

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: P956086

Luminaire Tested: **GALN-SB8D-835-U-5MQ**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956086
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-835-U-5MQ
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 80 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: 79929 lumens
Efficiency: N/A
Efficacy: 136.7 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

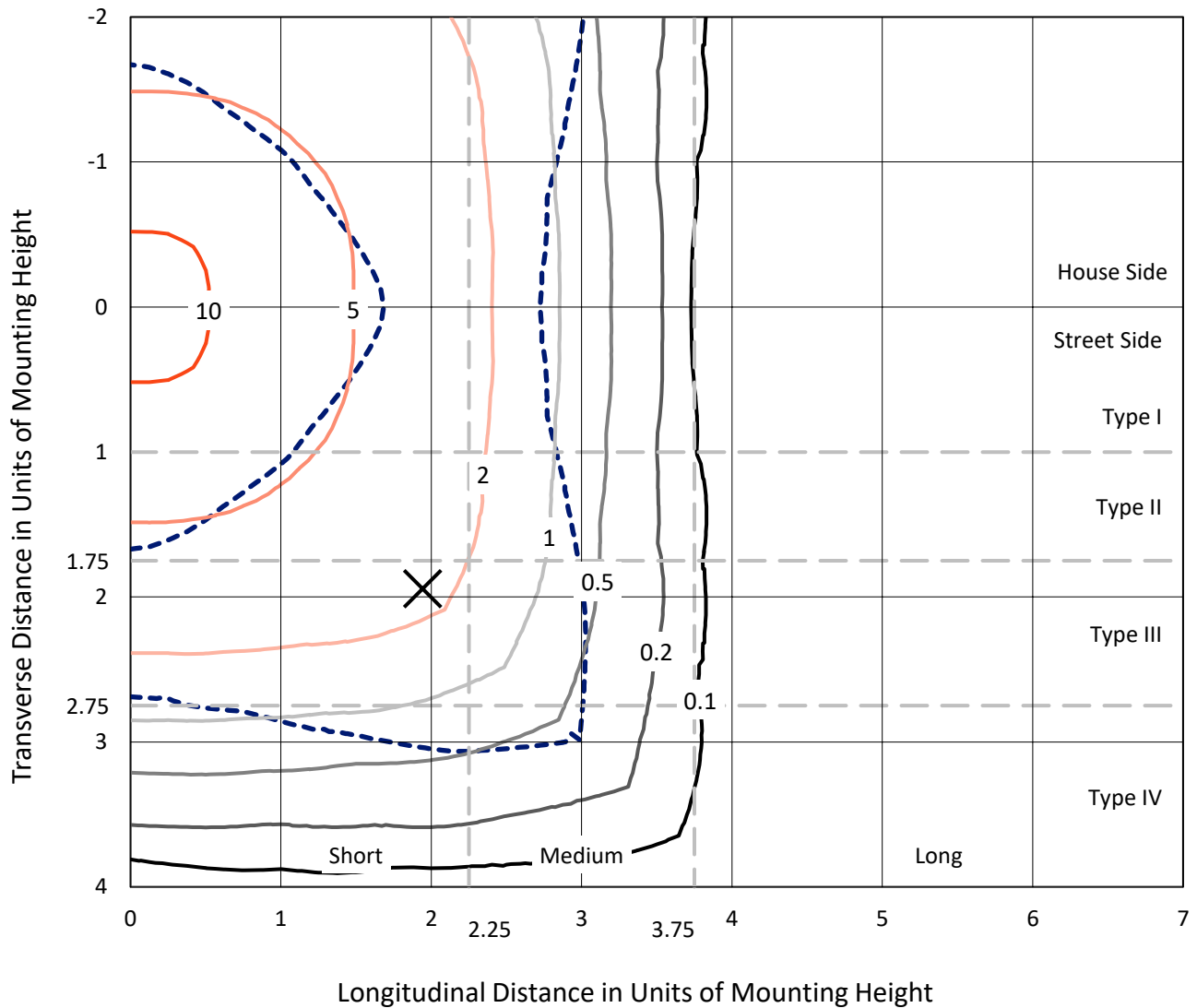
Input Watts (W): 584.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

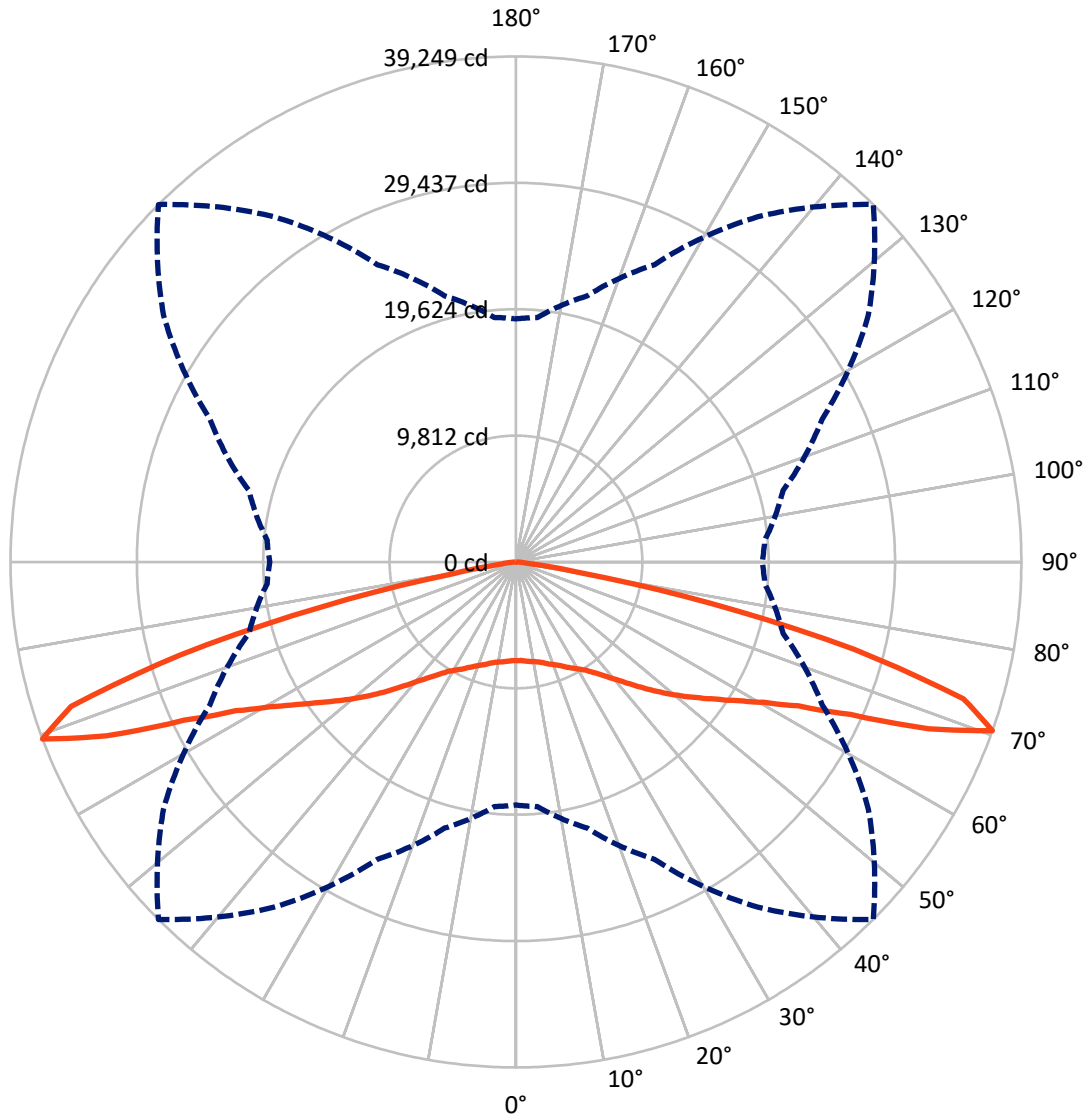
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 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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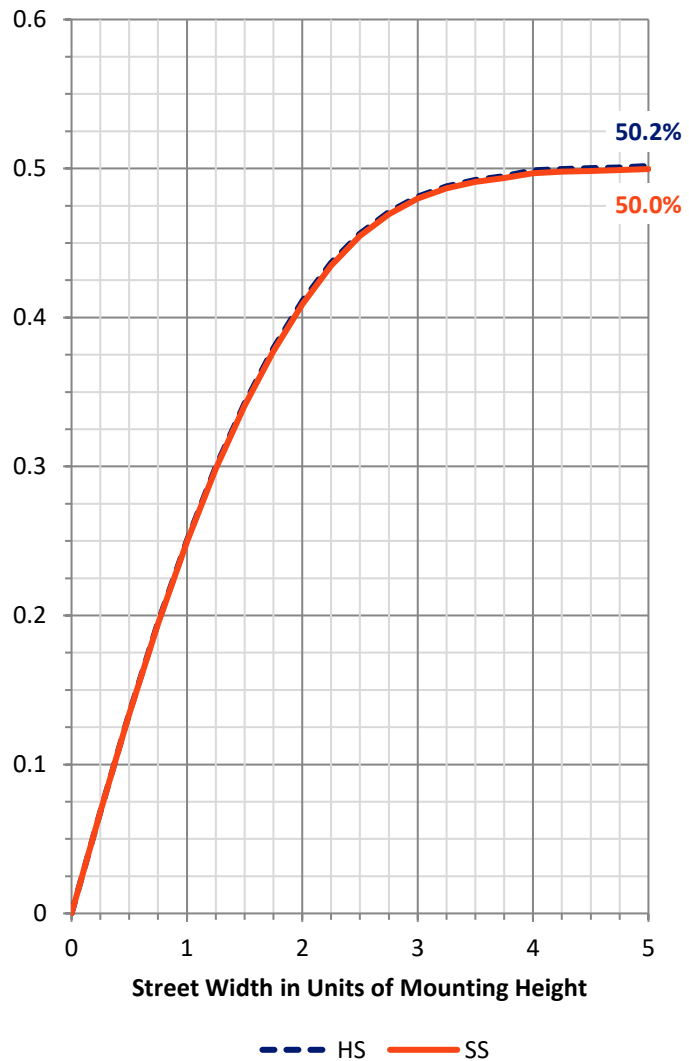
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39964.5	0.0	39964.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	39964.5	0.0	39964.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	79929.0	0.0	79929.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	743.8	0.9
