

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: P943840

Luminaire Tested: **GALN-SB8C-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8C-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

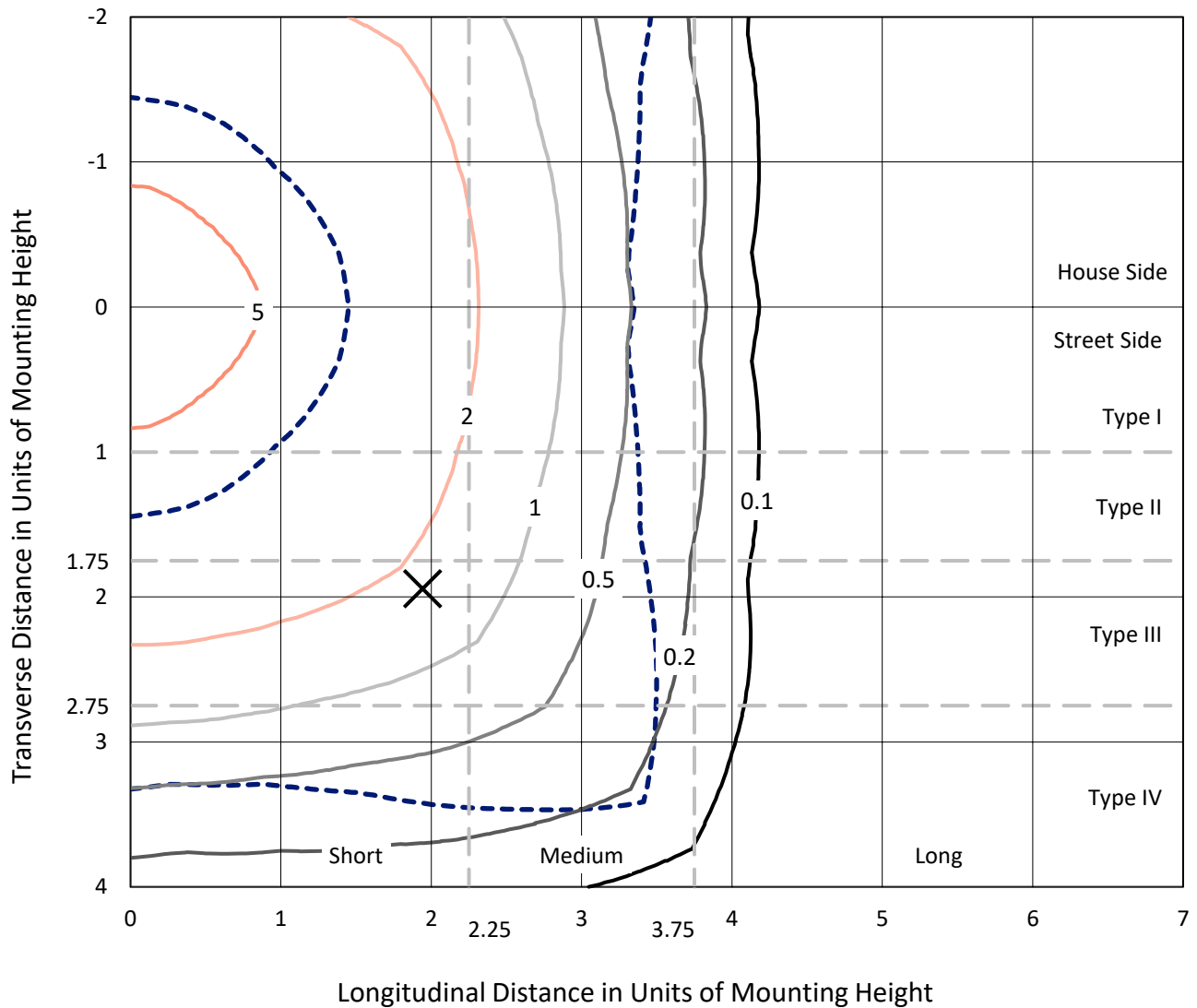
Lumens per Lamp: N/A  
Luminaire Lumens: 61255 lumens  
Efficiency: N/A  
Efficacy: 153.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 399.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

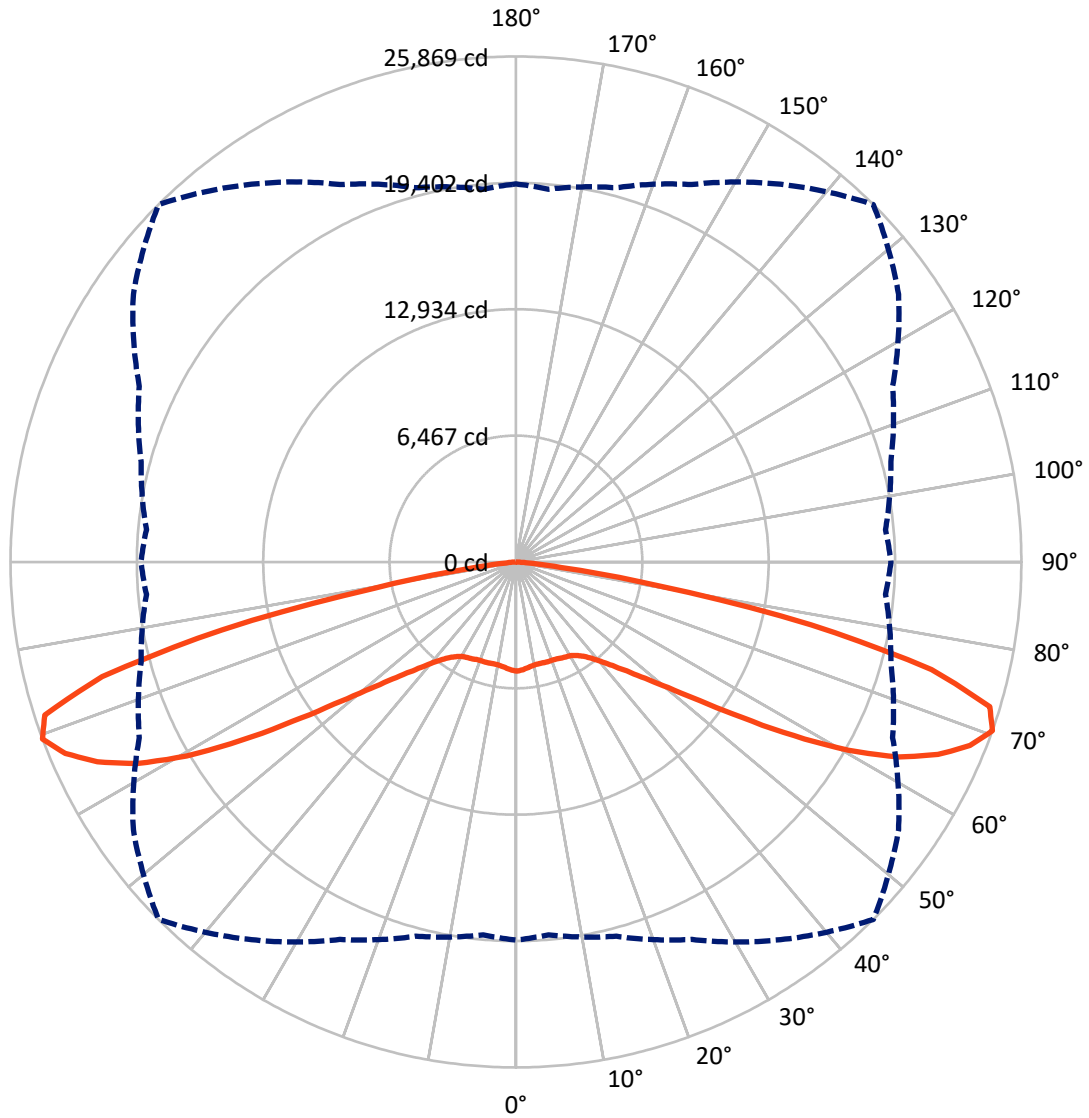
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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
<b>House Side</b>	Lumens	30627.5	0.0	30627.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	30627.5	0.0	30627.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	61255.0	0.0	61255.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	519.8	0.8
10°-20°	1526.2	2.5
20°-30°	2539.8	4.1
30°-40°	3841.0	6.3
40°-50°	6382.9	10.4
50°-60°	12044.2	19.7
60°-70°	20337.2	33.2
70°-80°	13363.6	21.8
80°-90°	700.1	1.1
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°	61255.0	100.0
0°-180°	61255.0	100.0



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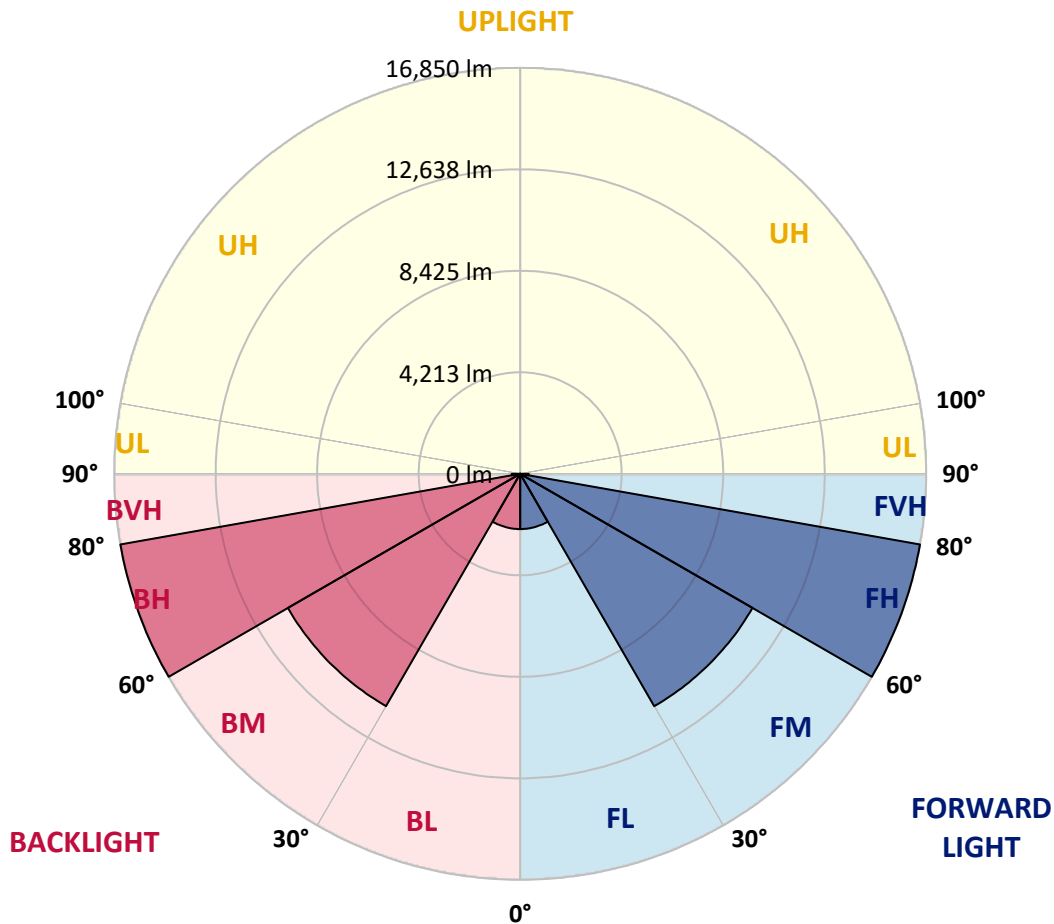
