

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: P956108

Luminaire Tested: **GALN-SB8D-840-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P956108  
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-SB8D-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 80 CRI, 4000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

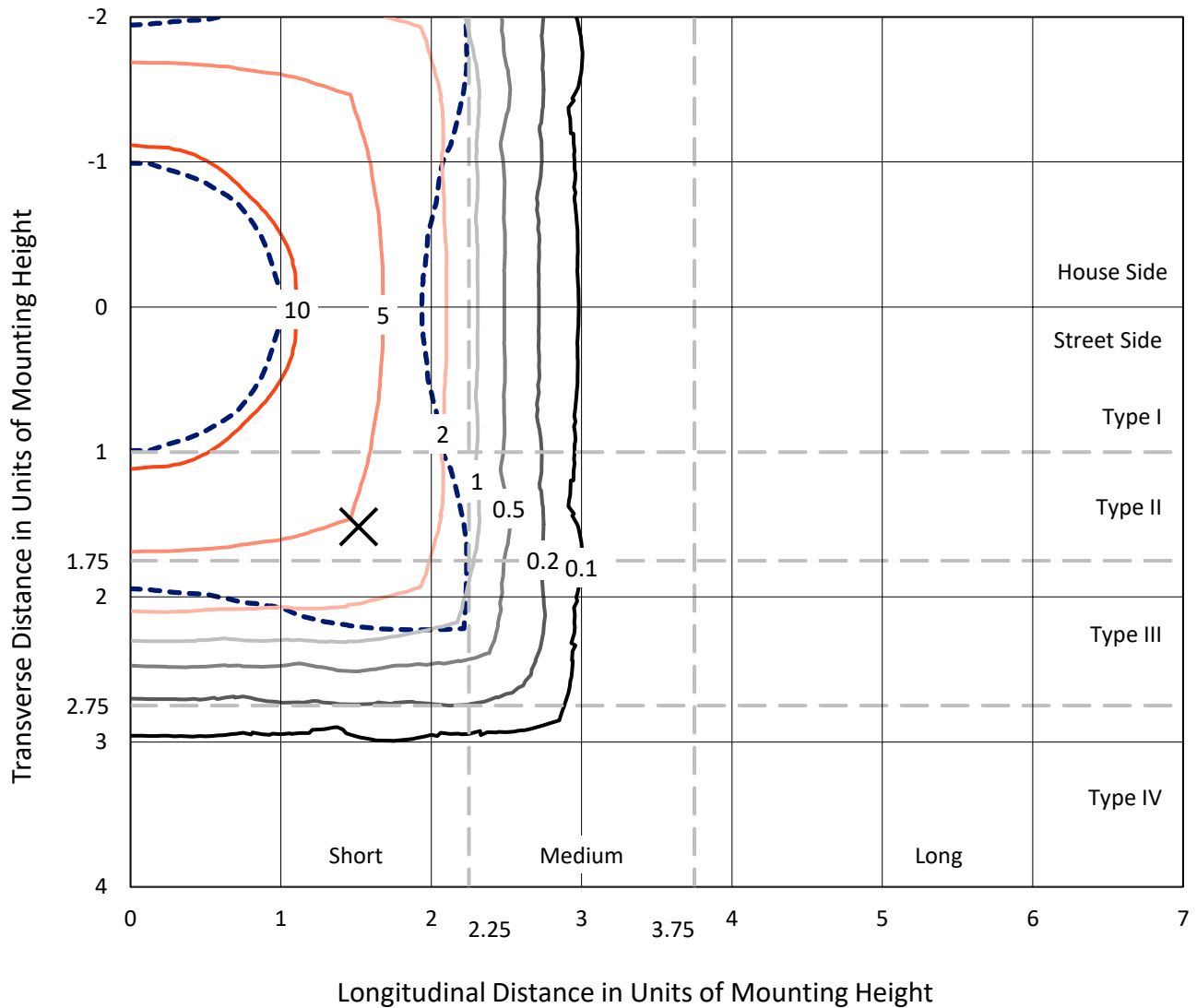
Lumens per Lamp: N/A  
Luminaire Lumens: 82477 lumens  
Efficiency: N/A  
Efficacy: 141.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 584.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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



REPORT NUMBER: P956108  
 CATALOG NUMBER: GALN-SB8D-840-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

