

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: P955040

Luminaire Tested: **GALN-SB8A-840-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955040
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-SB8A-840-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35728 lumens
Efficiency: N/A
Efficacy: 157.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

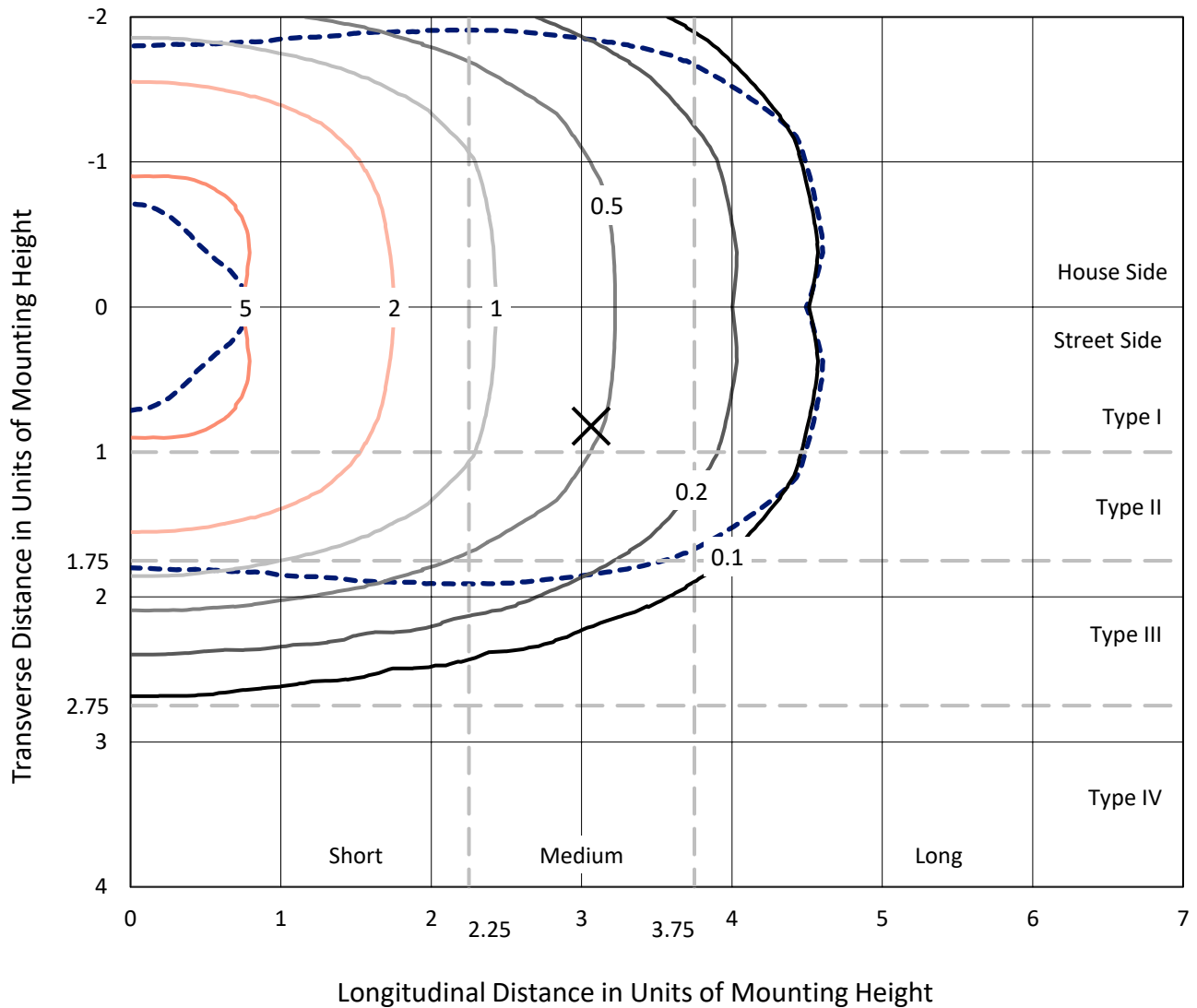
Input Watts (W): 227.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

