

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: P957389

Luminaire Tested: **GALN-SB9D-735-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P957389  
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-SB9D-735-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

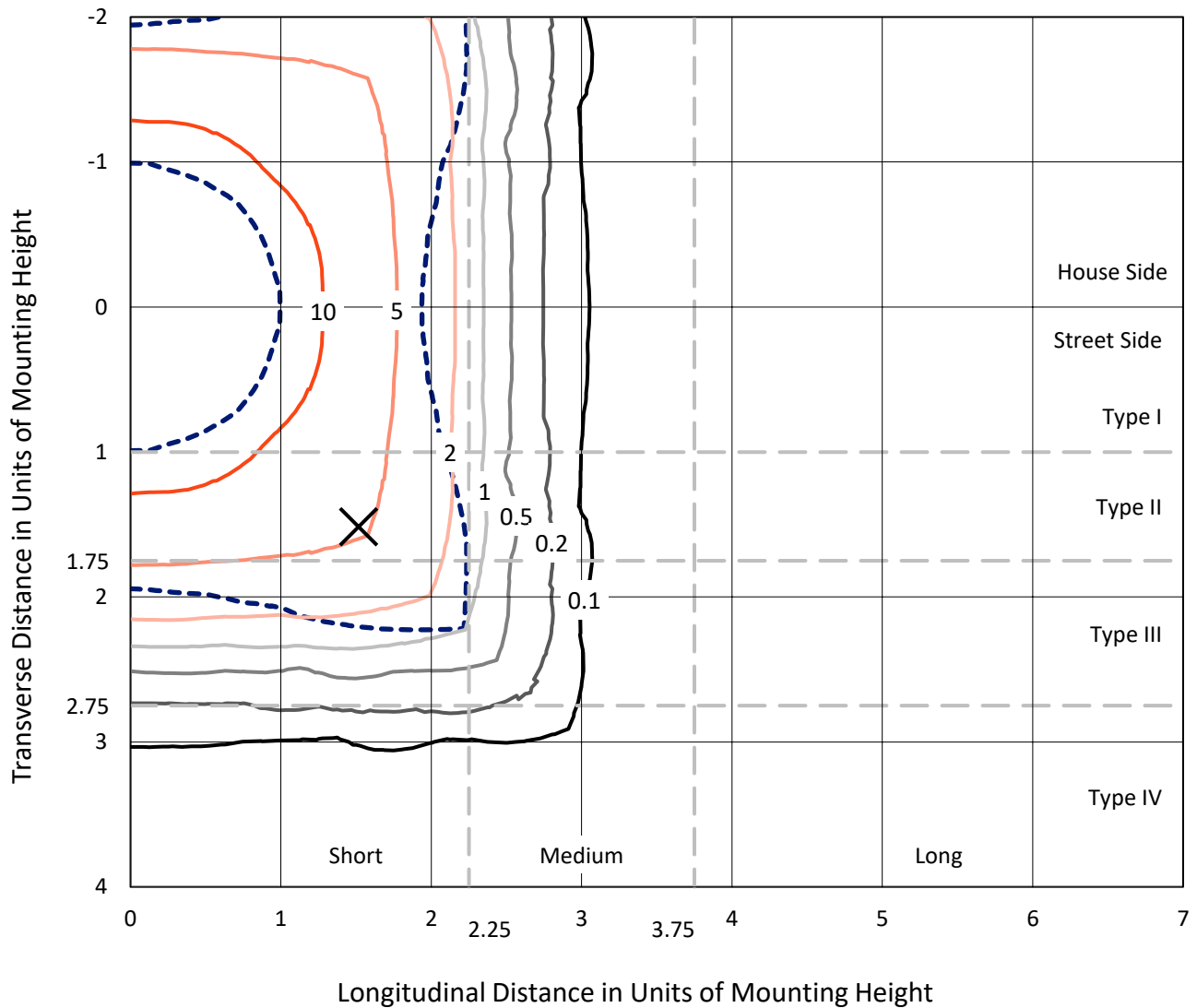
Lumens per Lamp: N/A  
Luminaire Lumens: 97126 lumens  
Efficiency: N/A  
Efficacy: 147.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 658  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

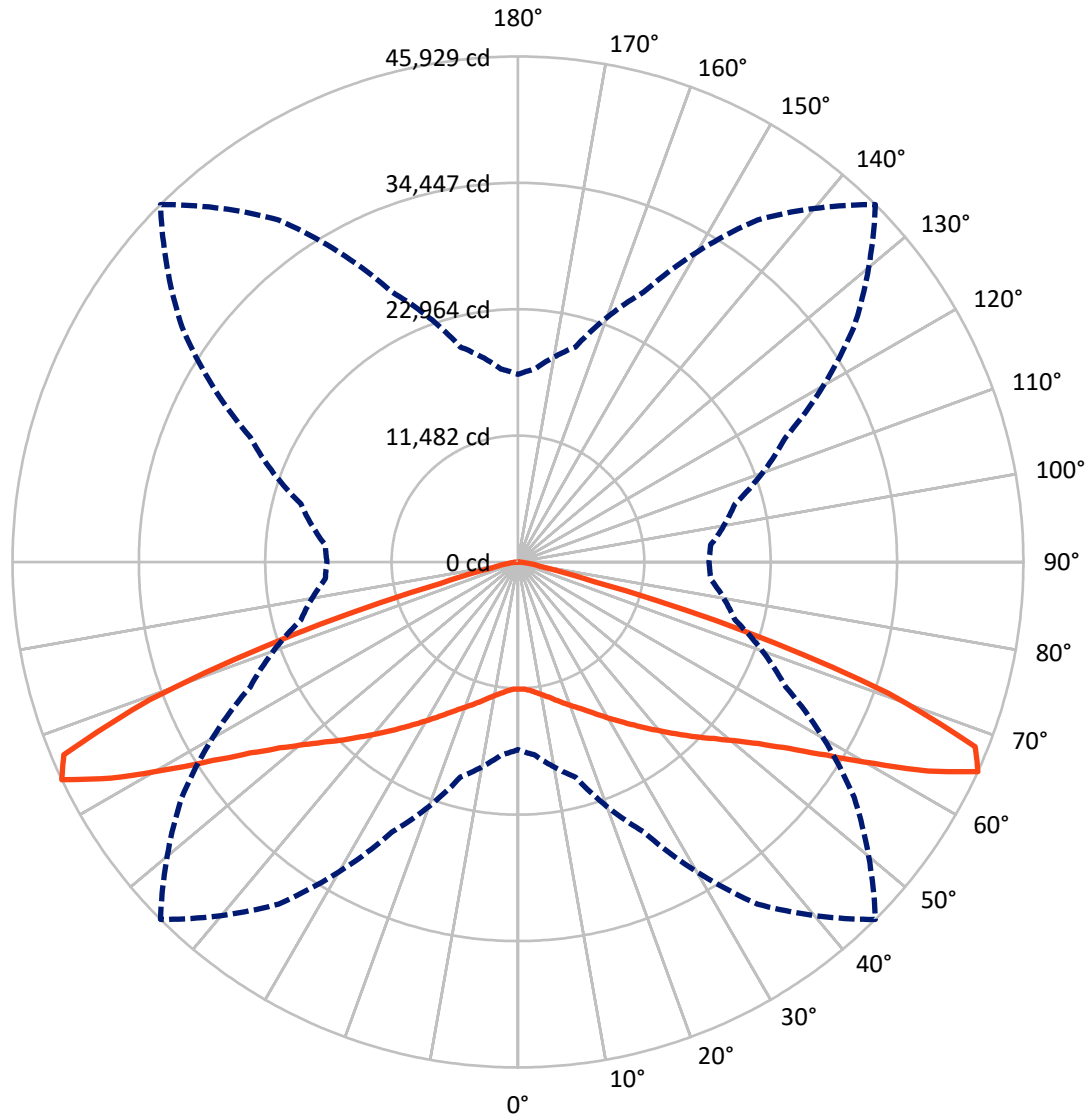
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.9 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	48563.0	0.0	48563.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	48563.0	0.0	48563.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	97126.0	0.0	97126.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1140.8	1.2
10°-20°	3722.4	3.8
20°-30°	7028.3	7.2
30°-40°	11508.6	11.8
40°-50°	17844.1	18.4
50°-60°	26359.5	27.1
60°-70°	25091.8	25.8
70°-80°	4048.9	4.2
80°-90°	381.7	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°	97126.0	100.0
0°-180°	97126.0	100.0



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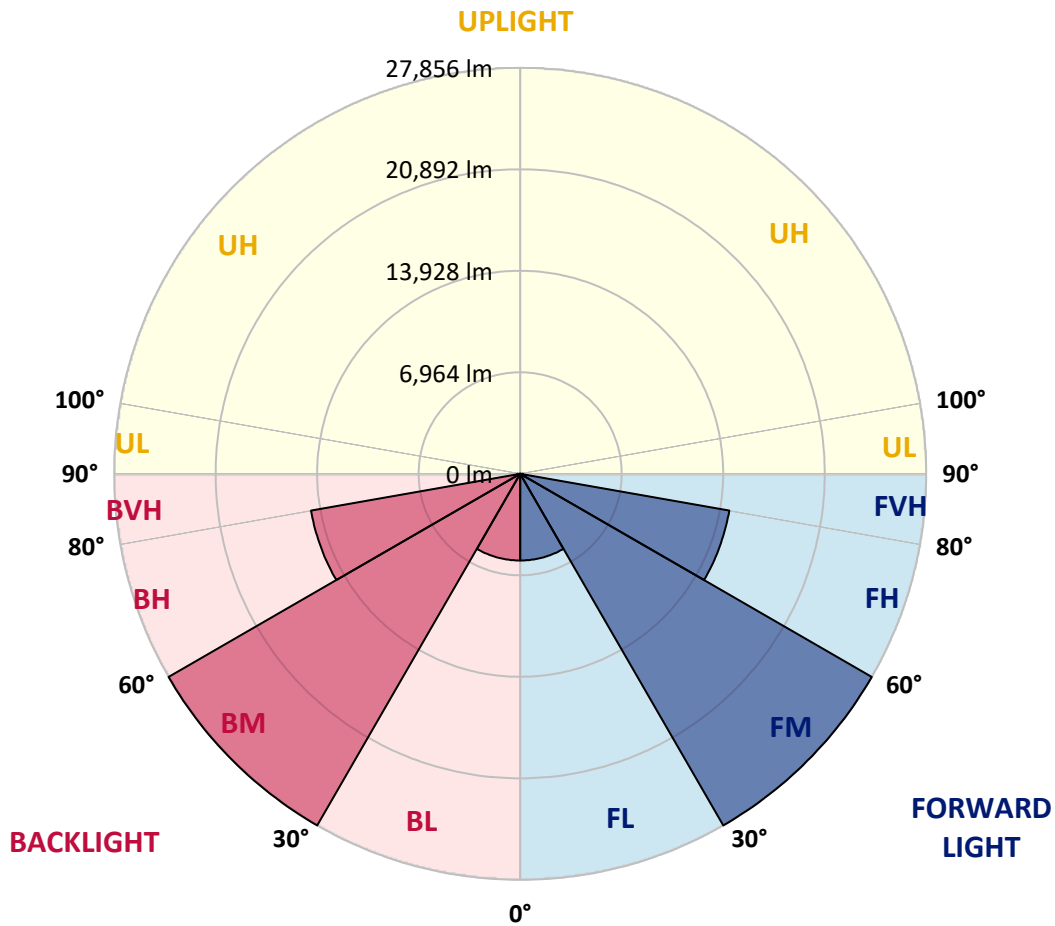
