

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: P953819

Luminaire Tested: **GALN-SB7B-735-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P953819  
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-SB7B-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

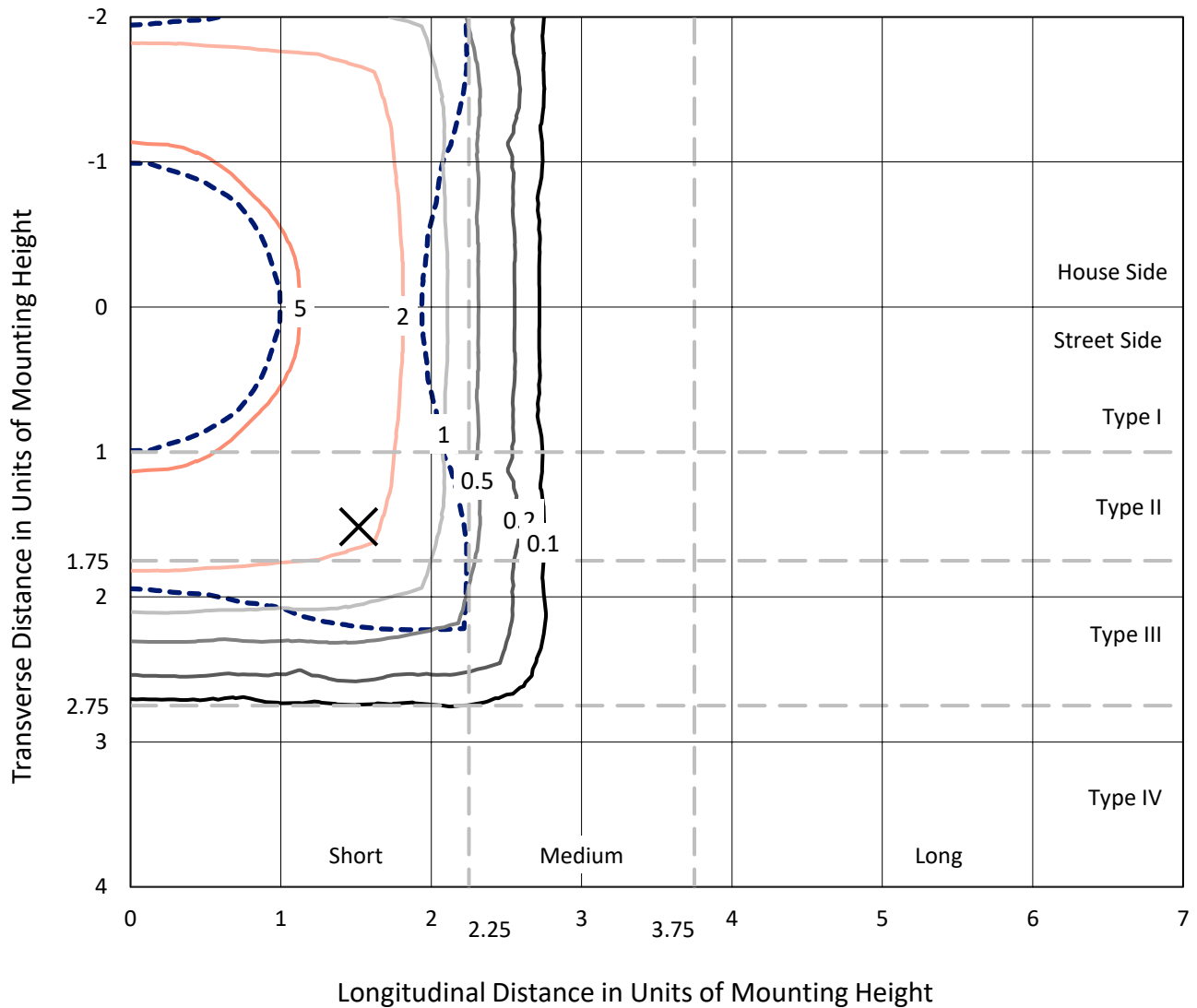
Lumens per Lamp: N/A  
Luminaire Lumens: 41964 lumens  
Efficiency: N/A  
Efficacy: 163.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 256.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

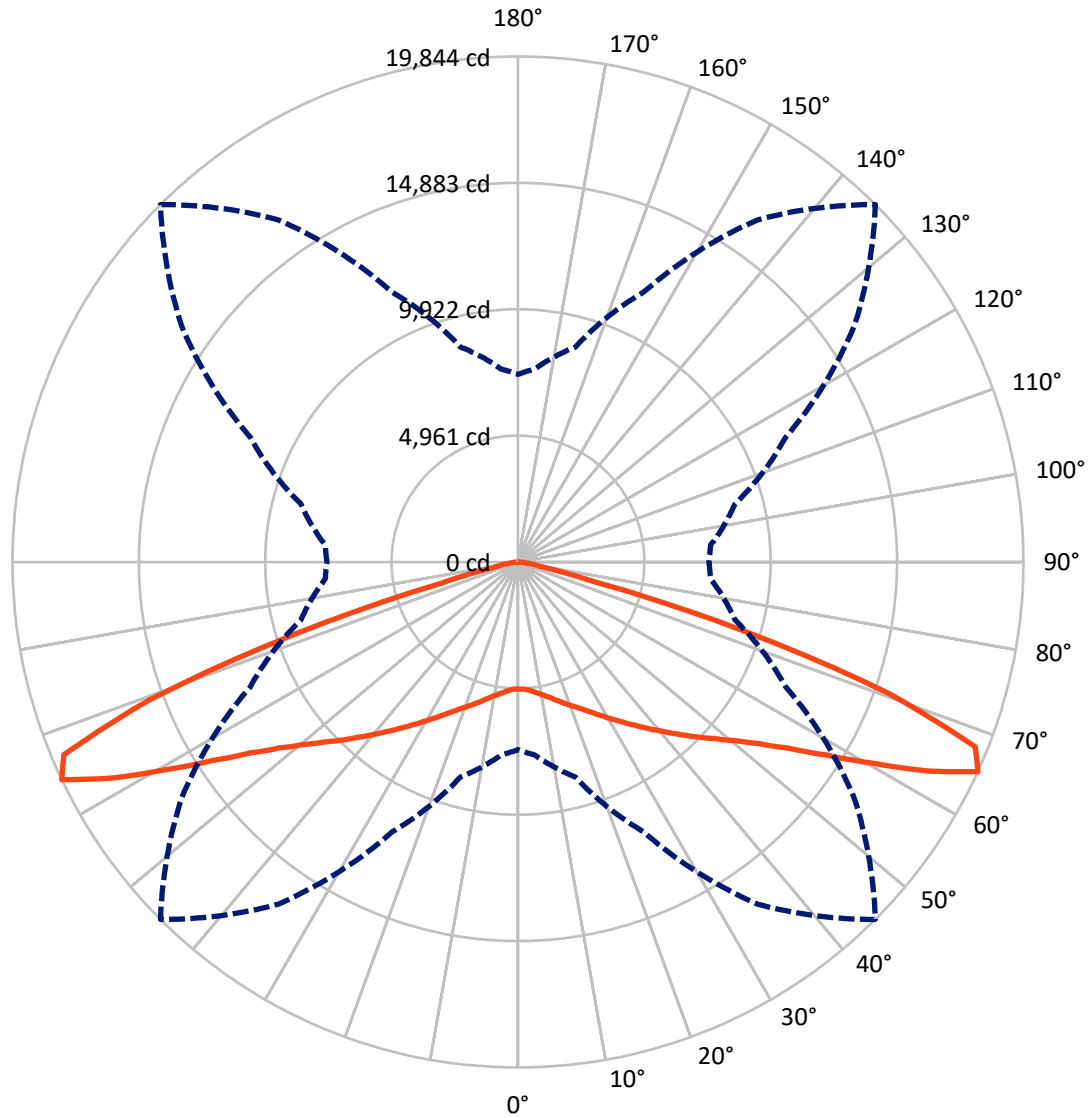
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 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	20982.0	0.0	20982.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	20982.0	0.0	20982.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	41964.0	0.0	41964.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	492.9	1.2
10°-20°	1608.3	3.8
20°-30°	3036.6	7.2
30°-40°	4972.4	11.8
40°-50°	7709.7	18.4
50°-60°	11388.8	27.1
60°-70°	10841.1	25.8
70°-80°	1749.4	4.2
80°-90°	164.9	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°	41964.0	100.0
0°-180°	41964.0	100.0



