

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: P943670

Luminaire Tested: **GALN-SB8B-735-U-5WQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P943670  
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-SB8B-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

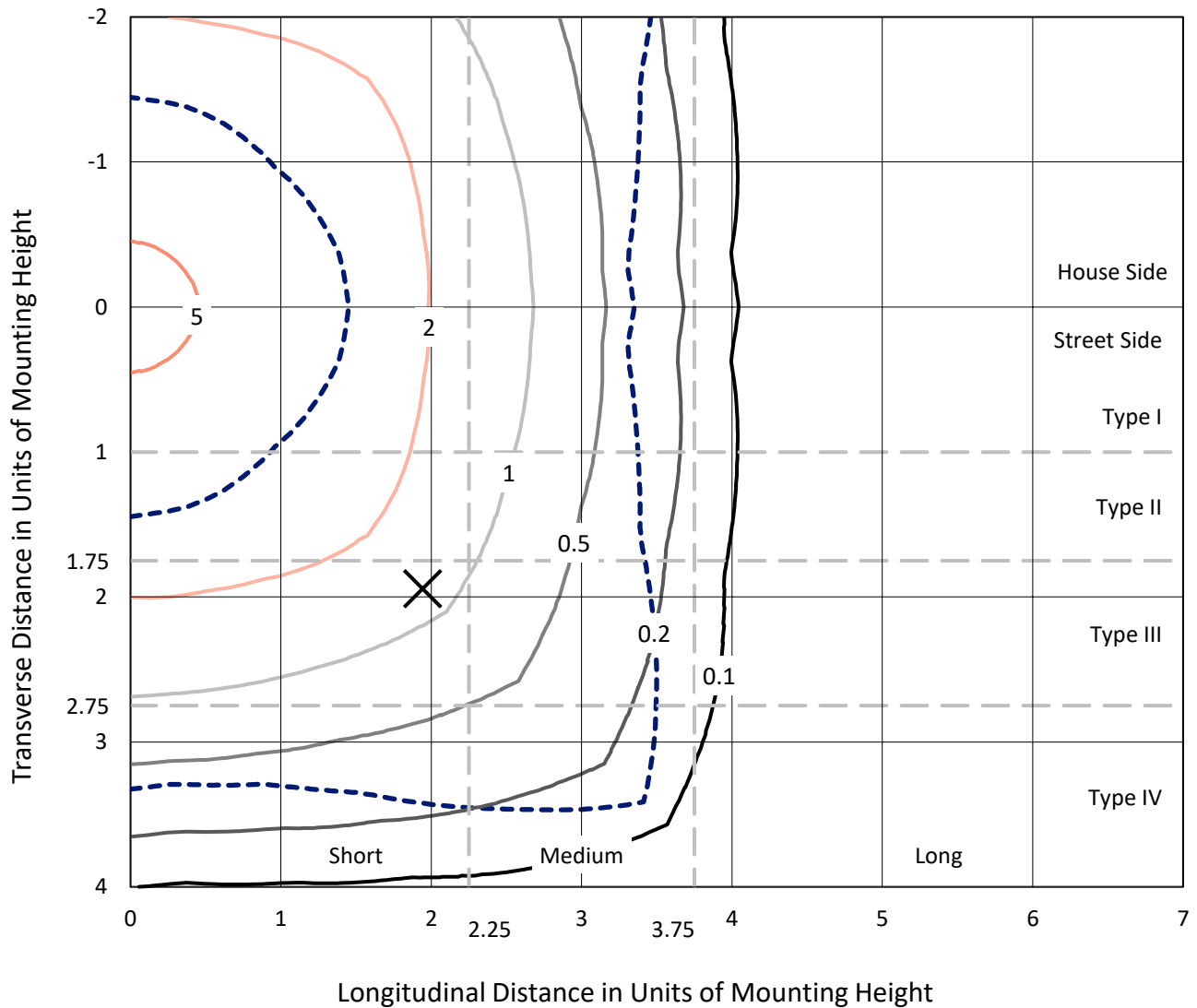
Lumens per Lamp: N/A  
Luminaire Lumens: 46058 lumens  
Efficiency: N/A  
Efficacy: 157.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