10°-20°	2306.5	2.9
20°-30°	4122.0	5.2
30°-40°	6681.7	8.4
40°-50°	10883.3	13.6
50°-60°	16593.4	20.8
60°-70°	24685.7	30.9
70°-80°	13454.5	16.8
80°-90°	458.2	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°	79929.0	100.0
0°-180°	79929.0	100.0



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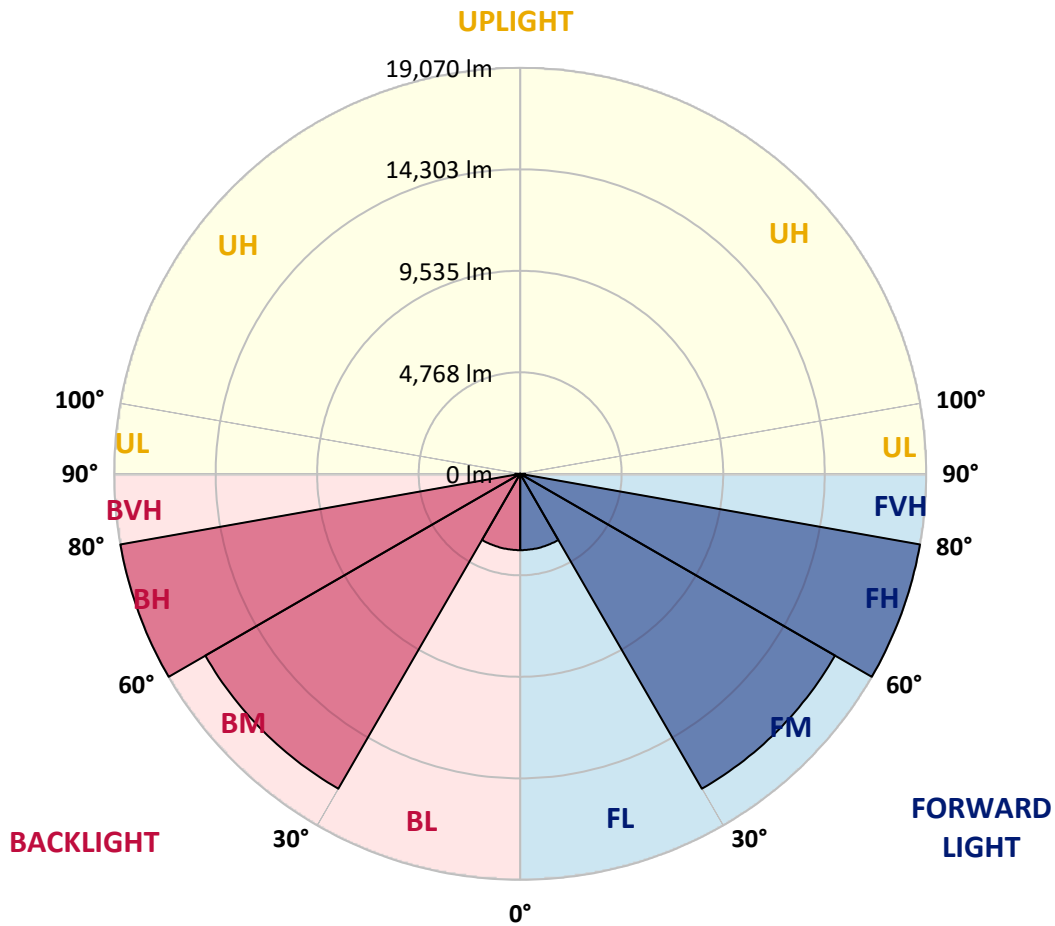
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3586.1	4.5			
FM (30°-60°)	17079.2	21.4			
FH (60°-80°)	19070.1	23.9			G5
FVH (80°-90°)	229.1	0.3			G3/500
BL (0°-30°)	3586.1	4.5	B4/5000		
BM (30°-60°)	17079.2	21.4	B5		
BH (60°-80°)	19070.1	23.9	B5		G5
BVH (80°-90°)	229.1	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°	7656.4	7656.4	7656.4	7656.4	7656.4	7656.4	7656.4	7656.4	7656.4	7656.4
2.5°	7692.5	7700.5	7684.5	7676.4	7668.4	7656.4	7660.4	7680.4	7696.5	7692.5
5°	7756.7	7764.7	7752.7	7748.7	7732.6	7728.6	7728.6	7748.7	7760.7	7752.7
