

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: P956822

Luminaire Tested: **GALN-SB9B-840-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956822  
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-SB9B-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 80 CRI, 4000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

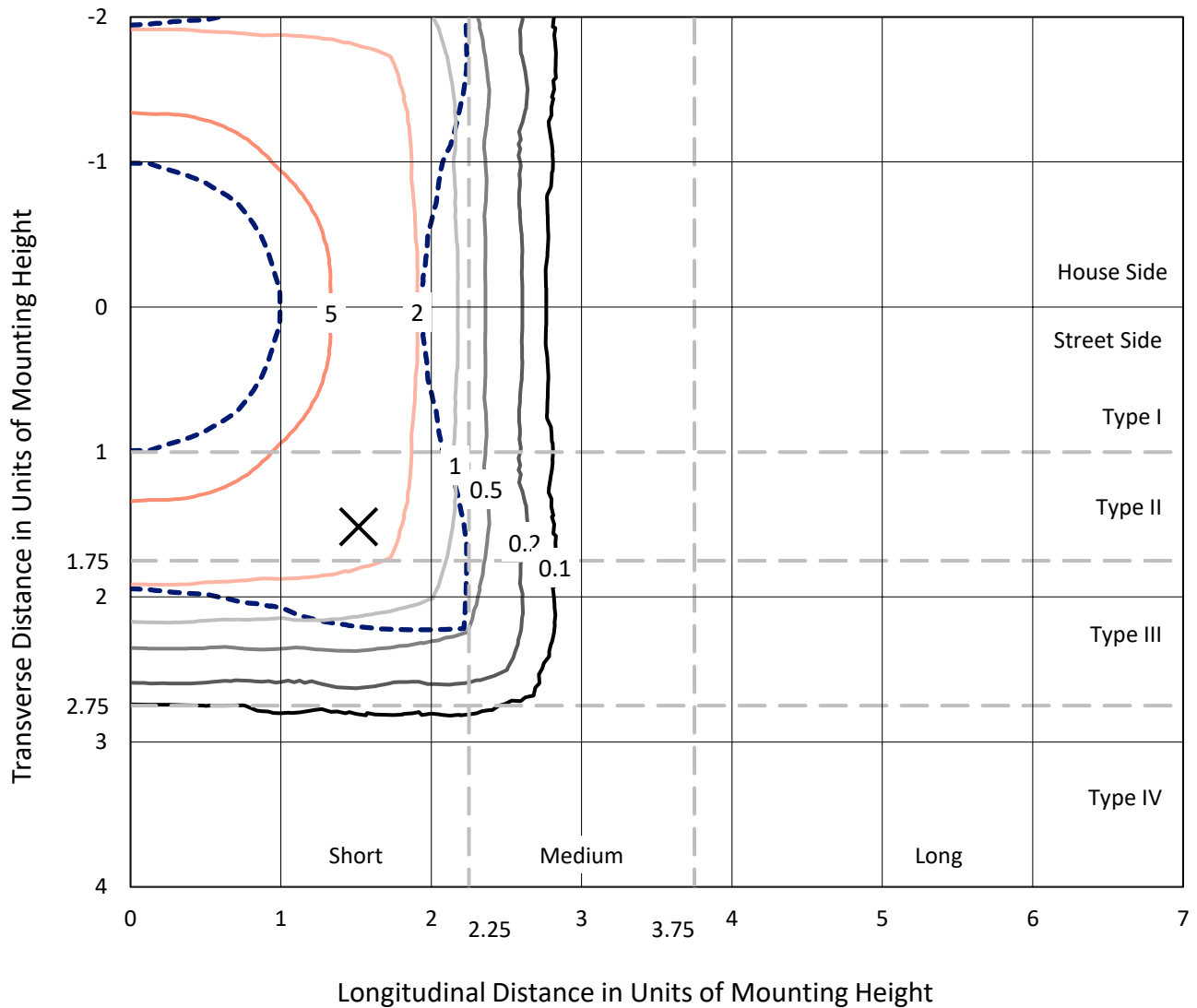
Lumens per Lamp: N/A  
Luminaire Lumens: 51409 lumens  
Efficiency: N/A  
Efficacy: 156.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 329.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

