

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: P956489

Luminaire Tested: **GALN-SB9A-850-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956489
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-SB9A-850-U-RW
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40244 lumens
Efficiency: N/A
Efficacy: 157.5 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

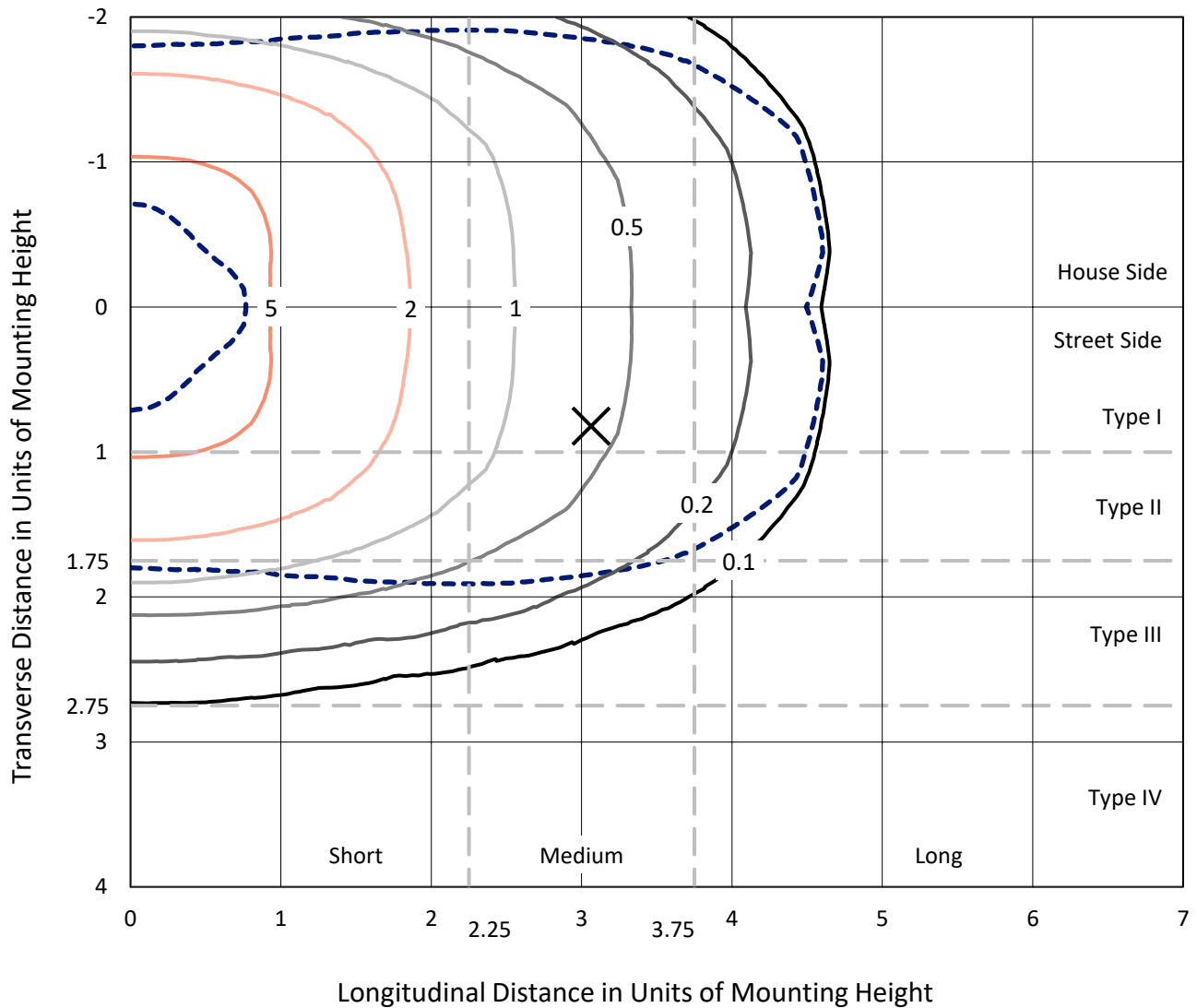
Input Watts (W): 255.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

