

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: P950375

Luminaire Tested: **GALN-SB4D-835-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950375  
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-SB4D-835-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

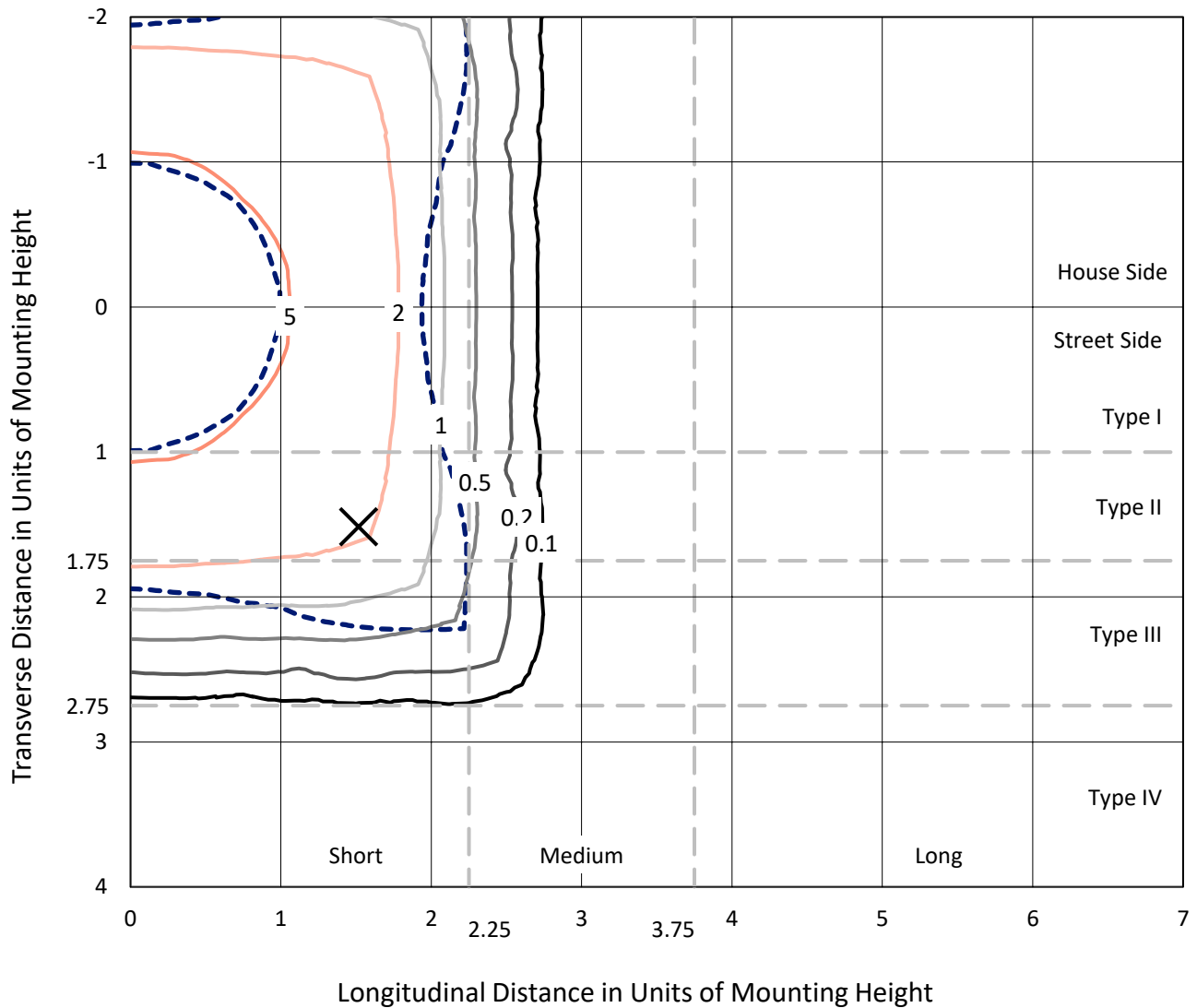
Lumens per Lamp: N/A  
Luminaire Lumens: 39640 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