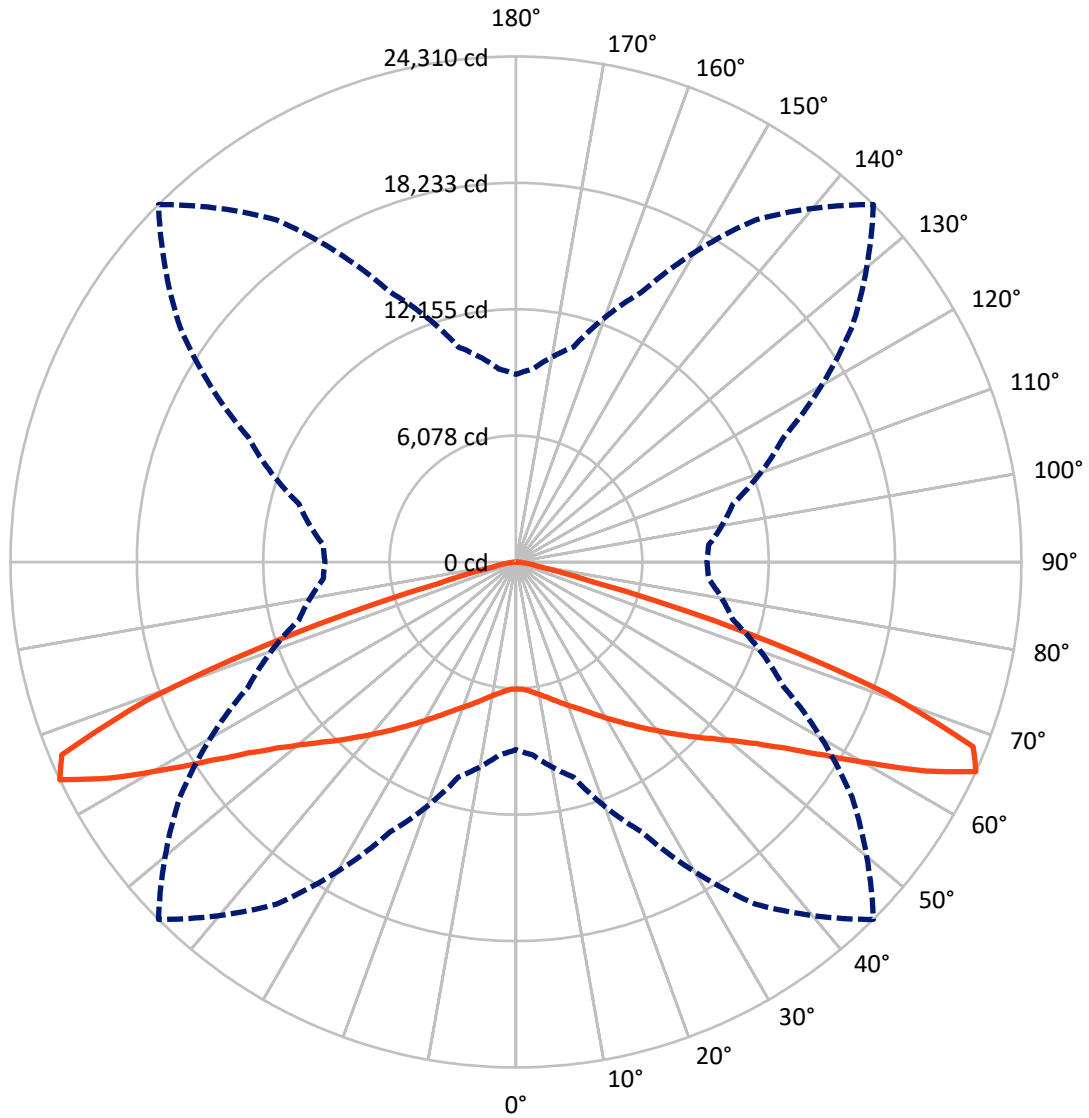
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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	25704.5	0.0	25704.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	25704.5	0.0	25704.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	51409.0	0.0	51409.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	603.8	1.2
10°-20°	1970.3	3.8
20°-30°	3720.1	7.2
30°-40°	6091.5	11.8
40°-50°	9444.9	18.4
50°-60°	13952.1	27.1
60°-70°	13281.1	25.8
70°-80°	2143.1	4.2
80°-90°	202.0	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°	51409.0	100.0
0°-180°	51409.0	100.0