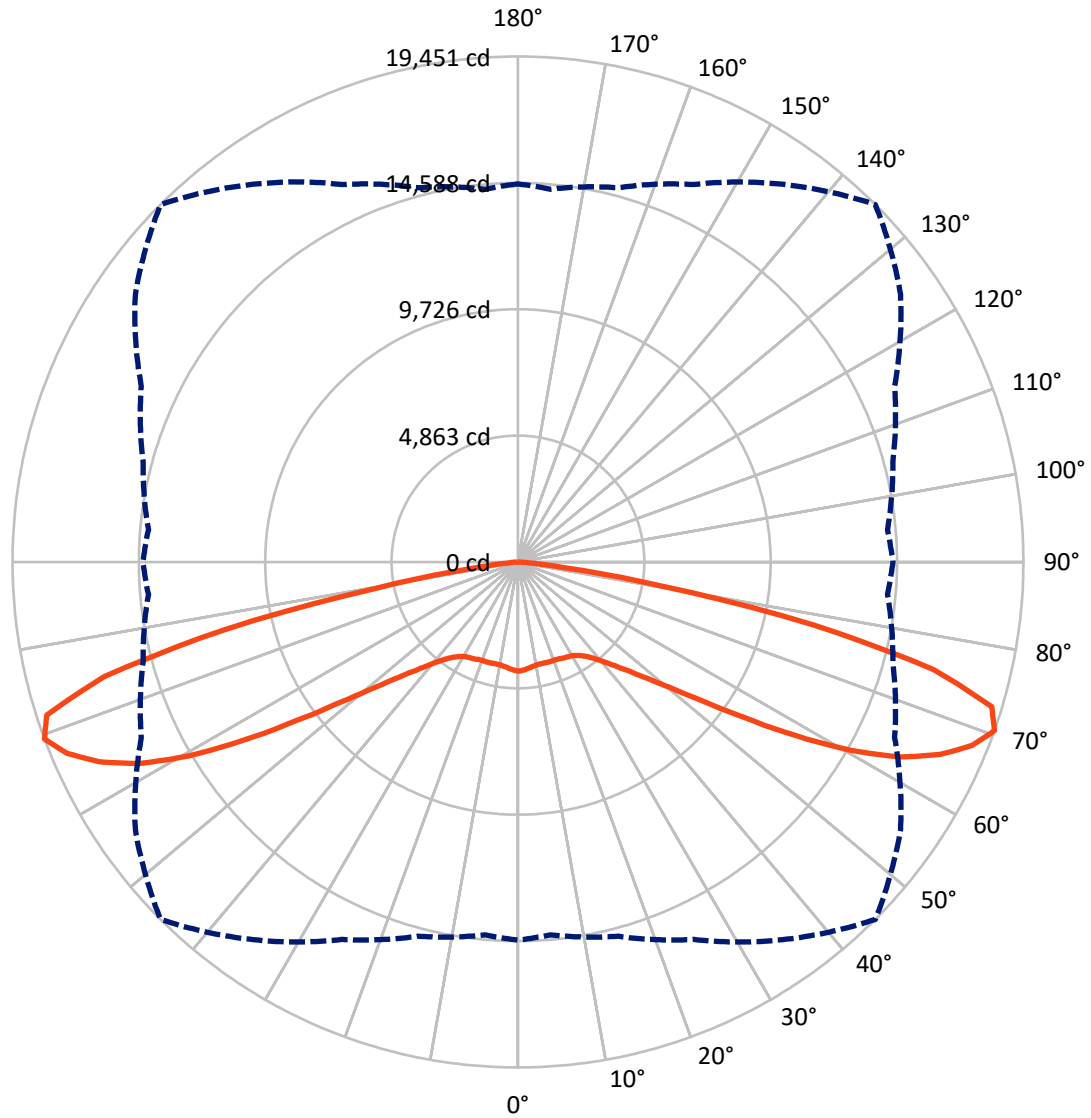
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	23029.0	0.0	23029.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23029.0	0.0	23029.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46058.0	0.0	46058.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.8	0.8
10°-20°	1147.6	2.5
20°-30°	1909.7	4.1
30°-40°	2888.1	6.3
40°-50°	4799.3	10.4
50°-60°	9056.1	19.7
60°-70°	15291.7	33.2
70°-80°	10048.2	21.8
80°-90°	526.4	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°	46058.0	100.0
0°-180°	46058.0	100.0