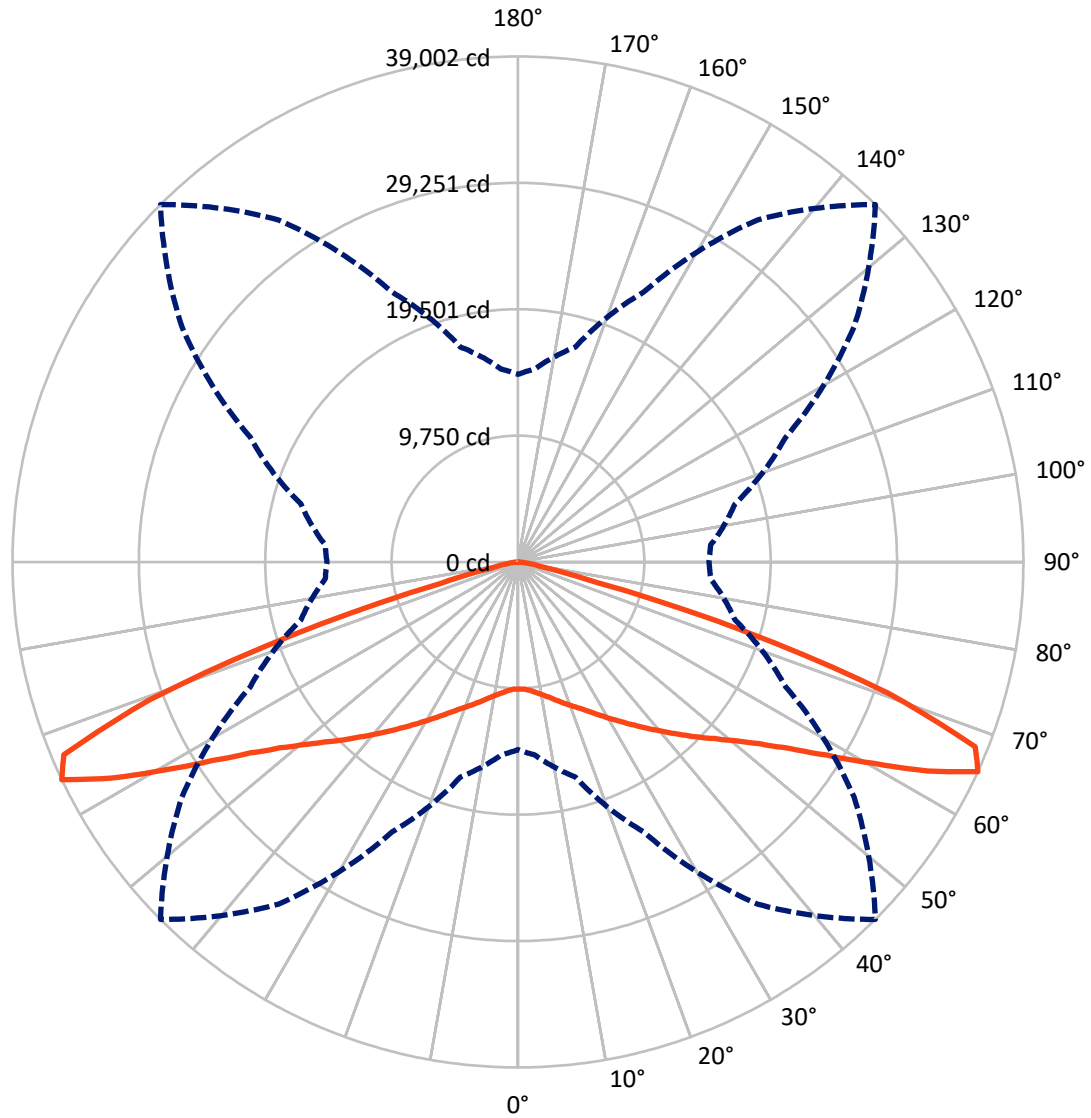
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type V - Short - N/A

REPORT NUMBER: P956108  
CATALOG NUMBER: GALN-SB8D-840-U-5NQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P956108

CATALOG NUMBER: GALN-SB8D-840-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	41238.5	0.0	41238.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	41238.5	0.0	41238.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	82477.0	0.0	82477.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	968.7	1.2
10°-20°	3161.0	3.8
20°-30°	5968.2	7.2
30°-40°	9772.8	11.8
40°-50°	15152.8	18.4
50°-60°	22383.8	27.1
60°-70°	21307.3	25.8
70°-80°	3438.2	4.2
80°-90°	324.1	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°	82477.0	100.0
0°-180°	82477.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P956108