7.5°	7828.9	7841.0	7820.9	7816.9	7808.9	7800.8	7796.8	7816.9	7828.9	7828.9
10°	7897.1	7909.2	7893.1	7881.1	7873.1	7873.1	7865.0	7881.1	7901.2	7897.1
12.5°	7969.4	7977.4	7961.3	7953.3	7953.3	7965.4	7953.3	7961.3	7977.4	7969.4
15°	8057.6	8061.7	8057.6	8069.7	8089.8	8129.9	8093.8	8085.7	8093.8	8073.7
17.5°	8178.0	8186.1	8202.1	8230.2	8258.3	8330.5	8266.3	8246.2	8246.2	8206.1
20°	8326.5	8338.5	8362.6	8410.8	8446.9	8515.1	8450.9	8422.8	8410.8	8358.6
22.5°	8483.0	8503.1	8539.2	8603.4	8667.6	8731.8	8667.6	8619.4	8583.3	8515.1
25°	8663.6	8687.7	8743.8	8848.2	8936.4	9028.7	8952.5	8856.2	8784.0	8687.7
27.5°	8920.4	8948.5	9016.7	9145.1	9257.5	9337.7	9265.5	9141.1	9040.8	8924.4
30°	9281.5	9309.6	9389.9	9526.3	9602.6	9654.7	9606.6	9510.3	9389.9	9257.5
32.5°	9747.0	9783.1	9871.4	9999.8	10015.9	10023.9	10007.9	9959.7	9871.4	9710.9
35°	10336.9	10377.0	10477.4	10581.7	10565.6	10581.7	10557.6	10541.6	10477.4	10292.8
37.5°	11059.2	11107.4	11211.7	11291.9	11251.8	11231.8	11235.8	11239.8	11203.7	10999.0
