

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: P955247

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

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P955247  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
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-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

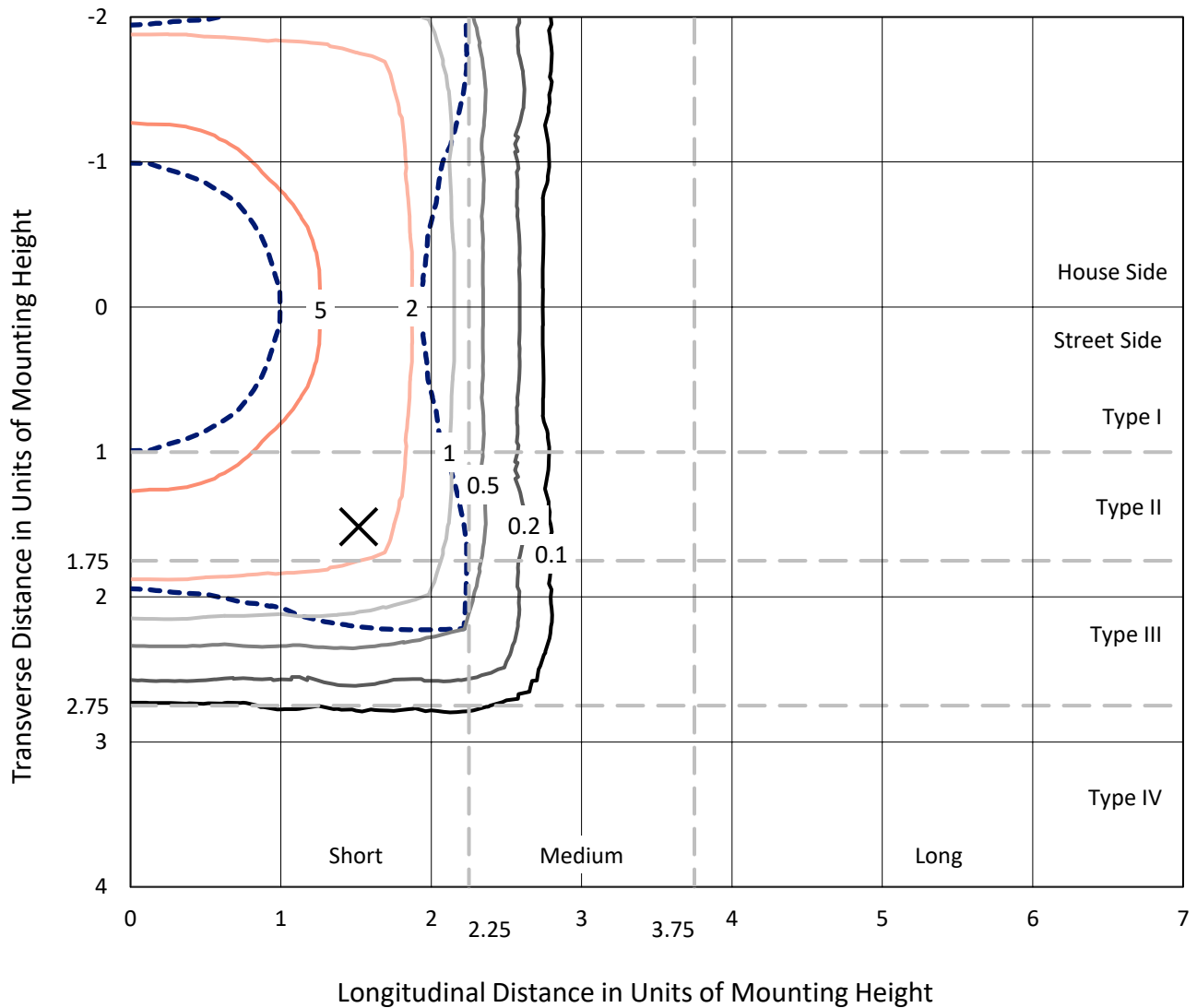
Lumens per Lamp: N/A  
Luminaire Lumens: 47714 lumens  
Efficiency: N/A  
Efficacy: 163.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 292.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

