

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: P950249

Luminaire Tested: **GALN-SB4D-735-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P950249  
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-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

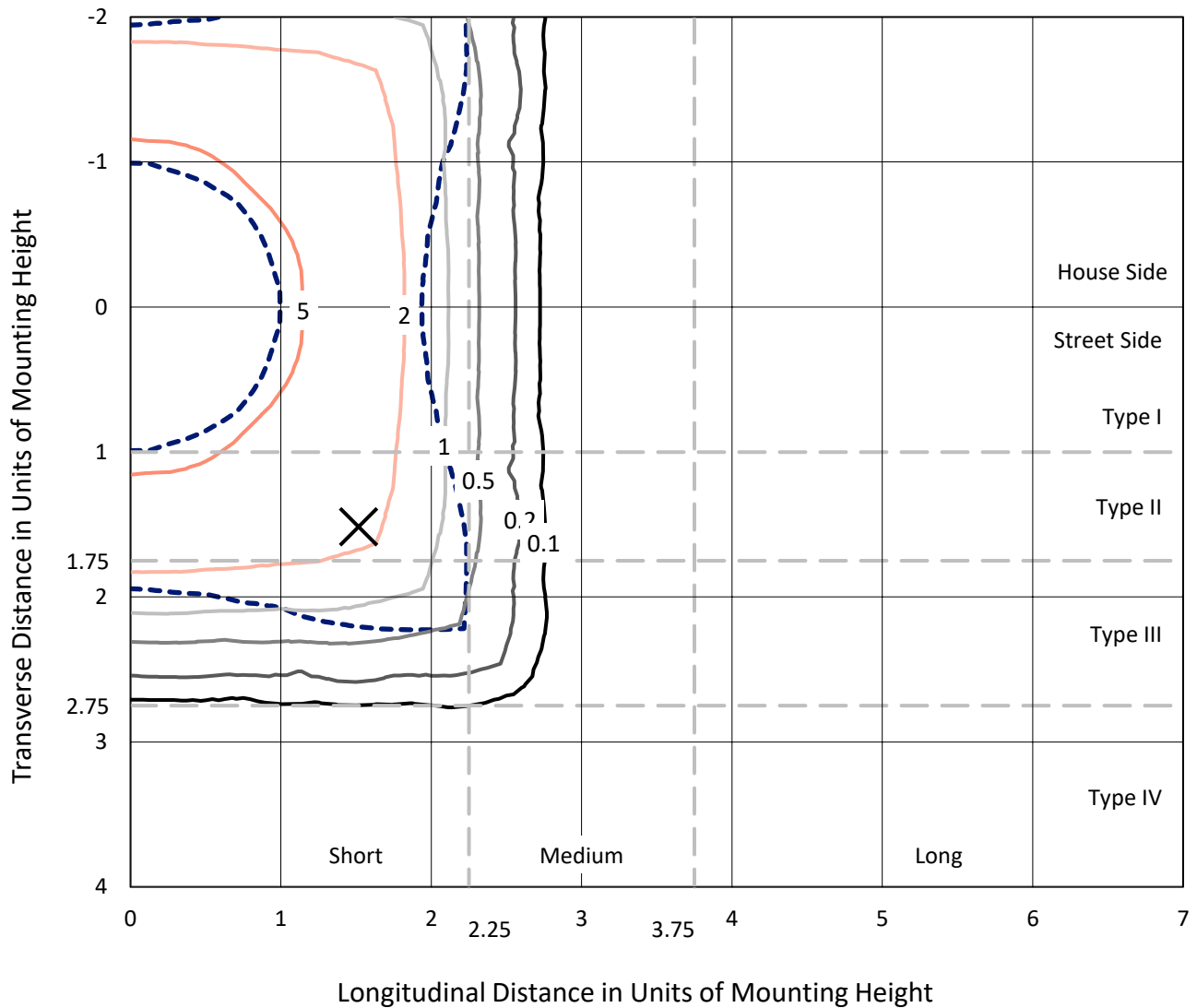
Lumens per Lamp: N/A  
Luminaire Lumens: 42736 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3  
  