40°	11897.9	11962.1	12038.3	12122.6	12054.4	11994.2	12034.3	12066.4	12034.3	11825.6
42.5°	12760.6	12852.9	12933.2	13053.6	12997.4	12921.1	12977.3	13013.4	12945.2	12720.5
45°	13719.7	13808.0	13912.3	14092.9	14052.7	13972.5	14052.7	14060.8	13944.4	13679.5
47.5°	14710.8	14803.1	14959.6	15200.4	15184.3	15096.1	15200.4	15144.2	14995.7	14678.7
50°	15649.8	15778.2	16019.0	16356.1	16388.2	16279.8	16420.3	16311.9	16063.1	15665.9
52.5°	16532.6	16669.1	17050.3	17507.7	17624.1	17483.7	17672.3	17483.7	17110.5	16600.8
55°	17459.6	17612.1	18065.5	18663.4	18896.1	18791.8	18968.4	18683.5	18153.8	17535.8
57.5°	18551.0	18643.3	19185.1	19895.3	20288.6	20312.7	20392.9	19911.4	19269.3	18567.1
60°	19734.8	19863.2	20453.1	21303.8	21925.8	22126.4	22042.2	21327.9	20581.5	19774.9
62.5°	21251.6	21392.1	22098.3	23117.6	24100.7	24598.3	24269.3	23234.0	22311.0	21343.9
65°	22507.6	22664.1	23940.2	25758.0	27547.7	28546.9	27720.2	25814.2	24152.9	22788.5