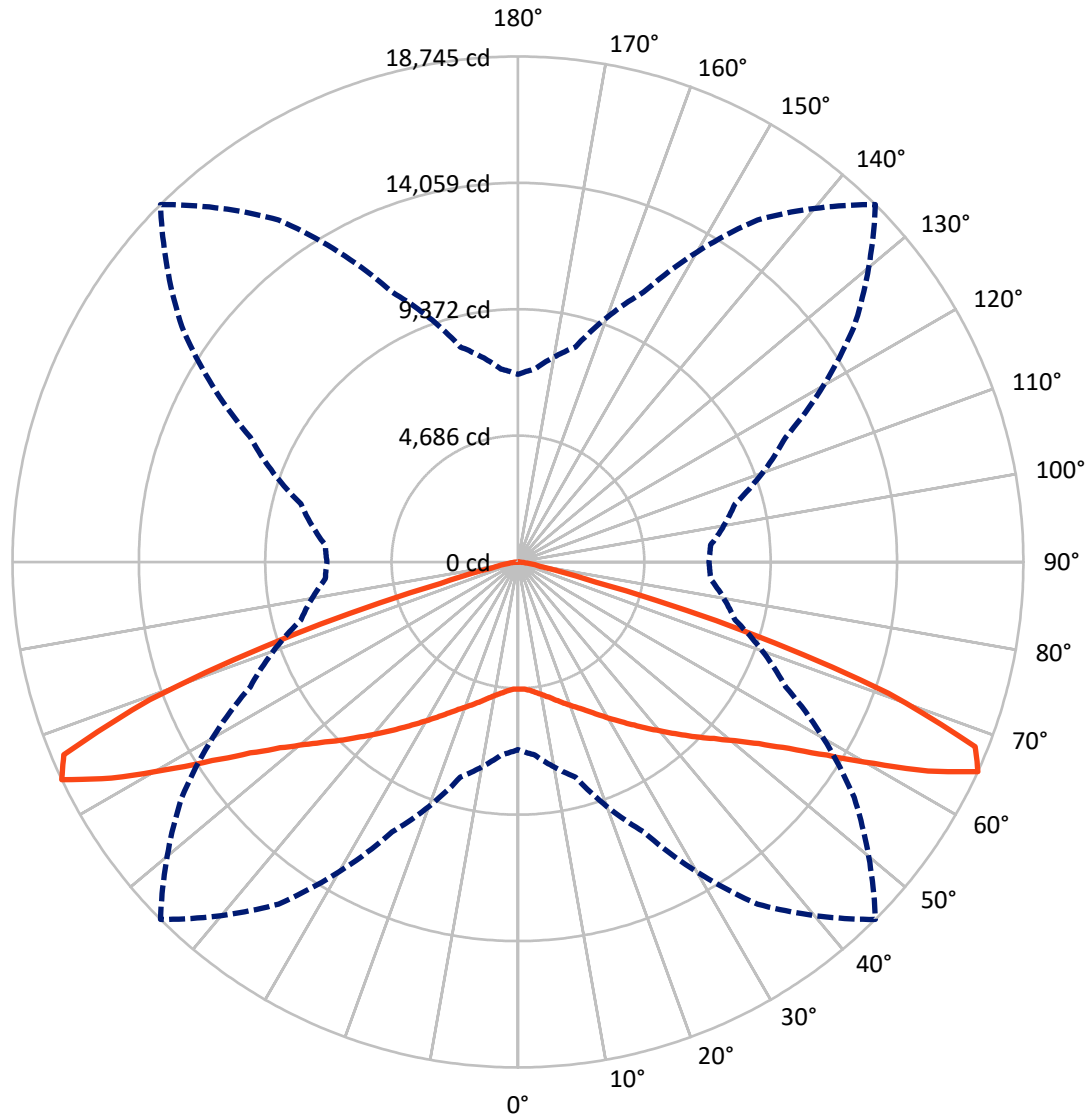
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 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	19820.0	0.0	19820.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19820.0	0.0	19820.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	39640.0	0.0	39640.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	465.6	1.2
10°-20°	1519.2	3.8
20°-30°	2868.4	7.2
30°-40°	4697.0	11.8
40°-50°	7282.7	18.4
50°-60°	10758.1	27.1
60°-70°	10240.7	25.8
70°-80°	1652.5	4.2
80°-90°	155.8	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°	39640.0	100.0
0°-180°	39640.0	100.0