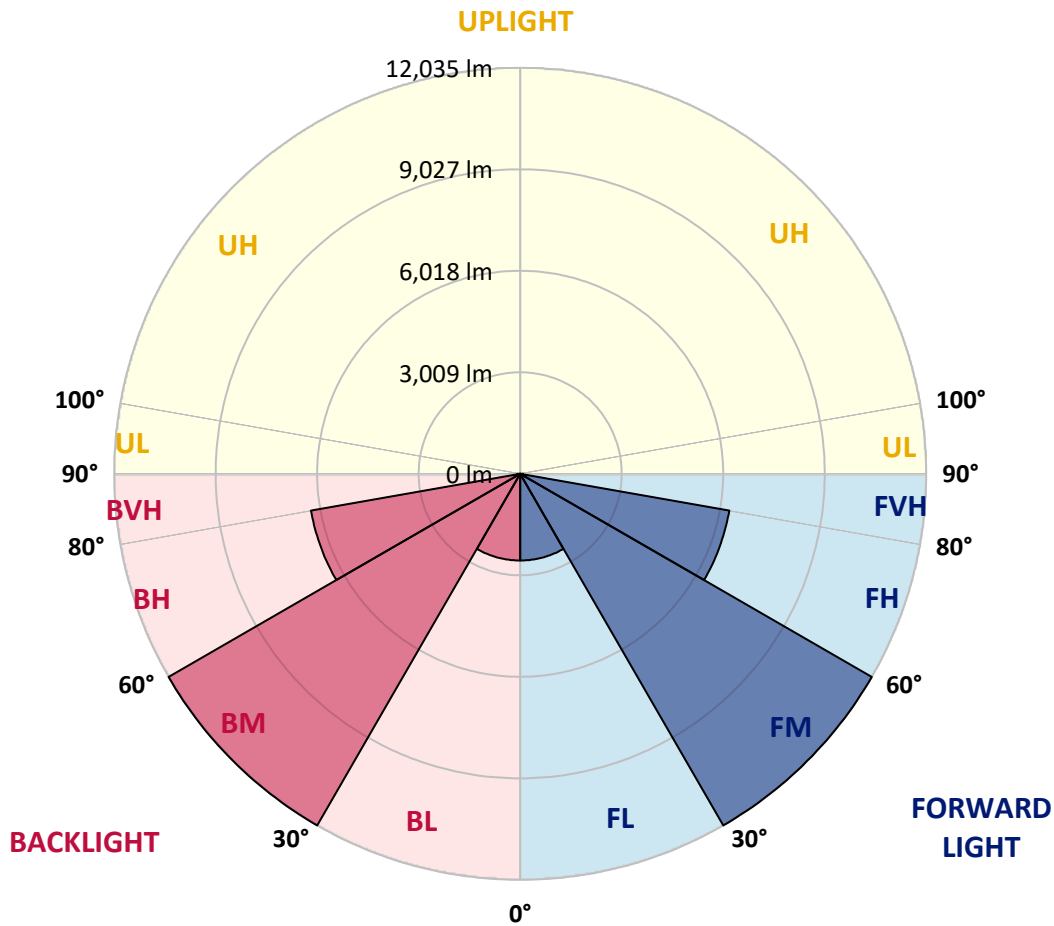
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2568.9	6.1			
FM (30°-60°)	12035.4	28.7			
FH (60°-80°)	6295.2	15.0			G3/7500
FVH (80°-90°)	82.4	0.2			G1/100
BL (0°-30°)	2568.9	6.1	B4/5000		
BM (30°-60°)	12035.4	28.7	B5		
BH (60°-80°)	6295.2	15.0	B5		G3/7500
BVH (80°-90°)	82.4	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°	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1	4994.1
2.5°	5027.8	5011.0	5023.6	5013.1	5004.7	4996.2	5000.5	5015.2	5021.5	5023.6
5°	5095.2	5080.5	5086.8	5086.8	5072.0	5067.8	5069.9	5080.5	5093.1	5093.1
7.5°	5204.7	5189.9	5204.7	5196.3	5183.6	5179.4	5177.3	5185.7	5204.7	5204.7
10°	5337.3	5320.5	5328.9	5324.7	5310.0	5303.6	5301.5	5314.2	5331.0	5328.9
12.5°	5482.6	5463.7	5474.2	5461.5	5457.3	5451.0	5451.0	5448.9	5459.4	5451.0
15°	5644.7	5632.1	5636.3	5627.9	5634.2	5630.0	5613.1	5604.7	5608.9	5596.3
17.5°	5836.3	5806.8	5821.6	5817.4	5817.4	5825.8	5798.4	5787.9	5796.3	5783.7
20°	6057.4	6027.9	6034.2	6025.8	6015.3	6023.7	5990.0	5998.4	6004.8	5996.3
22.5°	6299.5	6261.6	6259.5	6263.7	6240.6	6242.7	6219.5	6240.6	6253.2	6230.0