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5945.7	6.1			
FM (30°-60°)	27856.1	28.7			
FH (60°-80°)	14570.4	15.0			G5
FVH (80°-90°)	190.8	0.2			G2/225
BL (0°-30°)	5945.7	6.1	B5		
BM (30°-60°)	27856.1	28.7	B5		
BH (60°-80°)	14570.4	15.0	B5		G5
BVH (80°-90°)	190.8	0.2			G2/225
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°	11559.0	11559.0	11559.0	11559.0	11559.0	11559.0	11559.0	11559.0	11559.0	11559.0
2.5°	11636.9	11598.0	11627.2	11602.8	11583.3	11563.8	11573.6	11607.7	11622.3	11627.2
5°	11792.9	11758.8	11773.4	11773.4	11739.3	11729.5	11734.4	11758.8	11788.0	11788.0
7.5°	12046.3	12012.2	12046.3	12026.8	11997.5	11987.8	11982.9	12002.4	12046.3	12046.3
10°	12353.3	12314.3	12333.8	12324.0	12289.9	12275.3	12270.4	12299.7	12338.7	12333.8
12.5°	12689.5	12645.7	12670.0	12640.8	12631.0	12616.4	12616.4	12611.6	12635.9	12616.4
15°	13064.7	13035.5	13045.3	13025.8	13040.4	13030.6	12991.7	12972.2	12981.9	12952.7
17.5°	13508.2	13440.0	13474.1	13464.3	13464.3	13483.8	13420.5	13396.1	13415.6	13386.4
20°	14019.9	13951.7	13966.3	13946.8	13922.4	13941.9	13863.9	13883.4	13898.0	13878.6
22.5°	14580.3	14492.6	14487.7	14497.4	14443.8	14448.7	14395.1	14443.8	14473.1	14419.5
