

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: P955960

Luminaire Tested: **GALN-SB8D-735-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955960
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-SB8D-735-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 86174 lumens
Efficiency: N/A
Efficacy: 147.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

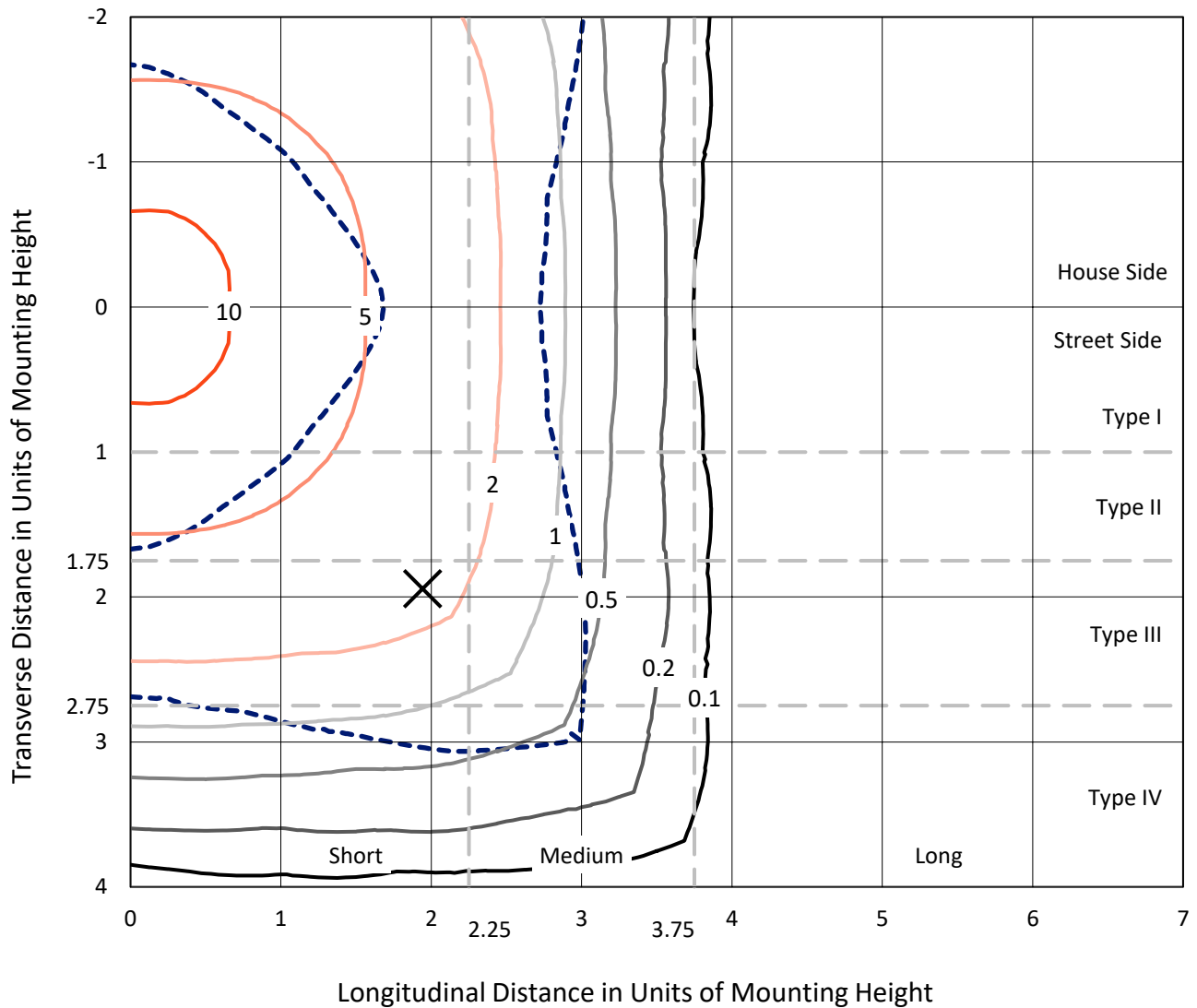
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P955960
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Iso-Footcandle Lines of Horizontal Illumination