25°	6548.0	6508.0	6535.3	6524.8	6495.3	6501.6	6484.8	6505.9	6516.4	6486.9
27.5°	6811.1	6783.8	6809.0	6815.4	6779.6	6804.8	6779.6	6798.5	6809.0	6764.8
30°	7118.5	7091.2	7114.3	7131.2	7089.1	7129.1	7108.0	7120.6	7122.7	7070.1
32.5°	7453.3	7411.2	7470.1	7478.6	7432.3	7480.7	7453.3	7470.1	7480.7	7409.1
35°	7861.8	7809.1	7876.5	7866.0	7826.0	7866.0	7840.7	7866.0	7891.2	7804.9
37.5°	8301.8	8247.1	8318.6	8299.7	8261.8	8289.2	8274.4	8291.3	8331.3	8238.6
40°	8786.1	8718.7	8815.5	8781.8	8746.1	8741.8	8750.3	8760.8	8813.4	8710.3
42.5°	9304.0	9232.4	9377.7	9325.1	9274.5	9240.8	9268.2	9289.3	9339.8	9224.0
45°	9895.6	9813.5	10003.0	9939.8	9859.8	9790.4	9834.6	9866.2	9939.8	9800.9
47.5°	10548.3	10455.7	10657.8	10638.9	10508.3	10356.7	10457.8	10548.3	10603.1	10434.6
50°	11186.3	11114.7	11380.0	11403.1	11243.1	11030.5	11171.5	11308.4	11323.1	11102.1
52.5°	11784.2	11712.6	12097.9	12243.2	12100.0	11847.4	11996.9	12135.8	12024.2	11737.9
55°	12262.2	12203.2	12693.8	13068.5	13117.0	12908.5	12997.0	12992.8	12626.4	12186.4
57.5°	12378.0	12369.5	12988.5	13782.3	14287.6	14312.9	14138.1	13691.8	12902.2	12310.6