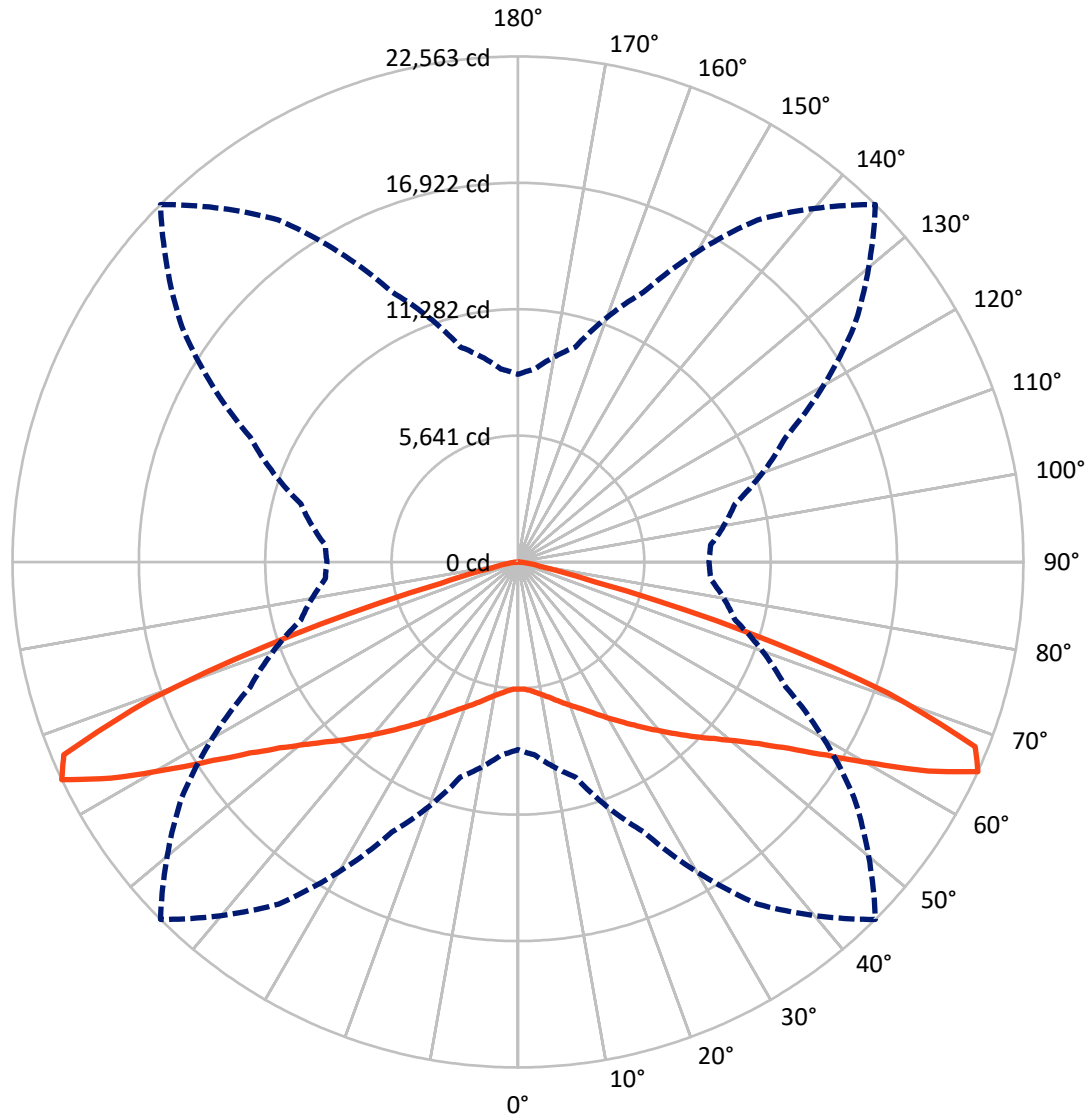
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23857.0	0.0	23857.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23857.0	0.0	23857.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	47714.0	0.0	47714.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	560.4	1.2
10°-20°	1828.7	3.8
20°-30°	3452.7	7.2
30°-40°	5653.7	11.8
40°-50°	8766.1	18.4
50°-60°	12949.3	27.1
60°-70°	12326.6	25.8
70°-80°	1989.1	4.2
80°-90°	187.5	0.4
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°	47714.0	100.0
0°-180°	47714.0	100.0

