

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: P948905

Luminaire Tested: **GALN-SB3D-827-U-5NQ**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P948905  
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-SB3D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

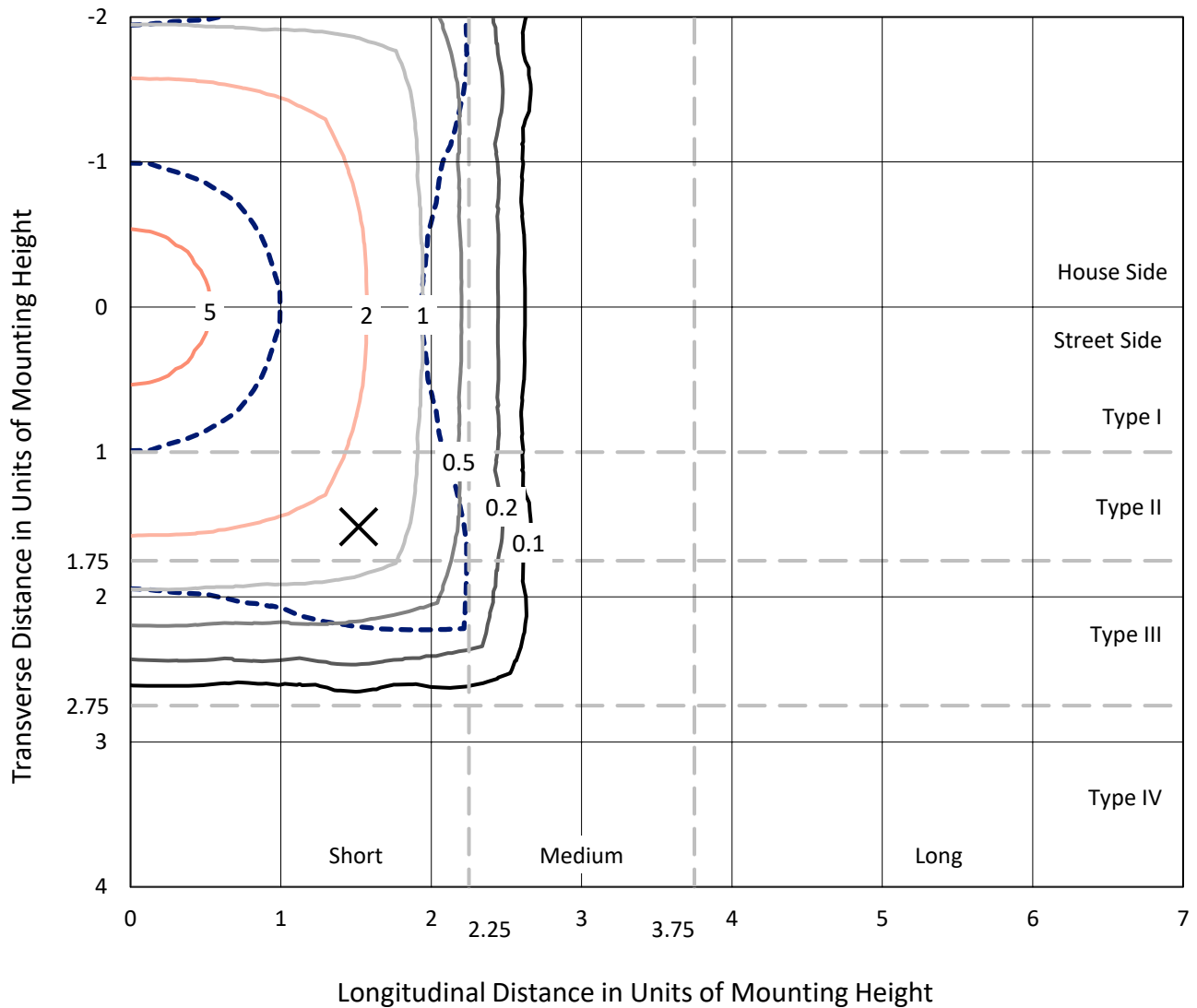
Lumens per Lamp: N/A  
Luminaire Lumens: 27821 lumens  
Efficiency: N/A  
Efficacy: 127.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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: P948905  
 CATALOG NUMBER: GALN-SB3D-827-U-5NQ