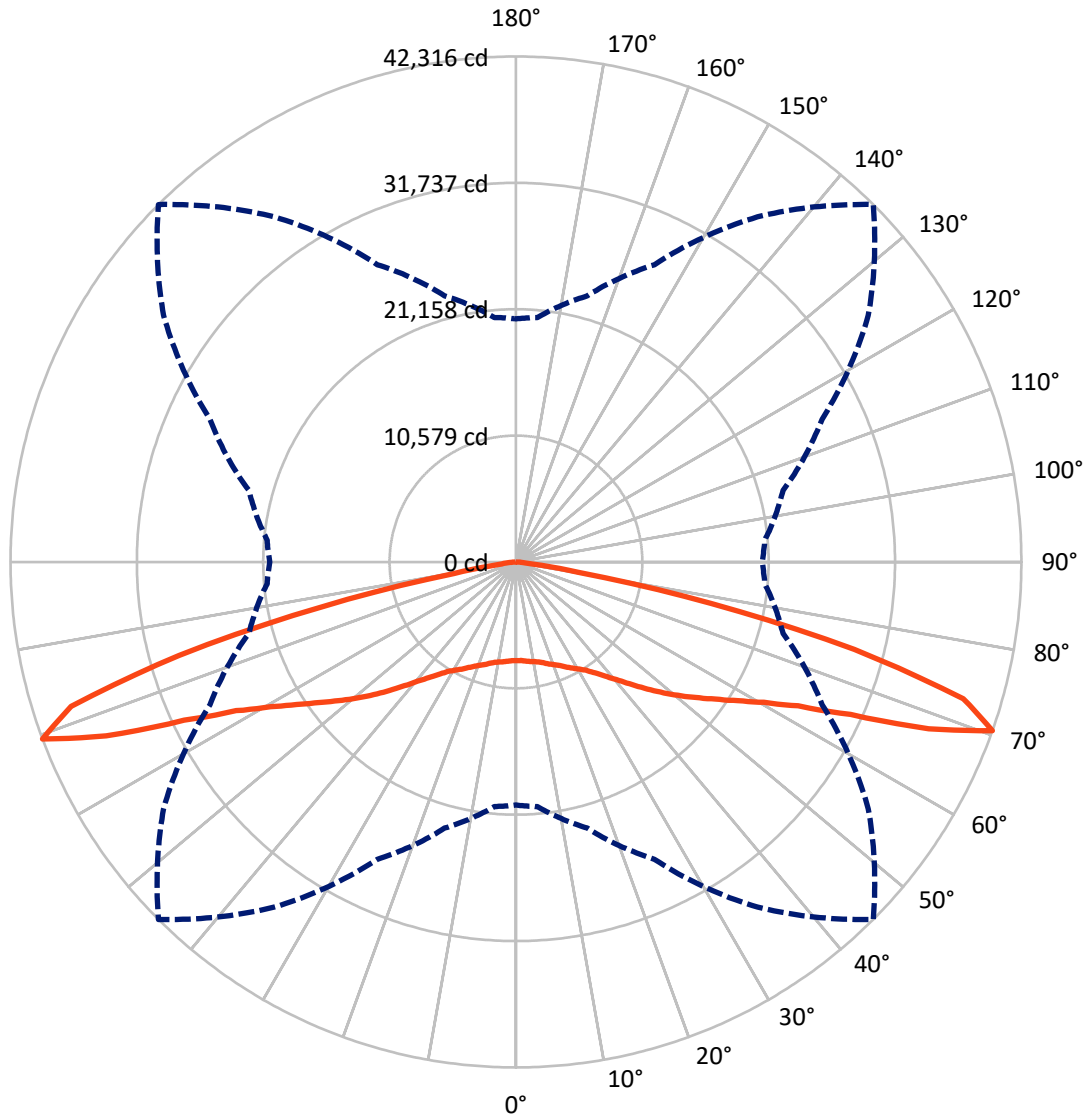
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type V - Short - N/A

REPORT NUMBER: P955960
CATALOG NUMBER: GALN-SB8D-735-U-5MQ

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	43087.0	0.0	43087.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	43087.0	0.0	43087.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	86174.0	0.0	86174.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.9	0.9
10°-20°	2486.7	2.9
20°-30°	4444.0	5.2
30°-40°	7203.7	8.4
40°-50°	11733.7	13.6
50°-60°	17889.9	20.8
60°-70°	26614.4	30.9
70°-80°	14505.7	16.8
80°-90°	494.0	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°	86174.0	100.0
0°-180°	86174.0	100.0