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2292.9	3.7			
FM (30°-60°)	11134.1	18.2			
FH (60°-80°)	16850.4	27.5			G5
FVH (80°-90°)	350.1	0.6			G3/500
BL (0°-30°)	2292.9	3.7	B3/2500		
BM (30°-60°)	11134.1	18.2	B5		
BH (60°-80°)	16850.4	27.5	B5		G5
BVH (80°-90°)	350.1	0.6			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°	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7	5587.7
2.5°	5552.7	5568.6	5562.2	5549.5	5549.5	5539.9	5549.5	5555.9	5565.4	5571.8
5°	5479.4	5492.2	5489.0	5479.4	5482.6	5473.1	5479.4	5489.0	5495.4	5498.5
7.5°	5415.8	5428.5	5422.1	5406.2	5406.2	5396.7	5399.8	5409.4	5418.9	5422.1
10°	5399.8	5412.6	5393.5	5368.0	5358.5	5345.7	5348.9	5358.5	5377.6	5387.1
12.5°	5406.2	5415.8	5396.7	5358.5	5348.9	5336.2	5336.2	5345.7	5371.2	5383.9
15°	5425.3	5434.9	5406.2	5364.8	5355.3	5345.7	5342.5	5355.3	5383.9	5406.2
17.5°	5460.3	5469.9	5425.3	5368.0	5355.3	5358.5	5355.3	5364.8	5409.4	5450.8
20°	5492.2	5498.5	5438.0	5368.0	5355.3	5358.5	5355.3	5374.4	5431.7	5489.0
22.5°	5501.7	5508.1	5450.8	5390.3	5380.7	5383.9	5380.7	5399.8	5454.0	5511.3
25°	5504.9	5514.5	5469.9	5422.1	5438.0	5444.4	5438.0	5441.2	5482.6	5533.6