**Coefficient of Utilization**



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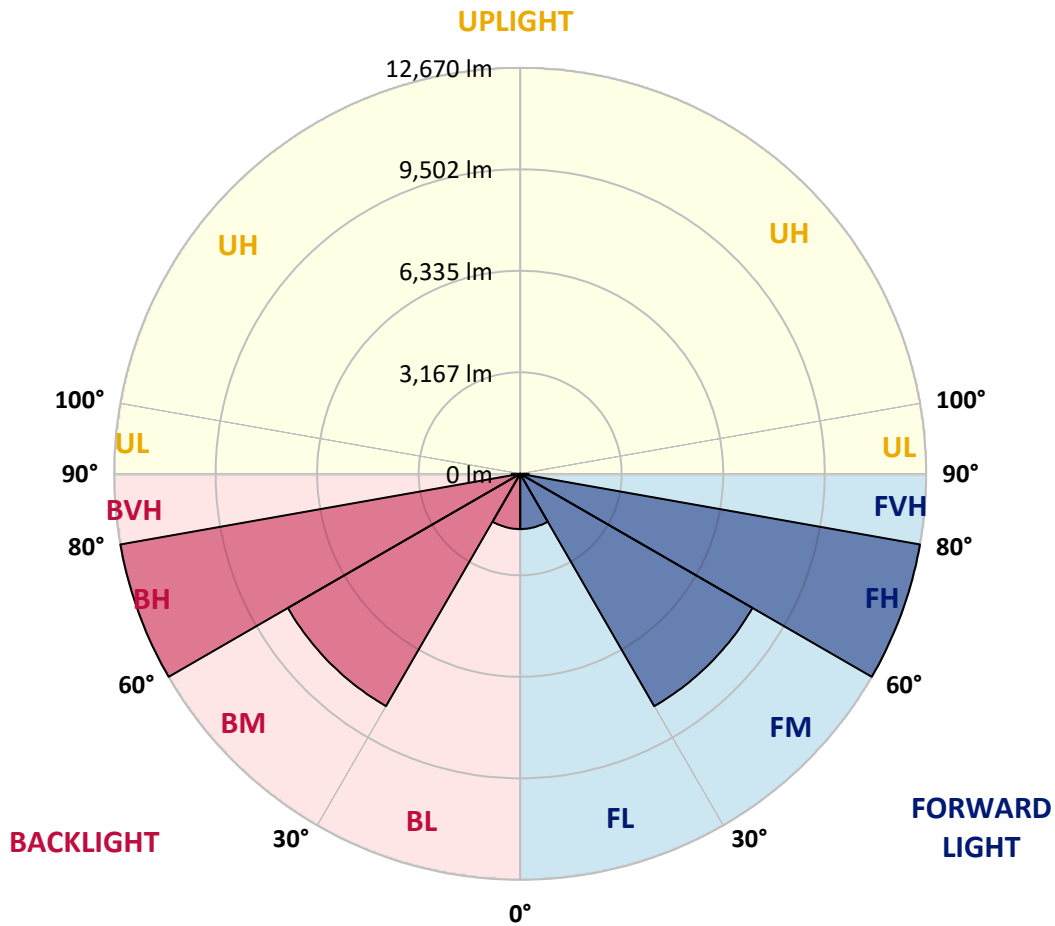
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.1	3.7			
FM (30°-60°)	8371.8	18.2			
FH (60°-80°)	12669.9	27.5			G5
FVH (80°-90°)	263.2	0.6			G3/500
BL (0°-30°)	1724.1	3.7	B3/2500		
BM (30°-60°)	8371.8	18.2	B4/8500		
BH (60°-80°)	12669.9	27.5	B5		G5
BVH (80°-90°)	263.2	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°	4201.4	4201.4	4201.4	4201.4	4201.4	4201.4	4201.4	4201.4	4201.4	4201.4
2.5°	4175.1	4187.1	4182.3	4172.7	4172.7	4165.5	4172.7	4177.5	4184.7	4189.4
5°	4120.0	4129.6	4127.2	4120.0	4122.4	4115.2	4120.0	4127.2	4132.0	4134.4
7.5°	4072.1	4081.7	4076.9	4065.0	4065.0	4057.8	4060.2	4067.4	4074.5	4076.9
10°	4060.2	4069.7	4055.4	4036.2	4029.1	4019.5	4021.9	4029.1	4043.4	4050.6
12.5°	4065.0	4072.1	4057.8	4029.1	4021.9	4012.3	4012.3	4019.5	4038.6	4048.2
15°	4079.3	4086.5	4065.0	4033.8	4026.7	4019.5	4017.1	4026.7	4048.2	4065.0
17.5°	4105.7	4112.8	4079.3	4036.2	4026.7	4029.1	4026.7	4033.8	4067.4	4098.5
20°	4129.6	4134.4	4088.9	4036.2	4026.7	4029.1	4026.7	4041.0	4084.1	4127.2
22.5°	4136.8	4141.6	4098.5	4053.0	4045.8	4048.2	4045.8	4060.2	4100.9	4144.0
25°	4139.2	4146.4	4112.8	4076.9	4088.9	4093.7	4088.9	4091.3	4122.4	4160.7
27.5°	4175.1	4184.7	4153.5	4122.4	4129.6	4127.2	4134.4	4141.6	4165.5	4203.8
30°	4249.3	4256.5	4230.1	4199.0	4194.2	4177.5	4199.0	4223.0	4249.3	4282.8
32.5°	4371.4	4385.8	4352.2	4318.7	4297.2	4287.6	4304.4	4345.1	4381.0	4416.9
35°	4574.9	4584.5	4553.3	4491.1	4452.8	4452.8	4467.1	4519.8	4577.3	4622.8
37.5°	4862.2	4874.1	4819.1	4744.8	4687.4	4687.4	4706.5	4761.6	4847.8	4912.4
40°	5211.7	5228.4	5159.0	5082.4	5027.3	5017.8	5041.7	5103.9	5185.3	5266.7