**Coefficient of Utilization**



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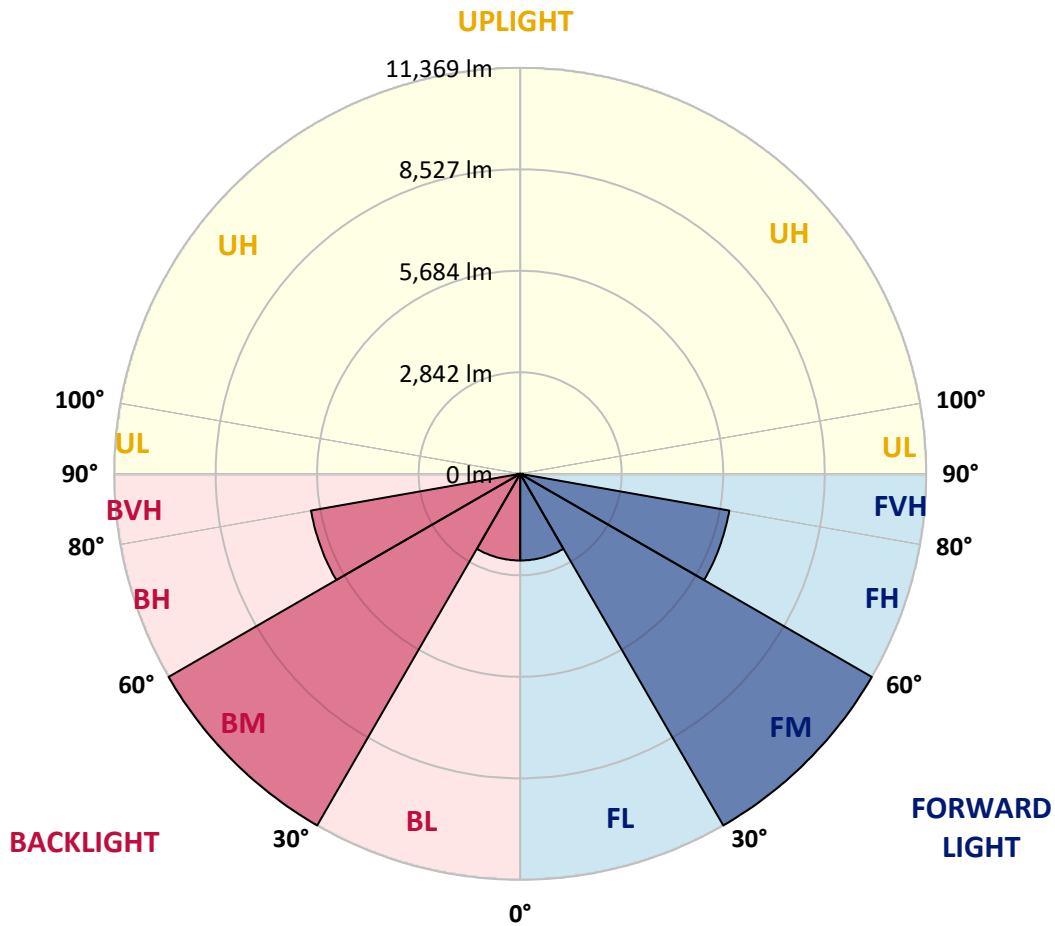
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2426.6	6.1			
FM (30°-60°)	11368.9	28.7			
FH (60°-80°)	5946.6	15.0			G3/7500
FVH (80°-90°)	77.9	0.2			G1/100
BL (0°-30°)	2426.6	6.1	B3/2500		
BM (30°-60°)	11368.9	28.7	B5		
BH (60°-80°)	5946.6	15.0	B5		G3/7500
BVH (80°-90°)	77.9	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°	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6
2.5°	4749.4	4733.5	4745.4	4735.5	4727.5	4719.5	4723.5	4737.4	4743.4	4745.4
5°	4813.0	4799.1	4805.1	4805.1	4791.1	4787.2	4789.2	4799.1	4811.0	4811.0
7.5°	4916.4	4902.5	4916.4	4908.5	4896.6	4892.6	4890.6	4898.5	4916.4	4916.4
10°	5041.7	5025.8	5033.8	5029.8	5015.9	5009.9	5007.9	5019.9	5035.8	5033.8
12.5°	5179.0	5161.1	5171.0	5159.1	5155.1	5149.1	5149.1	5147.1	5157.1	5149.1
15°	5332.1	5320.2	5324.2	5316.2	5322.2	5318.2	5302.3	5294.3	5298.3	5286.4
17.5°	5513.1	5485.3	5499.2	5495.2	5495.2	5503.2	5477.3	5467.4	5475.3	5463.4
20°	5721.9	5694.1	5700.0	5692.1	5682.1	5690.1	5658.3	5666.2	5672.2	5664.2
22.5°	5950.6	5914.8	5912.9	5916.8	5895.0	5896.9	5875.1	5895.0	5906.9	5885.0
25°	6185.3	6147.5	6173.4	6163.5	6135.6	6141.6	6125.7	6145.6	6155.5	6127.7
27.5°	6433.9	6408.1	6431.9	6437.9	6404.1	6428.0	6404.1	6422.0	6431.9	6390.2
30°	6724.3	6698.5	6720.3	6736.2	6696.5	6734.3	6714.4	6726.3	6728.3	6678.6
32.5°	7040.5	7000.8	7056.4	7064.4	7020.6	7066.4	7040.5	7056.4	7066.4	6998.8
35°	7426.4	7376.7	7440.3	7430.4	7392.6	7430.4	7406.5	7430.4	7454.2	7372.7
37.5°	7842.0	7790.3	7858.0	7840.1	7804.3	7830.1	7816.2	7832.1	7869.9	7782.4
40°	8299.5	8235.8	8327.3	8295.5	8261.7	8257.7	8265.7	8275.6	8325.3	8227.9