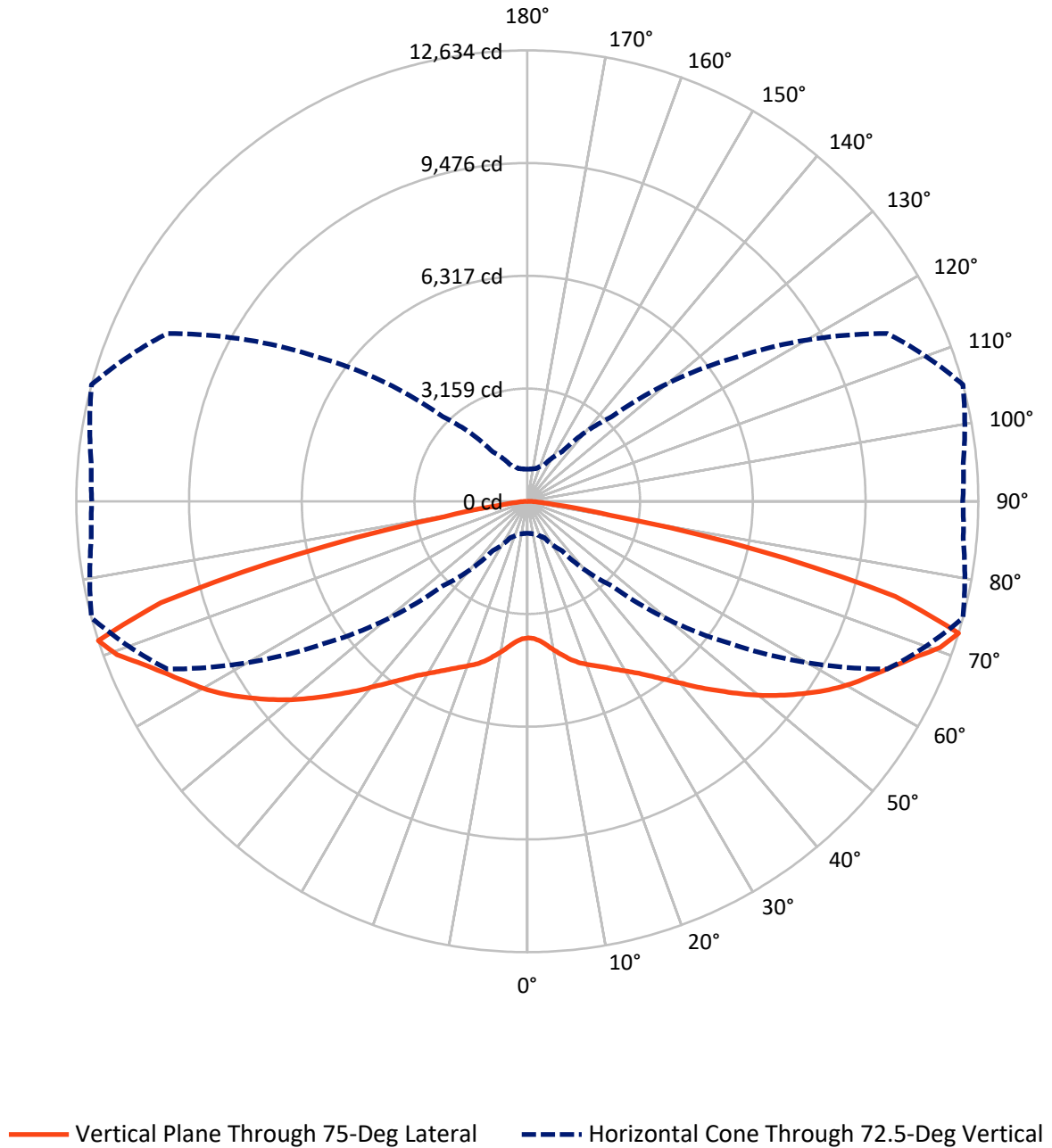
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17864.0	0.0	17864.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17864.0	0.0	17864.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	35728.0	0.0	35728.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.9	1.0
10°-20°	1236.5	3.5
20°-30°	2389.3	6.7
30°-40°	4034.4	11.3
40°-50°	6398.1	17.9
50°-60°	8566.3	24.0
60°-70°	8152.4	22.8
70°-80°	4254.1	11.9
80°-90°	322.0	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°	35728.0	100.0
0°-180°	35728.0	100.0