**Coefficient of Utilization**



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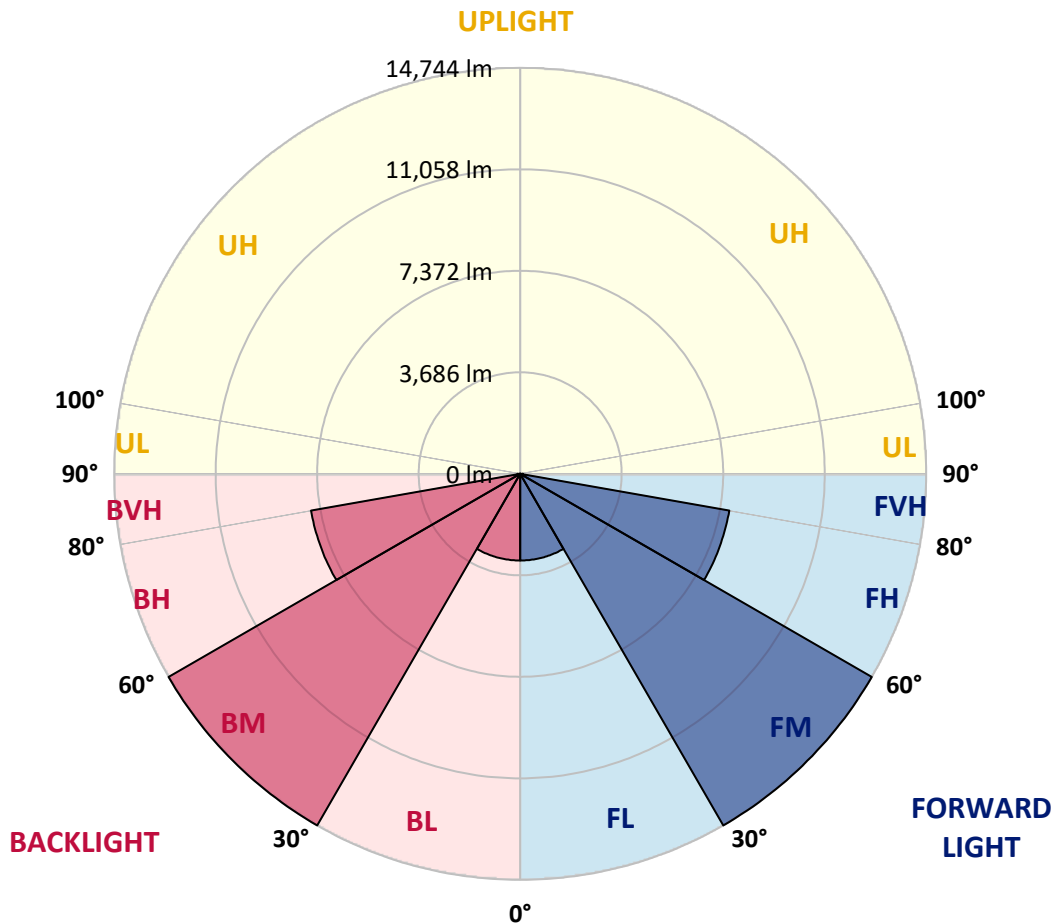
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3147.1	6.1			
FM (30°-60°)	14744.3	28.7			
FH (60°-80°)	7712.1	15.0			G4/12000
FVH (80°-90°)	101.0	0.2			G2/225
BL (0°-30°)	3147.1	6.1	B4/5000		
BM (30°-60°)	14744.3	28.7	B5		
BH (60°-80°)	7712.1	15.0	B5		G4/12000
BVH (80°-90°)	101.0	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-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6118.2	6118.2	6118.2	6118.2	6118.2	6118.2	6118.2	6118.2	6118.2	6118.2
2.5°	6159.5	6138.8	6154.3	6141.4	6131.1	6120.8	6125.9	6144.0	6151.7	6154.3
5°	6242.0	6223.9	6231.7	6231.7	6213.6	6208.5	6211.0	6223.9	6239.4	6239.4
7.5°	6376.1	6358.1	6376.1	6365.8	6350.3	6345.2	6342.6	6352.9	6376.1	6376.1
10°	6538.6	6518.0	6528.3	6523.1	6505.1	6497.3	6494.8	6510.2	6530.9	6528.3
12.5°	6716.6	6693.4	6706.3	6690.8	6685.6	6677.9	6677.9	6675.3	6688.2	6677.9
15°	6915.2	6899.7	6904.9	6894.6	6902.3	6897.1	6876.5	6866.2	6871.4	6855.9
17.5°	7149.9	7113.8	7131.9	7126.7	7126.7	7137.0	7103.5	7090.6	7100.9	7085.4
20°	7420.7	7384.6	7392.4	7382.1	7369.2	7379.5	7338.2	7348.5	7356.3	7345.9
22.5°	7717.4	7670.9	7668.4	7673.5	7645.2	7647.7	7619.4	7645.2	7660.6	7632.3
25°	8021.7	7972.7	8006.3	7993.4	7957.3	7965.0	7944.4	7970.1	7983.0	7946.9
27.5°	8344.2	8310.6	8341.6	8349.3	8305.5	8336.4	8305.5	8328.7	8341.6	8287.4
30°	8720.7	8687.2	8715.6	8736.2	8684.6	8733.6	8707.8	8723.3	8725.9	8661.4
32.5°	9130.8	9079.3	9151.5	9161.8	9105.1	9164.4	9130.8	9151.5	9164.4	9076.7
35°	9631.2	9566.8	9649.3	9636.4	9587.4	9636.4	9605.4	9636.4	9667.4	9561.6
37.5°	10170.3	10103.3	10191.0	10167.7	10121.3	10154.8	10136.8	10157.4	10206.4	10092.9
40°	10763.6	10681.0	10799.7	10758.4	10714.6	10709.4	10719.7	10732.6	10797.1	10670.7