REPORT NUMBER: P955960

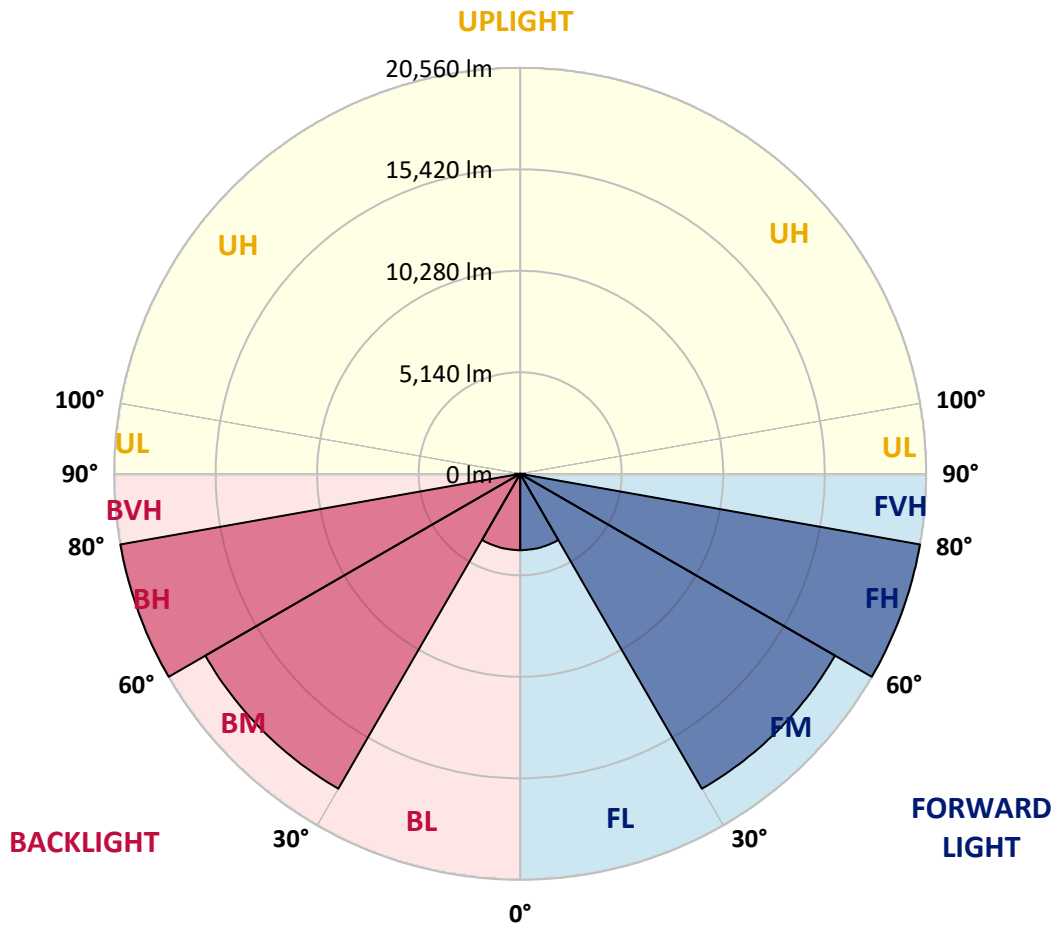
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3866.3	4.5			
FM (30°-60°)	18413.6	21.4			
FH (60°-80°)	20560.1	23.9			G5
FVH (80°-90°)	247.0	0.3			G3/500
BL (0°-30°)	3866.3	4.5	B4/5000		
BM (30°-60°)	18413.6	21.4	B5		
BH (60°-80°)	20560.1	23.9	B5		G5
BVH (80°-90°)	247.0	0.3			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8254.6	8254.6	8254.6	8254.6	8254.6	8254.6	8254.6	8254.6	8254.6	8254.6
2.5°	8293.5	8302.2	8284.9	8276.2	8267.6	8254.6	8258.9	8280.5	8297.8	8293.5
5°	8362.7	8371.4	8358.4	8354.1	8336.8	8332.5	8332.5	8354.1	8367.1	8358.4
7.5°	8440.6	8453.6	8432.0	8427.6	8419.0	8410.3	8406.0	8427.6	8440.6	8440.6
10°	8514.2	8527.1	8509.8	8496.9	8488.2	8488.2	8479.5	8496.9	8518.5	8514.2
12.5°	8592.0	8600.7	8583.4	8574.7	8574.7	8587.7	8574.7	8583.4	8600.7	8592.0
15°	8687.2	8691.5	8687.2	8700.2	8721.8	8765.1	8726.1	8717.5	8726.1	8704.5
17.5°	8817.0	8825.6	8843.0	8873.2	8903.5	8981.4	8912.2	8890.5	8890.5	8847.3
20°	8977.1	8990.0	9016.0	9067.9	9106.9	9180.4	9111.2	9080.9	9067.9	9011.7
22.5°	9145.8	9167.4	9206.4	9275.6	9344.8	9414.0	9344.8	9292.9	9254.0	9180.4
25°	9340.5	9366.4	9427.0	9539.5	9634.7	9734.2	9652.0	9548.1	9470.3	9366.4
27.5°	9617.4	9647.6	9721.2	9859.6	9980.8	10067.3	9989.4	9855.3	9747.2	9621.7
30°	10006.7	10037.0	10123.5	10270.6	10352.8	10409.1	10357.2	10253.3	10123.5	9980.8
32.5°	10508.6	10547.5	10642.7	10781.1	10798.4	10807.1	10789.8	10737.9	10642.7	10469.6
35°	11144.5	11187.8	11296.0	11408.4	11391.1	11408.4	11382.5	11365.2	11296.0	11097.0
37.5°	11923.3	11975.2	12087.7	12174.2	12130.9	12109.3	12113.6	12118.0	12079.0	11858.4
40°	12827.5	12896.7	12978.9	13069.7	12996.2	12931.3	12974.6	13009.2	12974.6	12749.6
42.5°	13757.6	13857.1	13943.7	14073.4	14012.9	13930.7	13991.2	14030.2	13956.6	13714.4