Coefficient of Utilization



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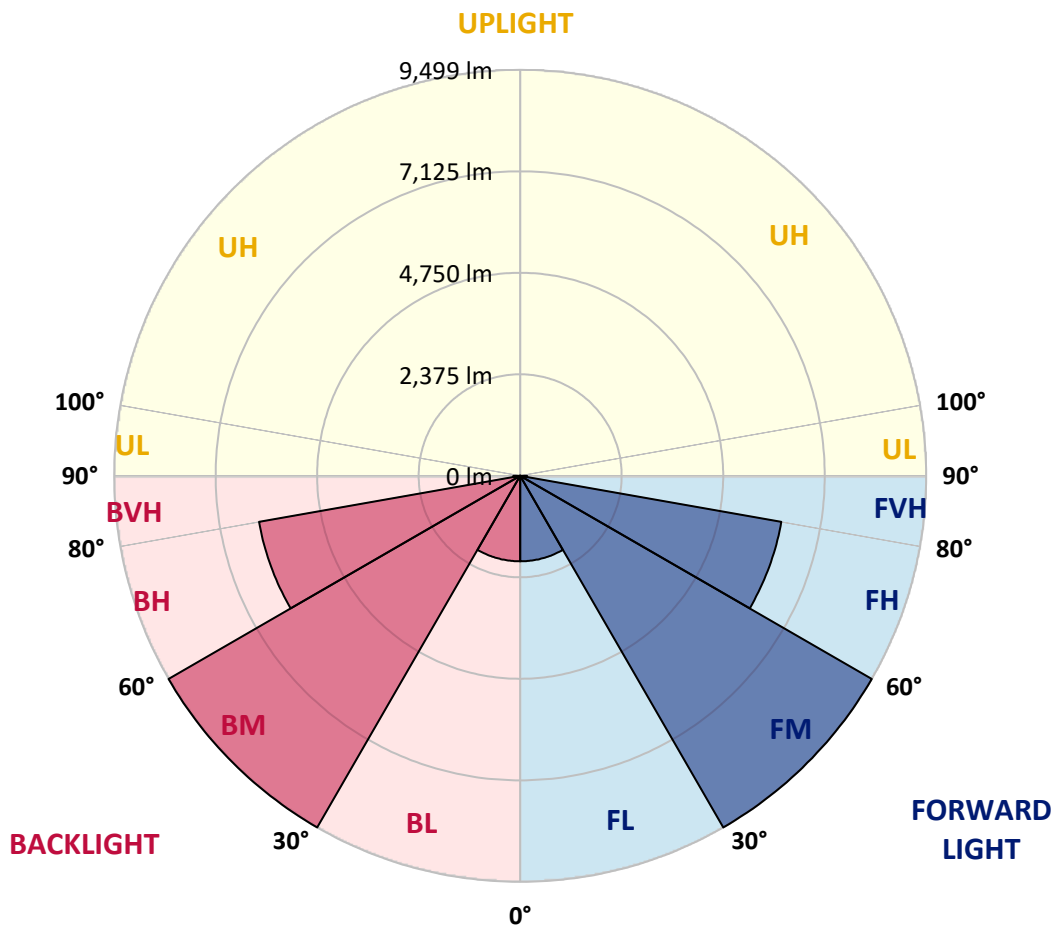
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.3	5.6			
FM (30°-60°)	9499.4	26.6			
FH (60°-80°)	6203.2	17.4			G3/7500
FVH (80°-90°)	161.0	0.5			G2/225
BL (0°-30°)	2000.3	5.6	B3/2500		
BM (30°-60°)	9499.4	26.6	B5		
BH (60°-80°)	6203.2	17.4	B5		G5
BVH (80°-90°)	161.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3827.1	3827.1	3827.1	3827.1	3827.1	3827.1	3827.1	3827.1	3827.1	3827.1
2.5°	3827.1	3823.5	3827.1	3830.8	3828.9	3828.9	3838.1	3843.5	3854.5	3852.6
5°	3801.6	3799.7	3814.3	3830.8	3843.5	3865.4	3892.8	3912.8	3938.4	3943.9
7.5°	3788.8	3783.3	3808.9	3838.1	3878.2	3932.9	3985.8	4040.5	4084.3	4098.9
10°	3797.9	3799.7	3834.4	3889.1	3953.0	4029.6	4104.4	4197.4	4259.4	4274.0
12.5°	3839.9	3836.2	3894.6	3982.2	4069.7	4166.4	4254.0	4356.1	4423.6	4458.3
15°	3916.5	3909.2	3991.3	4120.8	4248.5	4361.6	4432.7	4529.4	4607.9	4651.6
17.5°	4007.7	4011.3	4119.0	4286.8	4454.6	4582.3	4649.8	4699.1	4759.3	4797.6
20°	4168.2	4175.5	4295.9	4494.8	4686.3	4832.2	4887.0	4868.7	4885.1	4914.3
22.5°	4383.5	4387.1	4522.1	4737.4	4938.0	5098.6	5135.0	5060.2	5014.6	5034.7
25°	4633.4	4657.1	4792.1	5012.8	5218.9	5372.2	5388.6	5275.5	5162.4	5167.9
27.5°	4938.0	4959.9	5096.7	5315.6	5525.4	5658.6	5656.8	5505.3	5339.3	5297.4
30°	5268.2	5291.9	5432.4	5658.6	5853.8	5970.5	5945.0	5764.4	5527.2	5448.8
32.5°	5660.4	5675.0	5817.3	6043.5	6224.1	6317.1	6264.2	6041.7	5746.1	5656.8
35°	6134.7	6156.6	6262.4	6475.8	6634.5	6711.1	6621.7	6359.1	6027.1	5926.7
37.5°	6676.5	6661.9	6782.3	6972.0	7103.3	7150.7	7028.5	6716.6	6348.1	6229.5
40°	7242.0	7234.7	7366.0	7548.4	7619.6	7648.7	7468.2	7127.0	6718.4	6590.7