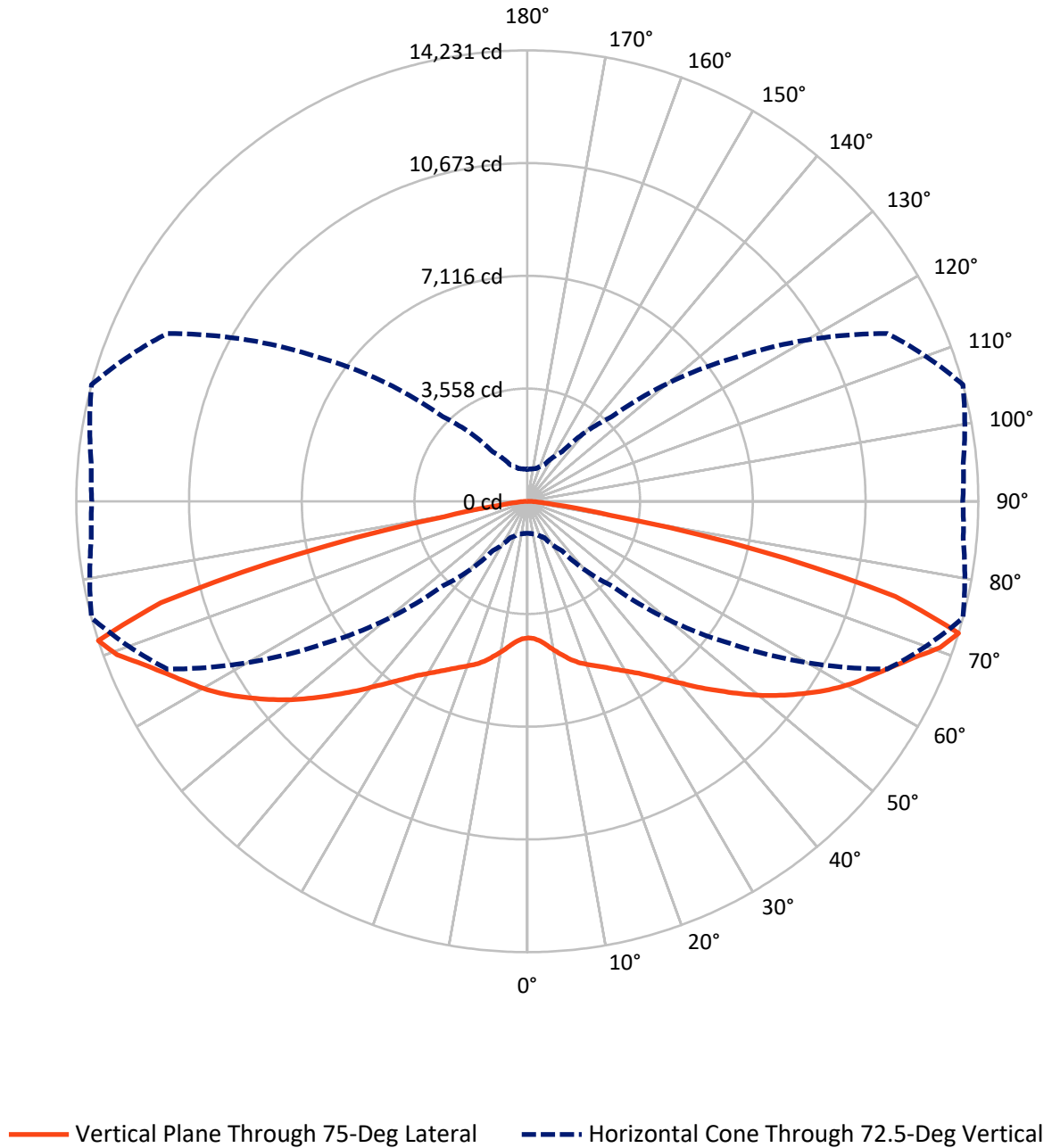
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Medium - N/A

REPORT NUMBER: P956489
CATALOG NUMBER: GALN-SB9A-850-U-RW

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20122.0	0.0	20122.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20122.0	0.0	20122.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40244.0	0.0	40244.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	422.3	1.0
10°-20°	1392.8	3.5
20°-30°	2691.3	6.7
30°-40°	4544.4	11.3
40°-50°	7206.8	17.9
50°-60°	9649.1	24.0
60°-70°	9182.9	22.8
70°-80°	4791.8	11.9
80°-90°	362.7	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°	40244.0	100.0
0°-180°	40244.0	100.0