42.5°	8788.7	8721.1	8858.3	8808.6	8760.9	8729.1	8754.9	8774.8	8822.5	8713.2
45°	9347.6	9270.0	9449.0	9389.4	9313.8	9248.2	9289.9	9319.8	9389.4	9258.1
47.5°	9964.1	9876.6	10067.6	10049.7	9926.4	9783.2	9878.6	9964.1	10015.9	9856.7
50°	10566.8	10499.1	10749.7	10771.6	10620.5	10419.6	10552.8	10682.1	10696.0	10487.2
52.5°	11131.6	11064.0	11427.9	11565.2	11429.9	11191.3	11332.5	11463.7	11358.3	11087.8
55°	11583.1	11527.4	11990.8	12344.8	12390.5	12193.7	12277.2	12273.2	11927.1	11511.5
57.5°	11692.5	11684.5	12269.2	13019.0	13496.3	13520.2	13355.1	12933.5	12187.7	11628.8
60°	11195.2	11245.0	12048.5	13371.1	14643.9	15173.0	14459.0	13255.7	11891.3	11115.7
62.5°	9707.6	9838.8	10807.4	12941.5	15570.7	17074.3	15344.0	12766.4	10674.2	9661.8
65°	6957.0	7185.7	8255.7	11044.1	15487.2	18744.9	15216.7	10954.6	8335.3	7167.8
67.5°	3156.3	3389.0	4297.9	7561.6	13462.5	18291.5	13430.7	7641.2	4512.7	3400.9
70°	1143.6	1183.4	1475.7	3027.0	8603.8	14574.3	8971.7	3048.9	1569.2	1260.9
72.5°	692.1	698.1	759.7	1083.9	2989.2	8848.4	3116.5	1119.7	775.7	688.1
75°	439.5	435.6	541.0	662.3	1060.1	2985.3	1111.8	662.3	539.0	491.2
77.5°	316.2	326.2	387.8	495.2	668.3	1012.3	656.3	473.3	387.8	318.2
80°	236.7	242.6	282.4	385.8	469.4	630.5	417.7	350.0	292.4	198.9
82.5°	171.0	171.0	185.0	280.4	286.4	340.1	226.7	246.6	192.9	141.2
85°	101.4	99.4	115.4	167.1	149.2	125.3	103.4	151.2	121.3	87.5
87.5°	35.8	37.8	35.8	47.7	39.8	33.8	31.8	41.8	33.8	29.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
4717.6
4745.4
4811.0
4910.5
5029.8
5153.1
5288.4
5473.3
5682.1
5906.9
6159.5
6422.0
6708.4
7044.5
7422.4
7836.1
8259.7
8770.8
9325.7
9910.4
10513.1
11095.8
11525.4
11593.0
11024.2
9602.2
7082.3
3351.2
1245.0
700.1
495.2
324.2
204.9
141.2
85.5
27.8
0.0

OF REPORT)