42.5°	7754.5	7749.1	7926.0	8128.5	8214.2	8181.4	7953.4	7563.0	7147.1	7001.2
45°	8165.0	8157.7	8374.8	8659.3	8827.2	8772.4	8466.0	8044.6	7581.2	7429.8
47.5°	8480.6	8484.2	8717.7	9069.8	9363.5	9383.5	8989.5	8535.3	8059.2	7887.7
50°	8708.6	8719.5	8969.4	9359.8	9761.1	9938.1	9524.0	9038.8	8553.5	8360.2
52.5°	8765.1	8785.2	9086.2	9544.1	10016.5	10354.0	10067.6	9522.2	9022.3	8838.1
55°	8464.1	8504.3	8885.5	9529.5	10173.4	10627.6	10545.5	10012.9	9494.8	9305.1
57.5°	7772.8	7829.3	8274.4	9115.4	10138.7	10815.5	10915.8	10483.5	9967.3	9784.8
60°	6804.2	6871.6	7298.5	8216.1	9649.9	10884.8	11176.7	10941.4	10401.4	10224.5
62.5°	5343.0	5430.6	5941.3	7017.6	8617.4	10561.9	11399.2	11355.5	10791.8	10571.1
65°	3427.6	3520.6	4058.8	5330.2	7240.1	9573.2	11468.6	11758.6	11204.1	10895.8
67.5°	2066.8	2108.7	2375.1	3230.6	5291.9	8082.9	10881.2	12205.5	11685.6	11302.6
70°	1322.5	1346.2	1504.9	1897.1	2991.6	5897.5	9425.5	12289.4	12269.4	11720.3
72.5°	897.5	904.8	946.7	1123.7	1692.8	3351.0	6951.9	11125.6	12634.2	12258.4
75°	656.7	696.8	764.3	795.3	961.3	1674.6	3984.0	7816.6	10647.7	10811.9
77.5°	488.9	490.7	583.7	620.2	685.9	892.0	1685.5	4363.4	6610.8	6941.0
80°	414.1	392.2	390.4	499.8	516.2	556.4	753.4	1506.8	2367.8	1435.6
82.5°	344.8	321.1	290.0	390.4	352.1	341.1	326.5	612.9	753.4	370.3
85°	240.8	229.8	218.9	255.4	200.7	171.5	156.9	286.4	317.4	156.9
87.5°	104.0	107.6	109.5	113.1	83.9	60.2	60.2	80.3	80.3	62.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

<u>90°</u>
3827.1
3850.8
3943.9
4102.6
4288.6
4472.9
4668.1
4815.8
4936.2
5049.3
5177.0
5310.2
5457.9
5678.6
5941.3
6251.4
6632.7
7037.6
7464.5
7938.8
8418.5
8885.5
9358.0
9826.8
10262.8
10596.6
10934.1
11331.7
11716.6
<i>12200.0</i>
10414.2
6191.2
1085.4
315.6
138.6
45.6
0.0

OF REPORT)