27.5°	5552.7	5565.4	5524.0	5482.6	5492.2	5489.0	5498.5	5508.1	5539.9	5590.9
30°	5651.4	5660.9	5625.9	5584.5	5578.1	5555.9	5584.5	5616.3	5651.4	5695.9
32.5°	5813.7	5832.8	5788.3	5743.7	5715.0	5702.3	5724.6	5778.7	5826.5	5874.2
35°	6084.4	6097.1	6055.7	5972.9	5922.0	5922.0	5941.1	6011.1	6087.6	6148.1
37.5°	6466.4	6482.4	6409.1	6310.4	6234.0	6234.0	6259.5	6332.7	6447.3	6533.3
40°	6931.3	6953.6	6861.2	6759.4	6686.1	6673.4	6705.2	6788.0	6896.3	7004.5
42.5°	7491.6	7517.1	7396.1	7307.0	7249.7	7249.7	7265.6	7342.0	7440.7	7574.4
45°	8208.0	8252.6	8087.0	7997.9	7943.8	7956.5	7966.0	8032.9	8122.0	8274.9
47.5°	9061.3	9105.9	8930.8	8838.4	8828.9	8889.4	8851.2	8898.9	8946.7	9121.8
50°	10029.2	10105.6	9984.6	9978.2	9997.3	10108.8	10019.6	10045.1	9991.0	10102.4
52.5°	11213.6	11325.0	11302.7	11340.9	11554.3	11783.5	11579.7	11490.6	11286.8	11321.8
55°	12649.5	12818.3	12850.1	13079.3	13563.3	14031.3	13598.3	13238.5	12805.5	12725.9
57.5°	14282.8	14416.6	14569.4	15037.4	15941.6	16772.6	15941.6	15145.7	14464.3	14301.9
60°	16040.3	16205.9	16352.3	17043.2	18386.8	19555.3	18361.4	17097.4	16196.3	15976.7