### Iso-Footcandle Lines of Horizontal Illumination

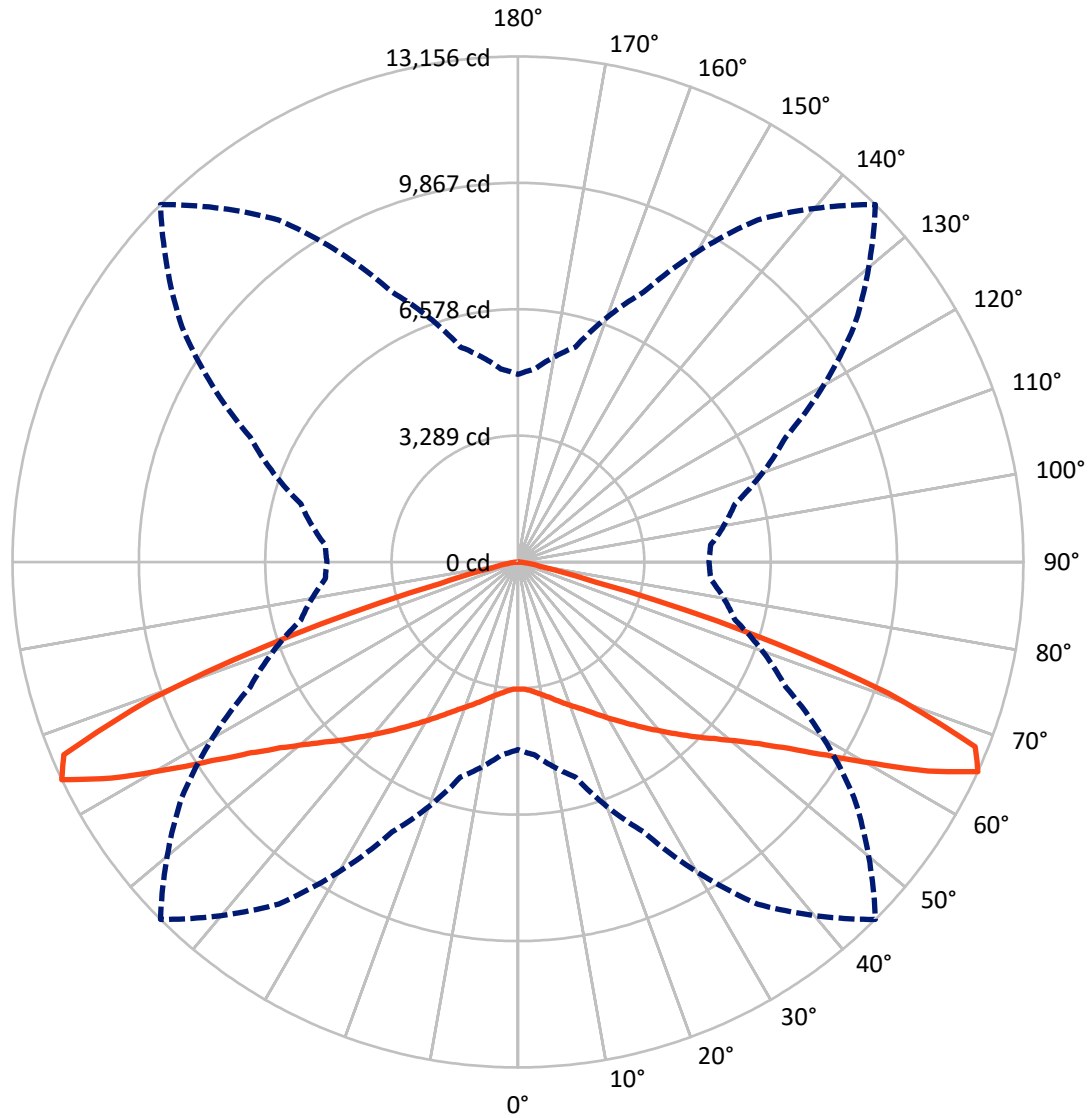
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

REPORT NUMBER: P948905  
CATALOG NUMBER: GALN-SB3D-827-U-5NQ

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P948905

CATALOG NUMBER: GALN-SB3D-827-U-5NQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13910.5	0.0	13910.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13910.5	0.0	13910.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27821.0	0.0	27821.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.8	1.2
10°-20°	1066.2	3.8
20°-30°	2013.2	7.2
30°-40°	3296.5	11.8
40°-50°	5111.3	18.4
50°-60°	7550.5	27.1
60°-70°	7187.4	25.8
70°-80°	1159.8	4.2
80°-90°	109.3	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°	27821.0	100.0
0°-180°	27821.0	100.0