Coefficient of Utilization



REPORT NUMBER: P956489

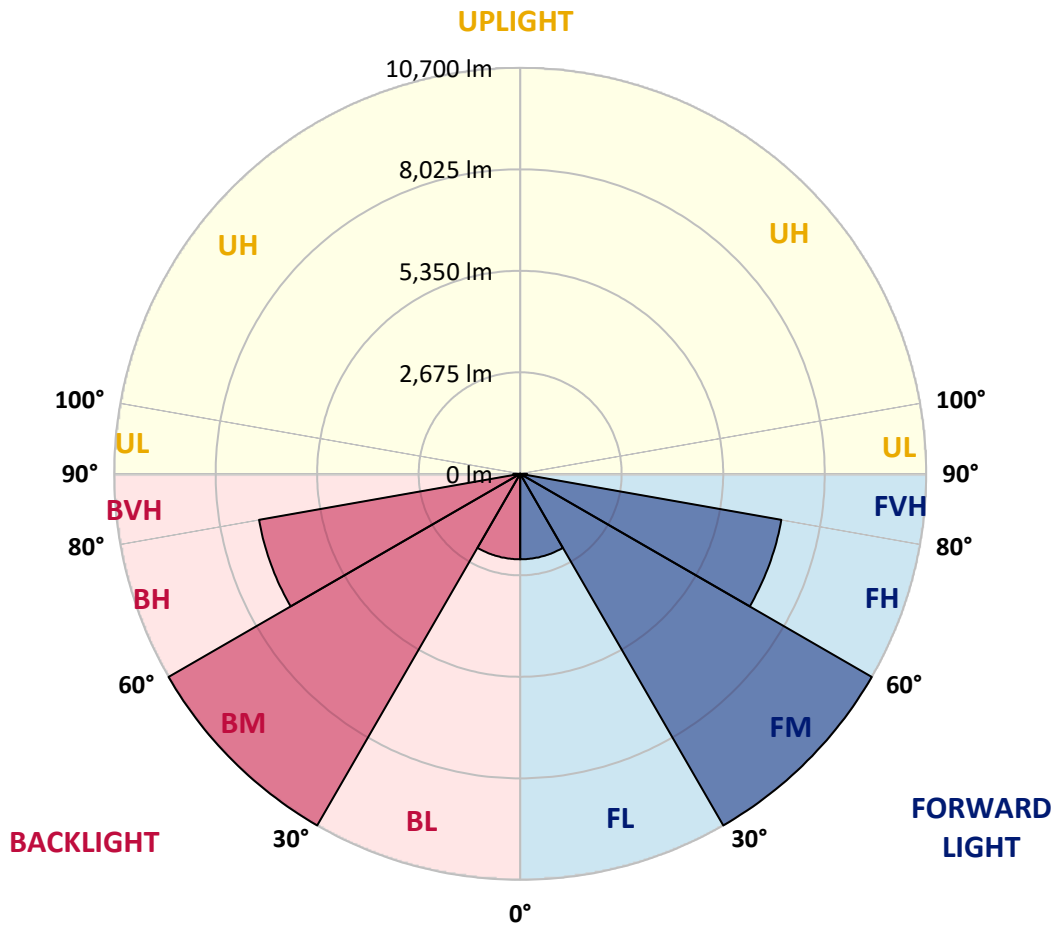
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2253.2	5.6			
FM (30°-60°)	10700.2	26.6			
FH (60°-80°)	6987.3	17.4			G3/7500
FVH (80°-90°)	181.4	0.5			G2/225
BL (0°-30°)	2253.2	5.6	B3/2500		
BM (30°-60°)	10700.2	26.6	B5		
BH (60°-80°)	6987.3	17.4	B5		G5
BVH (80°-90°)	181.4	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°	4310.9	4310.9	4310.9	4310.9	4310.9	4310.9	4310.9	4310.9	4310.9	4310.9
2.5°	4310.9	4306.7	4310.9	4315.0	4312.9	4312.9	4323.2	4329.3	4341.7	4339.6
5°	4282.1	4280.0	4296.5	4315.0	4329.3	4354.0	4384.8	4407.4	4436.2	4442.4
7.5°	4267.7	4261.5	4290.3	4323.2	4368.4	4430.0	4489.6	4551.3	4600.6	4617.0
10°	4278.0	4280.0	4319.1	4380.7	4452.6	4538.9	4623.2	4728.0	4797.8	4814.3
12.5°	4325.2	4321.1	4386.9	4485.5	4584.1	4693.0	4791.7	4906.7	4982.8	5021.8
15°	4411.5	4403.3	4495.8	4641.7	4785.5	4912.9	4993.0	5101.9	5190.3	5239.6
17.5°	4514.3	4518.4	4639.6	4828.6	5017.7	5161.5	5237.5	5293.0	5360.8	5404.0
20°	4695.1	4703.3	4838.9	5062.9	5278.6	5443.0	5504.7	5484.1	5502.6	5535.5
22.5°	4937.5	4941.7	5093.7	5336.2	5562.2	5743.0	5784.1	5699.9	5648.5	5671.1
25°	5219.0	5245.8	5397.8	5646.4	5878.6	6051.2	6069.7	5942.3	5814.9	5821.1
27.5°	5562.2	5586.8	5741.0	5987.5	6223.8	6373.8	6371.8	6201.2	6014.2	5967.0
30°	5934.1	5960.8	6119.0	6373.8	6593.7	6725.2	6696.4	6493.0	6225.9	6137.5
32.5°	6375.9	6392.3	6552.6	6807.4	7010.8	7115.6	7056.0	6805.3	6472.4	6371.8
35°	6910.1	6934.8	7053.9	7294.3	7473.1	7559.4	7458.7	7162.8	6788.9	6675.9
37.5°	7520.4	7503.9	7639.5	7853.2	8001.2	8054.6	7916.9	7565.6	7150.5	7017.0
40°	8157.3	8149.1	8297.1	8502.5	8582.7	8615.5	8412.1	8027.9	7567.6	7423.8
42.5°	8734.7	8728.6	8927.9	9155.9	9252.5	9215.5	8958.7	8519.0	8050.5	7886.1