62.5°	17928.4	18141.7	18243.6	19010.9	20577.3	21971.9	20599.6	19068.2	18068.5	17832.8
65°	19740.0	19915.1	20029.7	20848.0	22344.4	23742.1	22446.3	20937.1	19908.7	19599.9
67.5°	20583.7	20679.2	20959.4	21885.9	23465.1	25060.2	23732.6	21984.6	20835.2	20294.0
70°	19348.4	19154.2	19829.1	21312.8	23598.8	25868.9	23904.5	21268.2	19861.0	18982.2
72.5°	14951.4	14617.1	15788.8	18326.3	22070.6	25353.1	22223.4	18469.6	16517.9	14734.9
75°	8134.8	7755.9	9373.3	12582.6	17600.4	21975.1	18004.8	12942.4	10436.7	8074.3
77.5°	2295.6	2152.3	3457.7	6087.6	10586.4	15429.0	10993.9	6221.3	4100.8	2432.5
80°	703.6	681.3	923.3	1833.9	4495.6	7389.8	4320.5	1856.2	1174.8	741.8
82.5°	417.1	382.1	458.5	668.6	1146.2	2321.0	1114.4	697.3	560.4	375.7
85°	238.8	222.9	270.6	324.8	385.2	493.5	321.6	331.1	299.3	200.6
87.5°	98.7	89.1	105.1	101.9	89.1	114.6	86.0	101.9	121.0	79.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5587.7
5568.6
5498.5
5422.1
5387.1
5387.1
5409.4
5450.8
5492.2
5511.3
5530.4
5578.1
5686.4
5855.1
6125.8
6501.5
6969.5
7564.9
8268.5
9070.8
10035.6
11204.0
12601.8
14187.3
15785.6
17641.8
19447.1
20300.3
19192.4
15177.5
8599.6
2703.1
783.2
407.5
210.1
73.2
0.0

OF REPORT)