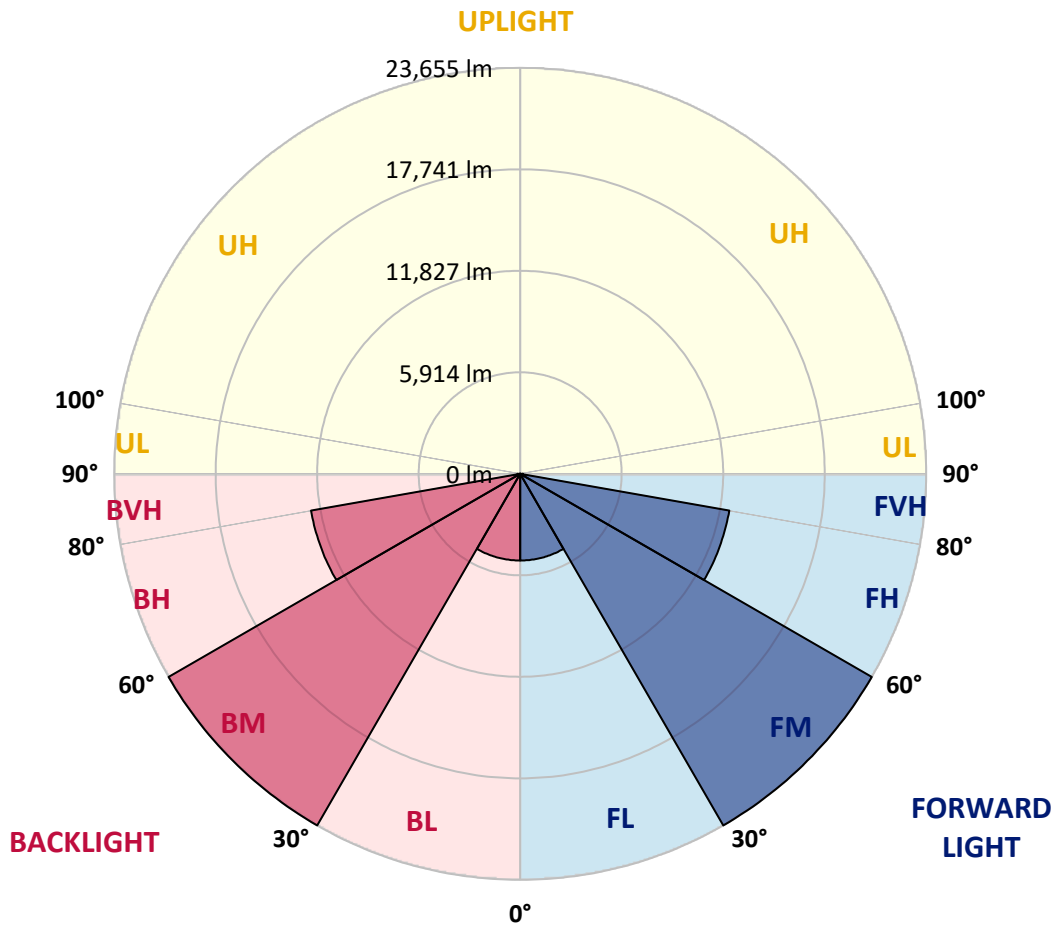
CATALOG NUMBER: GALN-SB8D-840-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5048.9	6.1			
FM (30°-60°)	23654.7	28.7			
FH (60°-80°)	12372.8	15.0			G5
FVH (80°-90°)	162.0	0.2			G2/225
BL (0°-30°)	5048.9	6.1	B5		
BM (30°-60°)	23654.7	28.7	B5		
BH (60°-80°)	12372.8	15.0	B5		G5
BVH (80°-90°)	162.0	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-G5**