**Coefficient of Utilization**



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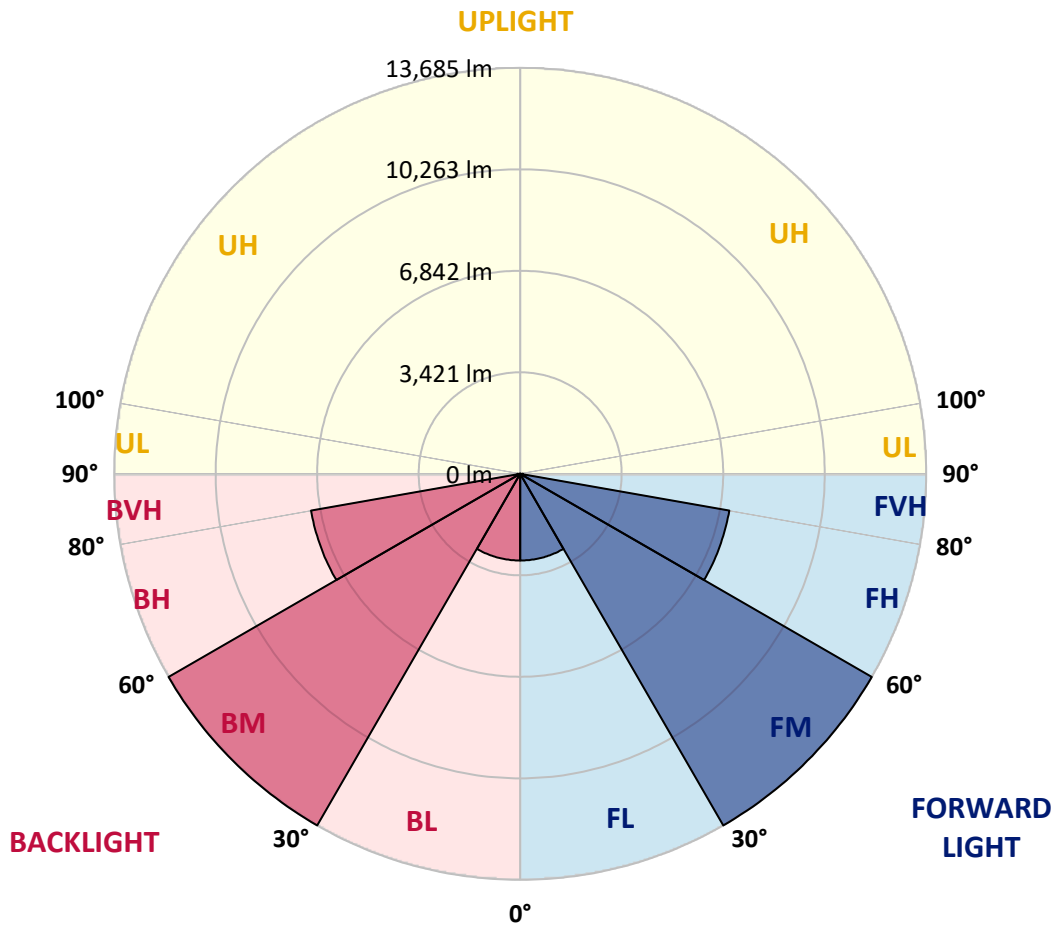
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2920.9	6.1			
FM (30°-60°)	13684.6	28.7			
FH (60°-80°)	7157.8	15.0			G3/7500
FVH (80°-90°)	93.7	0.2			G1/100
BL (0°-30°)	2920.9	6.1	B4/5000		
BM (30°-60°)	13684.6	28.7	B5		
BH (60°-80°)	7157.8	15.0	B5		G3/7500
BVH (80°-90°)	93.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5678.4	5678.4	5678.4	5678.4	5678.4	5678.4	5678.4	5678.4	5678.4	5678.4
2.5°	5716.7	5697.6	5712.0	5700.0	5690.4	5680.8	5685.6	5702.4	5709.6	5712.0
5°	5793.4	5776.6	5783.8	5783.8	5767.0	5762.2	5764.6	5776.6	5791.0	5791.0
7.5°	5917.8	5901.1	5917.8	5908.3	5893.9	5889.1	5886.7	5896.3	5917.8	5917.8
10°	6068.7	6049.5	6059.1	6054.3	6037.5	6030.4	6028.0	6042.3	6061.5	6059.1
12.5°	6233.8	6212.3	6224.3	6209.9	6205.1	6197.9	6197.9	6195.5	6207.5	6197.9
15°	6418.2	6403.8	6408.6	6399.0	6406.2	6401.4	6382.3	6372.7	6377.5	6363.1
17.5°	6636.0	6602.5	6619.3	6614.5	6614.5	6624.1	6592.9	6581.0	6590.5	6576.2
20°	6887.4	6853.9	6861.1	6851.5	6839.5	6849.1	6810.8	6820.4	6827.5	6818.0
22.5°	7162.7	7119.6	7117.2	7122.0	7095.7	7098.1	7071.7	7095.7	7110.0	7083.7
25°	7445.2	7399.7	7430.8	7418.8	7385.3	7392.5	7373.4	7397.3	7409.3	7375.8
27.5°	7744.4	7713.3	7742.0	7749.2	7708.5	7737.2	7708.5	7730.1	7742.0	7691.8
30°	8093.9	8062.8	8089.1	8108.3	8060.4	8105.9	8082.0	8096.3	8098.7	8038.9
32.5°	8474.6	8426.7	8493.7	8503.3	8450.6	8505.7	8474.6	8493.7	8505.7	8424.3
35°	8939.0	8879.2	8955.8	8943.8	8898.3	8943.8	8915.1	8943.8	8972.5	8874.4
37.5°	9439.3	9377.1	9458.5	9436.9	9393.8	9425.0	9408.2	9427.4	9472.8	9367.5
40°	9989.9	9913.3	10023.5	9985.2	9944.5	9939.7	9949.2	9961.2	10021.1	9903.8