REPORT NUMBER: P948905

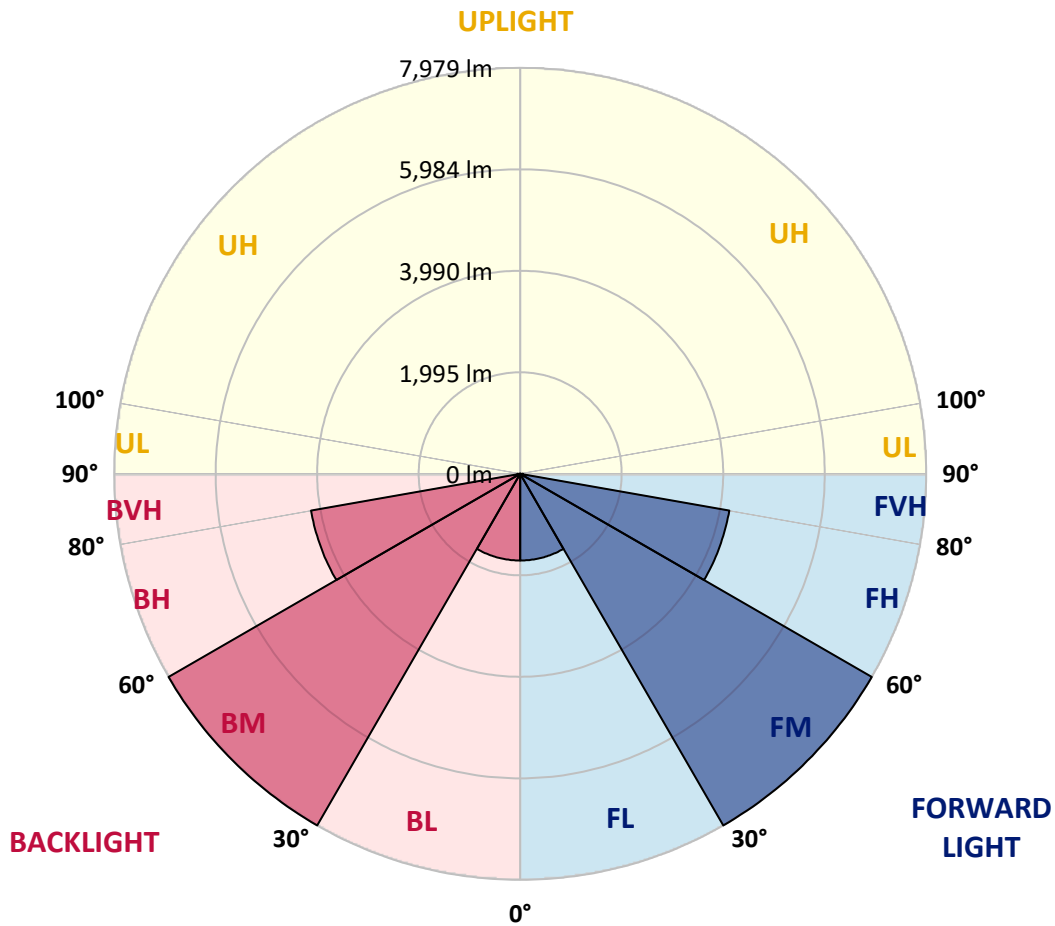
CATALOG NUMBER: GALN-SB3D-827-U-5NQ

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1703.1	6.1			
FM (30°-60°)	7979.2	28.7			
FH (60°-80°)	4173.6	15.0			G2/5000
FVH (80°-90°)	54.7	0.2			G1/100
BL (0°-30°)	1703.1	6.1	B3/2500		
BM (30°-60°)	7979.2	28.7	B4/8500		
BH (60°-80°)	4173.6	15.0	B4/5000		G2/5000
BVH (80°-90°)	54.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short



