8	38.3	52.9	42.0	45.6	36.5	34.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3480.5
3498.8
3526.1
3559.0
3590.0
3621.0
3670.2
3730.4
3799.7
3869.1
3947.5
4055.1
4208.4
4416.3
4679.0
5000.1
5375.8
5789.9
6231.4
6663.7
7117.9
7524.7
7933.3
8396.7
8931.1
9626.1
10257.3
10073.1
8692.2
5499.9
1528.7
381.3
204.3
135.0
87.6
36.5
0.0

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