60°	11851.6	11904.2	12754.8	14155.0	15502.5	16062.5	15306.6	14032.8	12588.5	11767.4
62.5°	10276.7	10415.7	11441.0	13700.2	16483.6	18075.3	16243.6	13514.9	11300.0	10228.3
65°	7364.9	7607.0	8739.7	11691.6	16395.2	19843.9	16108.8	11596.8	8824.0	7588.1
67.5°	3341.4	3587.7	4549.9	8004.9	14251.8	19363.9	14218.1	8089.2	4777.3	3600.3
70°	1210.6	1252.7	1562.2	3204.5	9108.2	15428.8	9497.7	3227.7	1661.2	1334.9
72.5°	732.7	739.0	804.3	1147.5	3164.5	9367.2	3299.2	1185.4	821.1	728.5
75°	465.3	461.1	572.7	701.1	1122.2	3160.3	1176.9	701.1	570.6	520.0
77.5°	334.8	345.3	410.6	524.3	707.4	1071.7	694.8	501.1	410.6	336.9
80°	250.5	256.9	299.0	408.5	496.9	667.4	442.1	370.6	309.5	210.5
82.5°	181.1	181.1	195.8	296.9	303.2	360.0	240.0	261.1	204.2	149.5
85°	107.4	105.3	122.1	176.9	157.9	132.6	109.5	160.0	128.4	92.6
87.5°	37.9	40.0	37.9	50.5	42.1	35.8	33.7	44.2	35.8	31.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4994.1
5023.6
5093.1
5198.4
5324.7
5455.2
5598.4
5794.2
6015.3
6253.2
6520.6
6798.5
7101.7
7457.5
7857.6
8295.5
8743.9
9285.0
9872.5
10491.5
11129.4
11746.3
12201.1
12272.7
11670.5
10165.1
7497.5
3547.7
1318.0
741.1
524.3
343.2
216.9
149.5
90.5
29.5
0.0

OF REPORT)