42.5°	11398.1	11310.4	11488.4	11423.9	11362.0	11320.7	11354.2	11380.0	11441.9	11300.1
45°	12122.9	12022.3	12254.4	12177.0	12079.0	11993.9	12048.1	12086.8	12177.0	12006.8
47.5°	12922.5	12809.0	13056.6	13033.4	12873.5	12687.8	12811.6	12922.5	12989.5	12783.2
50°	13704.0	13616.3	13941.3	13969.7	13773.7	13513.1	13686.0	13853.6	13871.7	13600.8
52.5°	14436.5	14348.8	14820.9	14998.8	14823.4	14513.9	14697.1	14867.3	14730.6	14379.8
55°	15022.1	14949.8	15550.8	16009.9	16069.3	15813.9	15922.2	15917.1	15468.3	14929.2
57.5°	15163.9	15153.6	15911.9	16884.3	17503.4	17534.3	17320.2	16773.4	15806.2	15081.4
60°	14519.1	14583.6	15625.6	17340.9	18991.7	19677.8	18751.8	17191.3	15421.9	14415.9
62.5°	12589.7	12760.0	14016.1	16783.7	20193.6	22143.6	19899.6	16556.8	13843.3	12530.4
65°	9022.5	9319.1	10706.8	14323.1	20085.3	24310.2	19734.5	14207.0	10810.0	9295.9
67.5°	4093.4	4395.2	5573.9	9806.6	17459.5	23722.2	17418.3	9909.8	5852.5	4410.7
70°	1483.1	1534.7	1913.9	3925.7	11158.2	18901.4	11635.4	3954.1	2035.1	1635.3
72.5°	897.6	905.3	985.3	1405.7	3876.7	11475.5	4041.8	1452.2	1005.9	892.5
75°	570.0	564.9	701.6	858.9	1374.8	3871.6	1441.8	858.9	699.0	637.1
77.5°	410.1	423.0	503.0	642.3	866.7	1312.9	851.2	613.9	503.0	412.7
80°	306.9	314.7	366.3	500.4	608.7	817.6	541.7	454.0	379.2	257.9
82.5°	221.8	221.8	239.9	363.7	371.4	441.1	294.0	319.8	250.2	183.1
85°	131.5	129.0	149.6	216.7	193.5	162.5	134.1	196.0	157.3	113.5
87.5°	46.4	49.0	46.4	61.9	51.6	43.8	41.3	54.2	43.8	38.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
6118.2
6154.3
6239.4
6368.4
6523.1
6683.1
6858.5
7098.3
7369.2
7660.6
7988.2
8328.7
8700.1
9136.0
9626.1
10162.6
10712.0
11374.9
12094.5
12852.8
13634.4
14390.1
14947.3
15034.9
14297.3
12453.0
9185.0
4346.2
1614.7
907.9
642.3
420.4
265.7
183.1
110.9
36.1
0.0

OF REPORT)