45°	14791.6	14886.8	14999.3	15194.0	15150.7	15064.2	15150.7	15159.3	15033.9	14748.4
47.5°	15860.2	15959.7	16128.4	16388.0	16370.7	16275.5	16388.0	16327.5	16167.4	15825.6
50°	16872.6	17011.0	17270.6	17634.0	17668.6	17551.8	17703.2	17586.4	17318.2	16889.9
52.5°	17824.3	17971.4	18382.4	18875.6	19001.1	18849.7	19053.0	18849.7	18447.3	17897.9
55°	18823.7	18988.1	19477.0	20121.6	20372.5	20260.1	20450.4	20143.2	19572.2	18905.9
57.5°	20000.5	20100.0	20684.0	21449.8	21873.8	21899.7	21986.2	21467.1	20774.9	20017.8
60°	21276.7	21415.2	22051.1	22968.3	23638.9	23855.2	23764.4	22994.3	22189.6	21320.0
62.5°	22912.1	23063.5	23824.9	24923.8	25983.7	26520.2	26165.5	25049.3	24054.2	23011.6
65°	24266.2	24434.9	25810.7	27770.5	29700.0	30777.3	29886.1	27831.1	26040.0	24569.0
67.5°	23284.1	23491.8	25650.6	29250.1	34048.0	37262.4	34212.4	29691.4	26182.8	24188.3
70°	20350.9	20545.6	23063.5	27463.3	35272.3	42315.5	36007.8	28272.4	23145.7	20913.3
72.5°	13511.0	14138.3	16686.5	21964.6	31495.5	39157.3	31806.9	21519.0	15479.5	13480.7
75°	4482.0	4983.9	6723.1	11386.8	21095.0	29284.7	20082.7	10075.9	5325.7	3833.1
77.5°	1129.2	1302.2	1795.4	3257.7	8414.7	16673.6	7575.3	2660.7	1449.3	1012.4
80°	549.4	605.7	865.3	1085.9	2106.9	5299.7	1977.1	1021.0	683.6	527.8
82.5°	302.8	307.2	488.9	614.3	783.1	1371.4	813.3	597.0	393.7	320.1
85°	186.0	181.7	259.6	328.8	328.8	488.9	389.4	328.8	225.0	199.0
87.5°	73.5	73.5	95.2	103.8	90.9	125.5	99.5	108.2	86.5	82.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
8254.6
8297.8
8362.7
8440.6
8514.2
8587.7
8704.5
8847.3
9011.7
9176.1
9362.1
9617.4
9980.8
10474.0
11097.0
11858.4
12749.6
13731.7
14778.6
15804.0
16881.2
17846.0
18815.1
19914.0
21181.6
22829.9
24326.8
23889.8
20614.8
13043.8
3625.4
904.2
484.5
320.1
207.7
86.5
0.0

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