Input Watts (W): 293.6  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

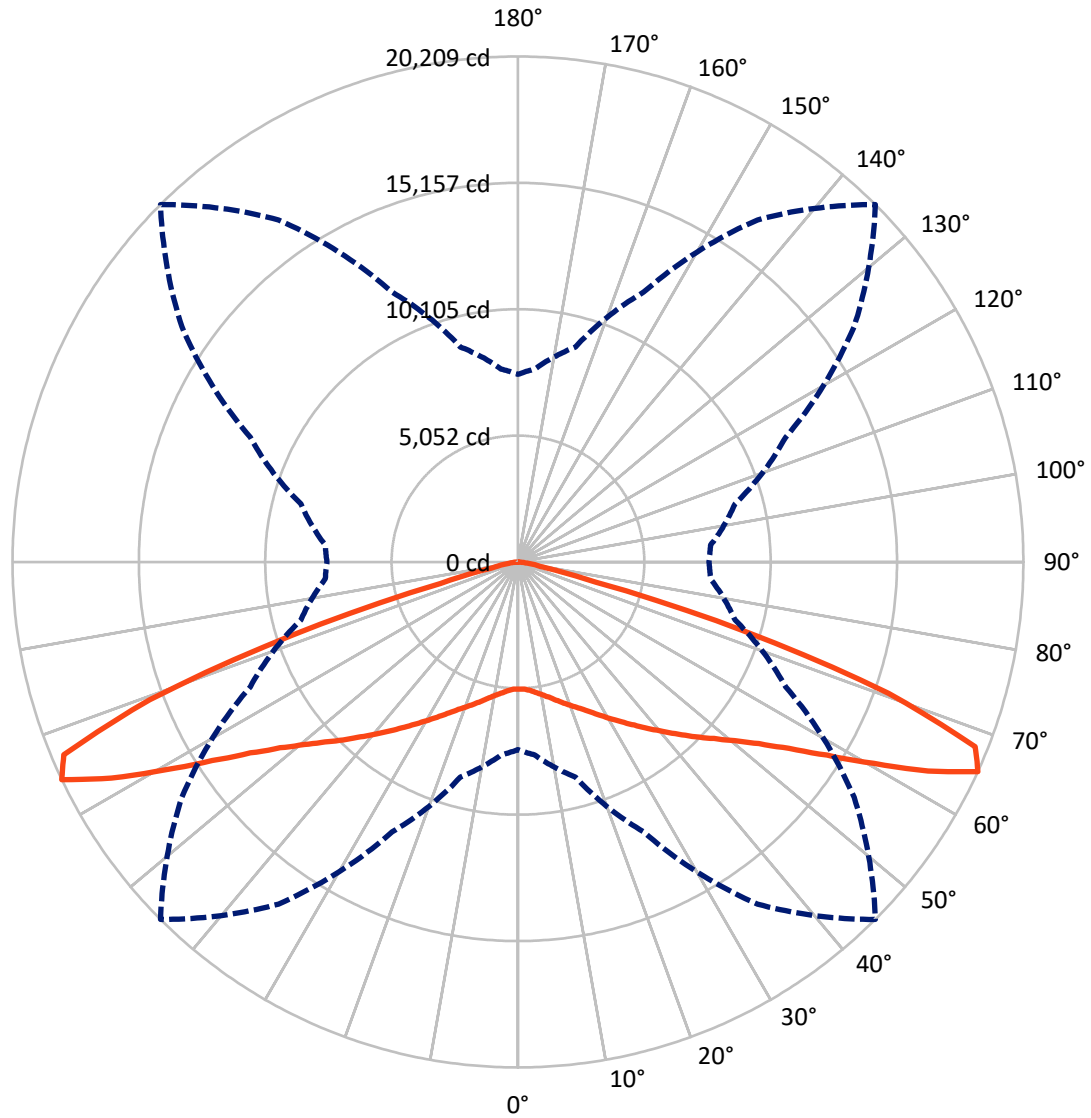
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	21368.0	0.0	21368.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21368.0	0.0	21368.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42736.0	0.0	42736.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	501.9	1.2
10°-20°	1637.9	3.8
20°-30°	3092.5	7.2
30°-40°	5063.8	11.8
40°-50°	7851.5	18.4
50°-60°	11598.3	27.1
60°-70°	11040.5	25.8
70°-80°	1781.5	4.2
80°-90°	167.9	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°	42736.0	100.0
0°-180°	42736.0	100.0