Type V Short



REPORT NUMBER: P956108  
 CATALOG NUMBER: GALN-SB8D-840-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9815.6	9815.6	9815.6	9815.6	9815.6	9815.6	9815.6	9815.6	9815.6	9815.6
2.5°	9881.8	9848.7	9873.5	9852.8	9836.3	9819.7	9828.0	9857.0	9869.4	9873.5
5°	10014.2	9985.3	9997.7	9997.7	9968.7	9960.4	9964.6	9985.3	10010.1	10010.1
7.5°	10229.4	10200.4	10229.4	10212.8	10188.0	10179.7	10175.6	10192.2	10229.4	10229.4
10°	10490.1	10457.0	10473.5	10465.3	10436.3	10423.9	10419.8	10444.6	10477.7	10473.5
12.5°	10775.6	10738.4	10759.1	10734.2	10726.0	10713.6	10713.6	10709.4	10730.1	10713.6
15°	11094.3	11069.4	11077.7	11061.2	11073.6	11065.3	11032.2	11015.6	11023.9	10999.1
17.5°	11470.8	11412.9	11441.9	11433.6	11433.6	11450.1	11396.3	11375.7	11392.2	11367.4
20°	11905.3	11847.4	11859.8	11843.3	11822.6	11839.1	11772.9	11789.5	11801.9	11785.3
22.5°	12381.2	12306.7	12302.6	12310.9	12265.3	12269.5	12224.0	12265.3	12290.2	12244.7
25°	12869.5	12790.9	12844.7	12824.0	12766.1	12778.5	12745.4	12786.7	12807.4	12749.5
27.5°	13386.8	13333.0	13382.6	13395.0	13324.7	13374.4	13324.7	13361.9	13382.6	13295.7
30°	13990.9	13937.1	13982.7	14015.8	13933.0	14011.6	13970.2	13995.1	13999.2	13895.8
32.5°	14648.9	14566.1	14682.0	14698.6	14607.5	14702.7	14648.9	14682.0	14702.7	14562.0
35°	15451.7	15348.2	15480.7	15460.0	15381.3	15460.0	15410.3	15460.0	15509.6	15340.0
37.5°	16316.6	16209.0	16349.7	16312.4	16237.9	16291.7	16262.8	16295.9	16374.5	16192.4
40°	17268.3	17135.9	17326.3	17260.0	17189.7	17181.4	17198.0	17218.7	17322.1	17119.3
42.5°	18286.3	18145.6	18431.1	18327.7	18228.4	18162.1	18215.9	18257.3	18356.6	18129.0
45°	19449.1	19287.7	19660.1	19536.0	19378.8	19242.2	19329.1	19391.2	19536.0	19262.9
47.5°	20731.9	20549.8	20947.1	20909.9	20653.3	20355.3	20554.0	20731.9	20839.5	20508.5
50°	21985.8	21845.1	22366.5	22412.0	22097.5	21679.5	21956.8	22225.8	22254.7	21820.2
52.5°	23161.0	23020.3	23777.6	24063.1	23781.7	23285.1	23578.9	23852.0	23632.7	23069.9
55°	24100.3	23984.5	24948.6	25685.2	25780.4	25370.7	25544.5	25536.3	24816.2	23951.4
57.5°	24327.9	24311.4	25528.0	27088.0	28081.2	28130.8	27787.4	26910.1	25358.3	24195.5
60°	23293.4	23396.9	25068.6	27820.5	30468.9	31569.6	30084.0	27580.5	24741.7	23127.9
62.5°	20198.1	20471.2	22486.5	26926.7	32397.2	35525.6	31925.5	26562.5	22209.2	20102.9
65°	14475.1	14951.0	17177.3	22978.9	32223.4	39001.7	31660.7	22792.7	17342.8	14913.7
67.5°	6567.2	7051.3	8942.4	15733.1	28010.8	38058.2	27944.6	15898.6	9389.4	7076.2
70°	2379.4	2462.2	3070.5	6298.2	17901.4	30324.0	18667.0	6343.7	3265.0	2623.6
72.5°	1440.1	1452.5	1580.8	2255.3	6219.6	18410.4	6484.4	2329.8	1613.9	1431.8
75°	914.5	906.2	1125.6	1378.0	2205.6	6211.3	2313.2	1378.0	1121.4	1022.1
77.5°	658.0	678.6	806.9	1030.4	1390.4	2106.3	1365.6	984.9	806.9	662.1
80°	492.4	504.8	587.6	802.8	976.6	1311.8	869.0	728.3	608.3	413.8
82.5°	355.9	355.9	384.8	583.5	595.9	707.6	471.7	513.1	401.4	293.8
85°	211.0	206.9	240.0	347.6	310.4	260.7	215.2	314.5	252.4	182.1
87.5°	74.5	78.6	74.5	99.3	82.8	70.3	66.2	86.9	70.3	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
9815.6
9873.5
10010.1
10217.0
10465.3
10721.8
11003.2
11388.1
11822.6
12290.2
12815.7
13361.9
13957.8
14657.2
15443.4
16304.1
17185.6
18249.0
19403.6
20620.2
21874.0
23086.5
23980.3
24121.0
22937.5
19978.8
14735.8
6972.7
2590.5
1456.6
1030.4
674.5
426.2
293.8
177.9
57.9
0.0

OF REPORT)