25°	15155.3	15062.7	15126.1	15101.7	15033.5	15048.1	15009.1	15057.8	15082.2	15014.0
27.5°	15764.4	15701.1	15759.6	15774.2	15691.3	15749.8	15691.3	15735.2	15759.6	15657.2
30°	16475.9	16412.6	16466.2	16505.1	16407.7	16500.3	16451.5	16480.8	16485.7	16363.8
32.5°	17250.7	17153.3	17289.7	17309.2	17202.0	17314.1	17250.7	17289.7	17314.1	17148.4
35°	18196.1	18074.3	18230.2	18205.9	18113.3	18205.9	18147.4	18205.9	18264.3	18064.5
37.5°	19214.6	19087.9	19253.6	19209.7	19122.0	19185.3	19151.2	19190.2	19282.8	19068.4
40°	20335.4	20179.5	20403.6	20325.7	20242.8	20233.1	20252.6	20276.9	20398.7	20160.0
42.5°	21534.2	21368.5	21704.7	21582.9	21466.0	21388.0	21451.3	21500.1	21617.0	21349.0
45°	22903.5	22713.5	23152.0	23005.8	22820.7	22659.9	22762.2	22835.3	23005.8	22684.2
47.5°	24414.2	24199.8	24667.6	24623.7	24321.6	23970.7	24204.6	24414.2	24540.9	24151.0
50°	25890.7	25725.0	26339.0	26392.6	26022.3	25530.1	25856.6	26173.4	26207.5	25695.8
52.5°	27274.7	27109.0	28000.8	28337.0	28005.6	27420.9	27766.9	28088.5	27830.2	27167.5
55°	28380.9	28244.4	29379.8	30247.3	30359.3	29876.9	30081.6	30071.8	29223.9	28205.4
57.5°	28648.9	28629.4	30062.1	31899.2	33068.8	33127.3	32722.8	31689.7	29862.3	28492.9