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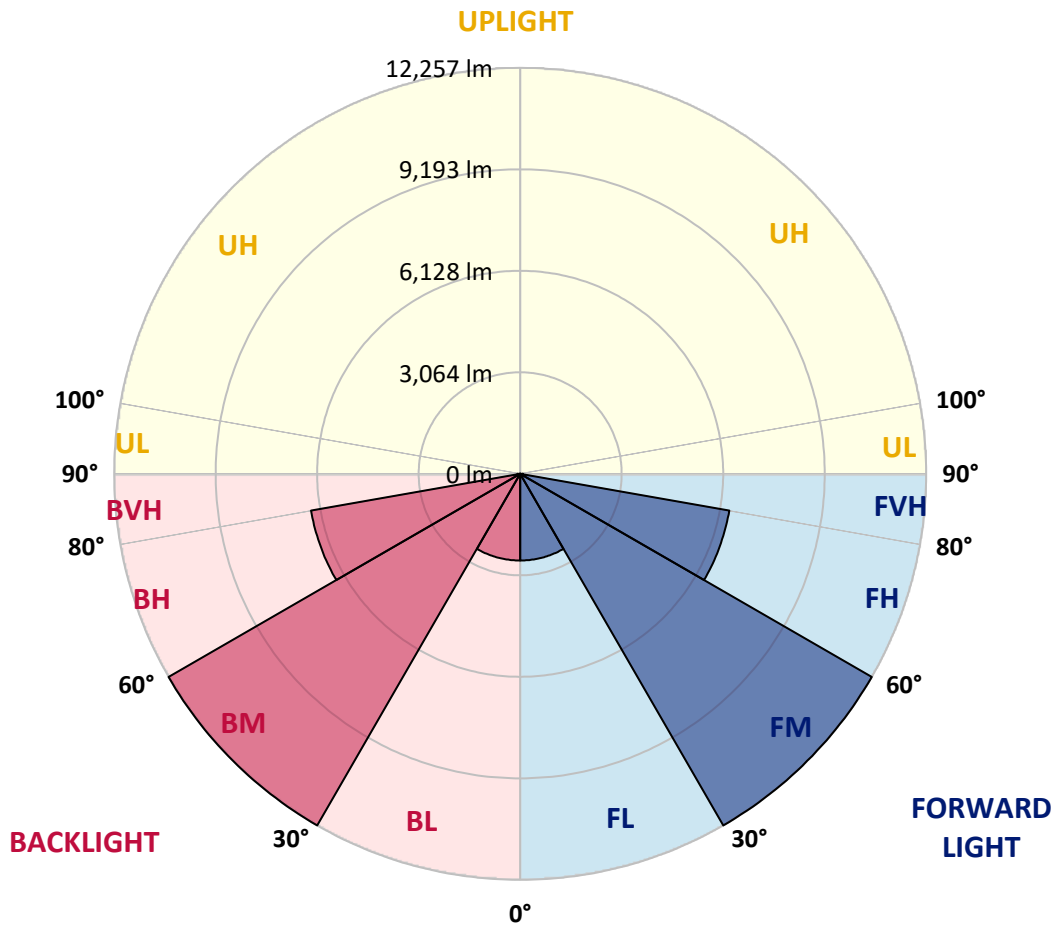
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2616.1	6.1			
FM (30°-60°)	12256.9	28.7			
FH (60°-80°)	6411.0	15.0			G3/7500
FVH (80°-90°)	84.0	0.2			G1/100
BL (0°-30°)	2616.1	6.1	B4/5000		
BM (30°-60°)	12256.9	28.7	B5		
BH (60°-80°)	6411.0	15.0	B5		G3/7500
BVH (80°-90°)	84.0	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°	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0	5086.0
2.5°	5120.3	5103.2	5116.0	5105.3	5096.7	5088.2	5092.4	5107.5	5113.9	5116.0
5°	5188.9	5173.9	5180.4	5180.4	5165.3	5161.1	5163.2	5173.9	5186.8	5186.8
7.5°	5300.4	5285.4	5300.4	5291.9	5279.0	5274.7	5272.6	5281.1	5300.4	5300.4
10°	5435.5	5418.4	5426.9	5422.6	5407.6	5401.2	5399.1	5411.9	5429.1	5426.9
12.5°	5583.5	5564.2	5574.9	5562.0	5557.7	5551.3	5551.3	5549.2	5559.9	5551.3
15°	5748.6	5735.7	5740.0	5731.4	5737.8	5733.6	5716.4	5707.8	5712.1	5699.2
17.5°	5943.7	5913.7	5928.7	5924.4	5924.4	5933.0	5905.1	5894.4	5902.9	5890.1
20°	6168.8	6138.8	6145.2	6136.7	6125.9	6134.5	6100.2	6108.8	6115.2	6106.6
22.5°	6415.4	6376.8	6374.7	6379.0	6355.4	6357.5	6333.9	6355.4	6368.2	6344.6
25°	6668.4	6627.7	6655.6	6644.8	6614.8	6621.2	6604.1	6625.5	6636.3	6606.2
27.5°	6936.4	6908.6	6934.3	6940.7	6904.3	6930.0	6904.3	6923.6	6934.3	6889.3
30°	7249.5	7221.6	7245.2	7262.4	7219.5	7260.2	7238.8	7251.6	7253.8	7200.2
32.5°	7590.4	7547.5	7607.6	7616.2	7569.0	7618.3	7590.4	7607.6	7618.3	7545.4
35°	8006.4	7952.8	8021.4	8010.7	7969.9	8010.7	7985.0	8010.7	8036.4	7948.5
37.5°	8454.5	8398.8	8471.7	8452.4	8413.8	8441.7	8426.7	8443.8	8484.5	8390.2
40°	8947.7	8879.1	8977.7	8943.4	8907.0	8902.7	8911.2	8922.0	8975.6	8870.5