42.5°	5633.0	5652.2	5561.2	5494.2	5451.1	5451.1	5463.0	5520.5	5594.7	5695.3
45°	6171.7	6205.2	6080.7	6013.7	5973.0	5982.5	5989.7	6040.0	6107.0	6221.9
47.5°	6813.2	6846.8	6715.1	6645.7	6638.5	6684.0	6655.2	6691.1	6727.1	6858.7
50°	7541.0	7598.5	7507.5	7502.7	7517.1	7600.9	7533.8	7553.0	7512.3	7596.1
52.5°	8431.6	8515.4	8498.6	8527.3	8687.7	8860.1	8706.9	8639.8	8486.6	8513.0
55°	9511.2	9638.1	9662.1	9834.4	10198.3	10550.2	10224.6	9954.1	9628.5	9568.7
57.5°	10739.3	10839.9	10954.8	11306.7	11986.6	12611.4	11986.6	11388.1	10875.8	10753.7
60°	12060.8	12185.3	12295.4	12814.9	13825.2	14703.8	13806.0	12855.6	12178.1	12012.9
62.5°	13480.4	13640.8	13717.4	14294.4	15472.2	16520.8	15489.0	14337.5	13585.8	13408.6
65°	14842.6	14974.3	15060.5	15675.7	16800.9	17851.8	16877.5	15742.7	14969.5	14737.3
67.5°	15477.0	15548.8	15759.5	16456.1	17643.6	18842.9	17844.7	16530.4	15666.1	15259.2
70°	14548.2	14402.1	14909.6	16025.2	17744.1	19451.0	17973.9	15991.7	14933.6	14272.8
72.5°	11242.1	10990.7	11871.7	13779.7	16595.0	19063.2	16709.9	13887.4	12419.9	11079.3
75°	6116.6	5831.7	7047.8	9461.0	13233.9	16523.2	13537.9	9731.5	7847.4	6071.1
77.5°	1726.1	1618.3	2599.9	4577.3	7959.9	11601.2	8266.4	4677.8	3083.4	1829.0
80°	529.1	512.3	694.3	1378.9	3380.3	5556.4	3248.6	1395.7	883.4	557.8
82.5°	313.6	287.3	344.7	502.7	861.8	1745.2	837.9	524.3	421.3	282.5
85°	179.5	167.6	203.5	244.2	289.7	371.1	241.8	249.0	225.0	150.8
87.5°	74.2	67.0	79.0	76.6	67.0	86.2	64.6	76.6	91.0	59.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4201.4
4187.1
4134.4
4076.9
4050.6
4050.6
4067.4
4098.5
4129.6
4144.0
4158.3
4194.2
4275.6
4402.5
4606.0
4888.5
5240.4
5688.1
6217.1
6820.4
7545.8
8424.4
9475.3
10667.5
11869.3
13265.0
14622.4
15264.0
14430.8
11412.1
6466.1
2032.5
588.9
306.4
158.0
55.1
0.0

OF REPORT)