60°	27430.6	27552.4	29521.2	32761.8	35880.5	37176.8	35427.4	32479.1	29136.2	27235.7
62.5°	23785.5	24107.2	26480.4	31709.2	38151.4	41835.5	37595.9	31280.4	26153.9	23673.5
65°	17046.1	17606.5	20228.2	27060.3	37946.7	45928.9	37284.0	26841.0	20423.1	17562.6
67.5°	7733.6	8303.7	10530.7	18527.5	32985.9	44817.8	32908.0	18722.4	11057.0	8333.0
70°	2802.0	2899.5	3615.8	7416.8	21081.0	35710.0	21982.5	7470.4	3844.9	3089.5
72.5°	1695.8	1710.5	1861.5	2655.8	7324.3	21680.4	7636.1	2743.5	1900.5	1686.1
75°	1077.0	1067.2	1325.5	1622.7	2597.4	7314.5	2724.1	1622.7	1320.6	1203.7
77.5°	774.8	799.2	950.3	1213.4	1637.4	2480.4	1608.1	1159.8	950.3	779.7
80°	579.9	594.5	692.0	945.4	1150.0	1544.8	1023.3	857.7	716.3	487.3
82.5°	419.1	419.1	453.2	687.1	701.7	833.3	555.5	604.3	472.7	346.0
85°	248.5	243.7	282.6	409.3	365.5	307.0	253.4	370.4	297.3	214.4
87.5°	87.7	92.6	87.7	117.0	97.5	82.8	78.0	102.3	82.8	73.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
11559.0
11627.2
11788.0
12031.7
12324.0
12626.2
12957.5
13410.7
13922.4
14473.1
15092.0
15735.2
16436.9
17260.5
18186.4
19200.0
20237.9
21490.3
22849.9
24282.6
25759.1
27187.0
28239.5
28405.2
27011.5
23527.3
17353.1
8211.2
3050.6
1715.3
1213.4
794.3
501.9
346.0
209.5
68.2
0.0

OF REPORT)