42.5°	10578.9	10497.5	10662.6	10602.8	10545.3	10507.0	10538.2	10562.1	10619.6	10487.9
45°	11251.6	11158.2	11373.6	11301.8	11210.9	11131.9	11182.1	11218.0	11301.8	11143.8
47.5°	11993.7	11888.3	12118.2	12096.6	11948.2	11775.8	11890.7	11993.7	12055.9	11864.4
50°	12719.0	12637.6	12939.3	12965.6	12783.7	12541.9	12702.3	12857.9	12874.6	12623.3
52.5°	13398.9	13317.5	13755.6	13920.8	13758.0	13470.7	13640.7	13798.7	13671.8	13346.3
55°	13942.3	13875.3	14433.1	14859.2	14914.3	14677.3	14777.8	14773.0	14356.5	13856.2
57.5°	14074.0	14064.4	14768.3	15670.8	16245.3	16274.1	16075.4	15567.8	14670.1	13997.4
60°	13475.5	13535.4	14502.5	16094.5	17626.6	18263.4	17404.0	15955.7	14313.4	13379.8
62.5°	11684.9	11842.9	13008.7	15577.4	18742.2	20552.0	18469.3	15366.7	12848.3	11629.8
65°	8374.0	8649.3	9937.3	13293.6	18641.7	22563.0	18316.1	13185.9	10033.0	8627.8
67.5°	3799.2	4079.3	5173.3	9101.8	16204.6	22017.1	16166.3	9197.5	5431.9	4093.7
70°	1376.5	1424.4	1776.3	3643.6	10356.2	17542.8	10799.1	3669.9	1888.8	1517.8
72.5°	833.1	840.3	914.5	1304.7	3598.1	10650.7	3751.3	1347.8	933.6	828.3
75°	529.1	524.3	651.2	797.2	1276.0	3593.3	1338.2	797.2	648.8	591.3
77.5°	380.6	392.6	466.8	596.1	804.4	1218.5	790.0	569.8	466.8	383.0
80°	284.9	292.1	339.9	464.4	565.0	758.9	502.7	421.3	351.9	239.4
82.5°	205.9	205.9	222.6	337.5	344.7	409.4	272.9	296.8	232.2	170.0
85°	122.1	119.7	138.8	201.1	179.5	150.8	124.5	181.9	146.0	105.3
87.5°	43.1	45.5	43.1	57.5	47.9	40.7	38.3	50.3	40.7	35.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5678.4
5712.0
5791.0
5910.7
6054.3
6202.7
6365.5
6588.1
6839.5
7110.0
7414.1
7730.1
8074.8
8479.4
8934.2
9432.2
9942.1
10557.3
11225.2
11929.0
12654.4
13355.8
13872.9
13954.3
13269.7
11558.0
8524.8
4033.8
1498.6
842.7
596.1
390.2
246.6
170.0
102.9
33.5
0.0

OF REPORT)