REPORT NUMBER: P948905

CATALOG NUMBER: GALN-SB3D-827-U-5NQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3311.0	3311.0	3311.0	3311.0	3311.0	3311.0	3311.0	3311.0	3311.0	3311.0
2.5°	3333.3	3322.1	3330.5	3323.5	3318.0	3312.4	3315.2	3324.9	3329.1	3330.5
5°	3378.0	3368.2	3372.4	3372.4	3362.6	3359.8	3361.2	3368.2	3376.6	3376.6
7.5°	3450.6	3440.8	3450.6	3445.0	3436.6	3433.8	3432.4	3438.0	3450.6	3450.6
10°	3538.5	3527.3	3532.9	3530.1	3520.4	3516.2	3514.8	3523.1	3534.3	3532.9
12.5°	3634.8	3622.3	3629.2	3620.9	3618.1	3613.9	3613.9	3612.5	3619.5	3613.9
15°	3742.3	3733.9	3736.7	3731.1	3735.3	3732.5	3721.4	3715.8	3718.6	3710.2
17.5°	3869.3	3849.8	3859.5	3856.8	3856.8	3862.3	3844.2	3837.2	3842.8	3834.4
20°	4015.9	3996.3	4000.5	3994.9	3988.0	3993.6	3971.2	3976.8	3981.0	3975.4
22.5°	4176.4	4151.3	4149.9	4152.7	4137.3	4138.7	4123.4	4137.3	4145.7	4130.3
25°	4341.1	4314.6	4332.7	4325.8	4306.2	4310.4	4299.2	4313.2	4320.2	4300.6
27.5°	4515.6	4497.5	4514.2	4518.4	4494.7	4511.4	4494.7	4507.2	4514.2	4484.9
30°	4719.4	4701.3	4716.6	4727.8	4699.9	4726.4	4712.4	4720.8	4722.2	4687.3
32.5°	4941.3	4913.4	4952.5	4958.1	4927.4	4959.5	4941.3	4952.5	4959.5	4912.0
35°	5212.1	5177.2	5221.9	5214.9	5188.4	5214.9	5198.2	5214.9	5231.7	5174.4
37.5°	5503.9	5467.6	5515.0	5502.5	5477.4	5495.5	5485.7	5496.9	5523.4	5462.0
40°	5824.9	5780.3	5844.5	5822.1	5798.4	5795.6	5801.2	5808.2	5843.1	5774.7
42.5°	6168.3	6120.8	6217.2	6182.3	6148.8	6126.4	6144.6	6158.5	6192.0	6115.3
45°	6560.5	6506.1	6631.7	6589.8	6536.8	6490.7	6520.1	6541.0	6589.8	6497.7
47.5°	6993.3	6931.8	7065.8	7053.3	6966.7	6866.2	6933.2	6993.3	7029.5	6917.9
50°	7416.2	7368.7	7544.6	7560.0	7453.9	7312.9	7406.4	7497.2	7506.9	7360.4
52.5°	7812.6	7765.2	8020.6	8116.9	8022.0	7854.5	7953.6	8045.7	7971.8	7781.9
55°	8129.5	8090.4	8415.6	8664.1	8696.2	8558.0	8616.6	8613.8	8371.0	8079.2
57.5°	8206.3	8200.7	8611.1	9137.3	9472.3	9489.0	9373.2	9077.3	8553.8	8161.6
60°	7857.3	7892.2	8456.1	9384.4	10277.7	10649.0	10147.9	9303.4	8345.8	7801.5
62.5°	6813.2	6905.3	7585.1	9082.9	10928.2	11983.4	10769.1	8960.0	7491.6	6781.1
65°	4882.7	5043.2	5794.2	7751.2	10869.6	13156.0	10679.7	7688.4	5850.0	5030.7
67.5°	2215.2	2378.5	3016.5	5307.1	9448.6	12837.7	9426.2	5362.9	3167.2	2386.9
70°	802.6	830.5	1035.7	2124.5	6038.5	10228.9	6296.7	2139.9	1101.3	885.0
72.5°	485.8	489.9	533.2	760.7	2098.0	6210.2	2187.3	785.9	544.4	483.0
75°	308.5	305.7	379.7	464.8	744.0	2095.2	780.3	464.8	378.3	344.8
77.5°	221.9	228.9	272.2	347.6	469.0	710.5	460.6	332.2	272.2	223.3
80°	166.1	170.3	198.2	270.8	329.4	442.5	293.1	245.7	205.2	139.6
82.5°	120.0	120.0	129.8	196.8	201.0	238.7	159.1	173.1	135.4	99.1
85°	71.2	69.8	81.0	117.3	104.7	87.9	72.6	106.1	85.1	61.4
87.5°	25.1	26.5	25.1	33.5	27.9	23.7	22.3	29.3	23.7	20.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END C

90°
3311.0
3330.5
3376.6
3446.4
3530.1
3616.7
3711.6
3841.4
3988.0
4145.7
4323.0
4507.2
4708.2
4944.1
5209.3
5499.7
5797.0
6155.7
6545.2
6955.6
7378.5
7787.5
8089.0
8136.5
7737.2
6739.2
4970.7
2352.0
873.8
491.3
347.6
227.5
143.8
99.1
60.0
19.5
0.0

OF REPORT)