42.5°	9475.2	9402.3	9550.2	9496.6	9445.1	9410.8	9438.7	9460.2	9511.6	9393.7
45°	10077.7	9994.1	10187.0	10122.7	10041.2	9970.5	10015.5	10047.7	10122.7	9981.2
47.5°	10742.4	10648.0	10853.9	10834.6	10701.6	10547.3	10650.2	10742.4	10798.1	10626.6
50°	11392.1	11319.2	11589.3	11612.9	11450.0	11233.4	11377.1	11516.4	11531.4	11306.3
52.5°	12001.0	11928.1	12320.5	12468.4	12322.6	12065.3	12217.6	12359.1	12245.5	11953.8
55°	12487.7	12427.7	12927.3	13309.0	13358.3	13146.0	13236.1	13231.8	12858.7	12410.6
57.5°	12605.7	12597.1	13227.5	14035.8	14550.5	14576.2	14398.2	13943.6	13139.6	12537.1
60°	12069.6	12123.2	12989.5	14415.4	15787.6	16358.0	15588.2	14291.0	12820.1	11983.9
62.5°	10465.8	10607.3	11651.5	13952.2	16786.8	18407.8	16542.4	13763.5	11507.9	10416.5
65°	7500.4	7746.9	8900.5	11906.7	16696.8	20209.0	16405.2	11810.2	8986.3	7727.6
67.5°	3402.8	3653.7	4633.6	8152.2	14514.0	19720.1	14479.7	8238.0	4865.2	3666.6
70°	1232.9	1275.8	1591.0	3263.5	9275.8	15712.6	9672.4	3287.0	1691.8	1359.4
72.5°	746.2	752.6	819.1	1168.6	3222.7	9539.5	3359.9	1207.2	836.2	741.9
75°	473.9	469.6	583.2	714.0	1142.9	3218.4	1198.6	714.0	581.1	529.6
77.5°	340.9	351.6	418.1	533.9	720.4	1091.4	707.6	510.3	418.1	343.1
80°	255.2	261.6	304.5	416.0	506.0	679.7	450.3	377.4	315.2	214.4
82.5°	184.4	184.4	199.4	302.3	308.8	366.7	244.4	265.9	208.0	152.2
85°	109.4	107.2	124.4	180.1	160.8	135.1	111.5	163.0	130.8	94.3
87.5°	38.6	40.7	38.6	51.5	42.9	36.5	34.3	45.0	36.5	32.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
5086.0
5116.0
5186.8
5294.0
5422.6
5555.6
5701.4
5900.8
6125.9
6368.2
6640.5
6923.6
7232.3
7594.7
8002.1
8448.1
8904.8
9455.9
10054.1
10684.5
11334.2
11962.4
12425.6
12498.5
11885.2
10352.1
7635.4
3613.0
1342.3
754.8
533.9
349.5
220.9
152.2
92.2
30.0
0.0

OF REPORT)