67.5°	21596.7	21789.4	23791.7	27130.4	31580.5	34562.0	31733.0	27539.7	24285.3	22435.4
70°	18876.1	19056.7	21392.1	25473.1	32716.1	39248.9	33398.3	26223.5	21468.3	19397.7
72.5°	12531.9	13113.7	15477.3	20372.8	29213.0	36319.6	29501.9	19959.5	14357.7	12503.8
75°	4157.2	4622.7	6235.8	10561.6	19566.3	27162.5	18627.3	9345.7	4939.7	3555.3
77.5°	1047.3	1207.8	1665.3	3021.6	7804.8	15465.2	7026.4	2467.9	1344.3	939.0
80°	509.6	561.8	802.6	1007.2	1954.2	4915.6	1833.8	947.0	634.0	489.6
82.5°	280.9	284.9	453.4	569.8	726.3	1272.0	754.4	553.8	365.2	296.9
85°	172.5	168.5	240.8	305.0	305.0	453.4	361.1	305.0	208.7	184.6
87.5°	68.2	68.2	88.3	96.3	84.3	116.4	92.3	100.3	80.3	76.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
7656.4
7696.5
7756.7
7828.9
7897.1
7965.4
8073.7
8206.1
8358.6
8511.1
8683.6
8920.4
9257.5
9714.9
10292.8
10999.0
11825.6
12736.5
13707.6
14658.7
15657.8
16552.7
17451.5
18470.8
19646.5
21175.4
22563.8
22158.5
19120.9
12098.5
3362.7
838.7
449.4
296.9
192.6
80.3
0.0

OF REPORT)