45°	9197.0	9188.8	9433.3	9753.9	9942.9	9881.3	9536.1	9061.4	8539.5	8369.0
47.5°	9552.5	9556.6	9819.6	10216.2	10547.0	10569.6	10125.8	9614.1	9077.9	8884.7
50°	9809.3	9821.7	10103.2	10542.9	10994.9	11194.2	10727.8	10181.3	9634.7	9416.9
52.5°	9873.0	9895.6	10234.7	10750.4	11282.6	11662.7	11340.1	10725.8	10162.8	9955.2
55°	9534.0	9579.2	10008.7	10734.0	11459.3	11970.9	11878.5	11278.5	10694.9	10481.2
57.5°	8755.3	8819.0	9320.3	10267.6	11420.3	12182.6	12295.6	11808.6	11227.1	11021.6
60°	7664.2	7740.2	8221.0	9254.6	10869.6	12260.7	12589.4	12324.4	11716.2	11516.8
62.5°	6018.3	6117.0	6692.3	7904.6	9706.6	11897.0	12840.1	12790.8	12155.9	11907.2
65°	3860.9	3965.7	4571.8	6004.0	8155.3	10783.3	12918.2	13244.9	12620.2	12273.0
67.5°	2328.0	2375.3	2675.3	3639.0	5960.8	9104.6	12256.5	13748.3	13162.7	12731.2
70°	1489.7	1516.4	1695.2	2136.9	3369.8	6643.0	10616.9	13842.8	13820.2	13201.7
72.5°	1010.9	1019.2	1066.4	1265.7	1906.8	3774.6	7830.6	12531.9	14231.2	13807.9
75°	739.7	784.9	860.9	895.9	1082.9	1886.3	4487.6	8804.6	11993.5	12178.5
77.5°	550.7	552.7	657.5	698.6	772.6	1004.8	1898.6	4914.9	7446.4	7818.3
80°	466.4	441.8	439.7	563.0	581.5	626.7	848.6	1697.2	2667.1	1617.1
82.5°	388.3	361.6	326.7	439.7	396.6	384.2	367.8	690.4	848.6	417.1
85°	271.2	258.9	246.6	287.7	226.0	193.1	176.7	322.6	357.5	176.7
87.5°	117.1	121.2	123.3	127.4	94.5	67.8	67.8	90.4	90.4	69.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4310.9
4337.6
4442.4
4621.1
4830.7
5038.2
5258.1
5424.5
5560.1
5687.5
5831.4
5981.4
6147.8
6396.4
6692.3
7041.6
7471.0
7927.2
8408.0
8942.2
9482.6
10008.7
10540.8
11068.9
11560.0
11936.0
12316.1
12764.1
13197.6
13742.1
11730.5
6973.8
1222.6
355.5
156.2
51.4
0.0

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