

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: P454745

Luminaire Tested: **GALN-SA5D-827-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454745  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5D-827-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29806 lumens  
Efficiency: N/A  
Efficacy: 96.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

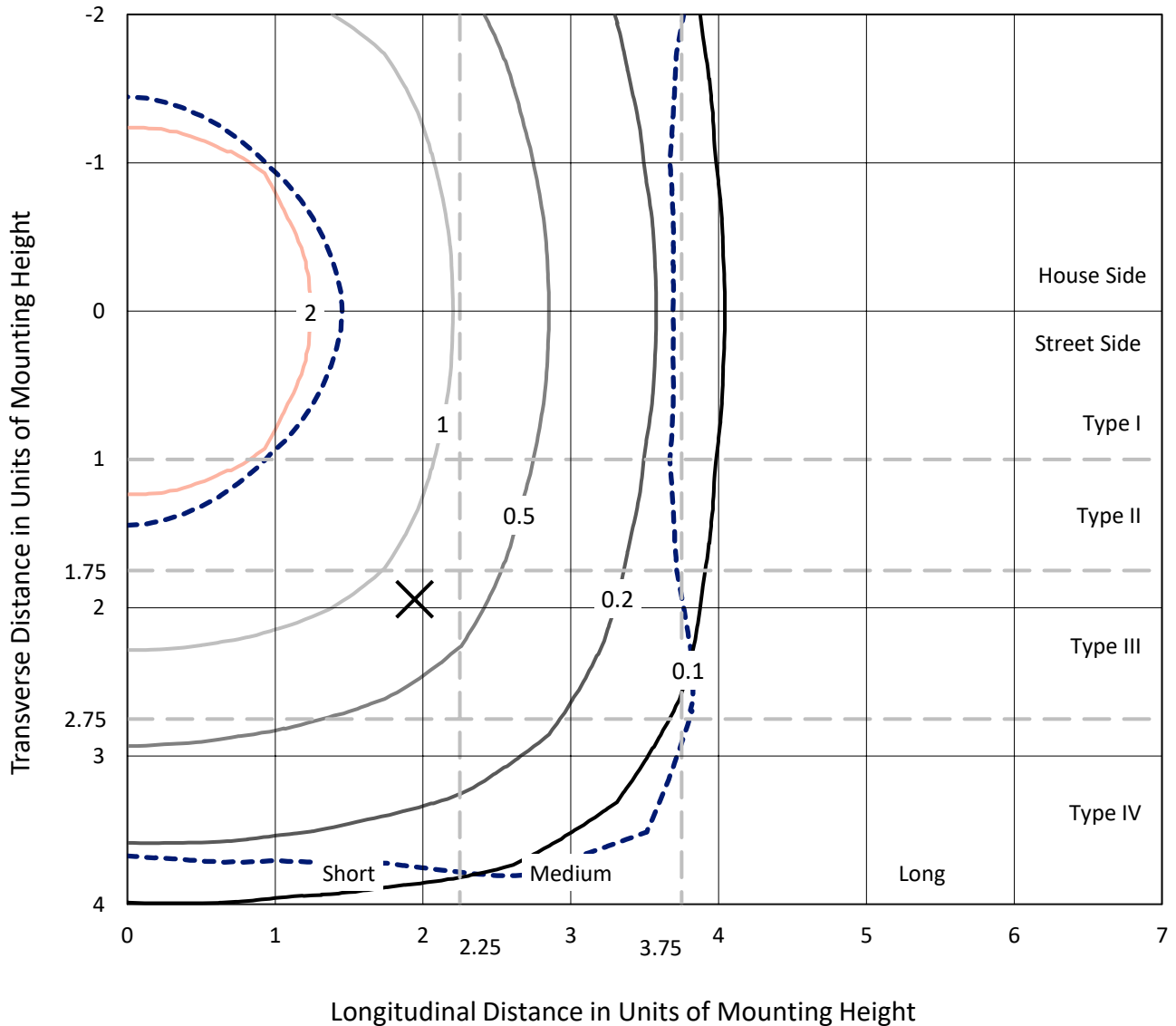
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P454745  
 CATALOG NUMBER: GALN-SA5D-827-U-5WQ

### Iso-Footcandle Lines of Horizontal Illumination

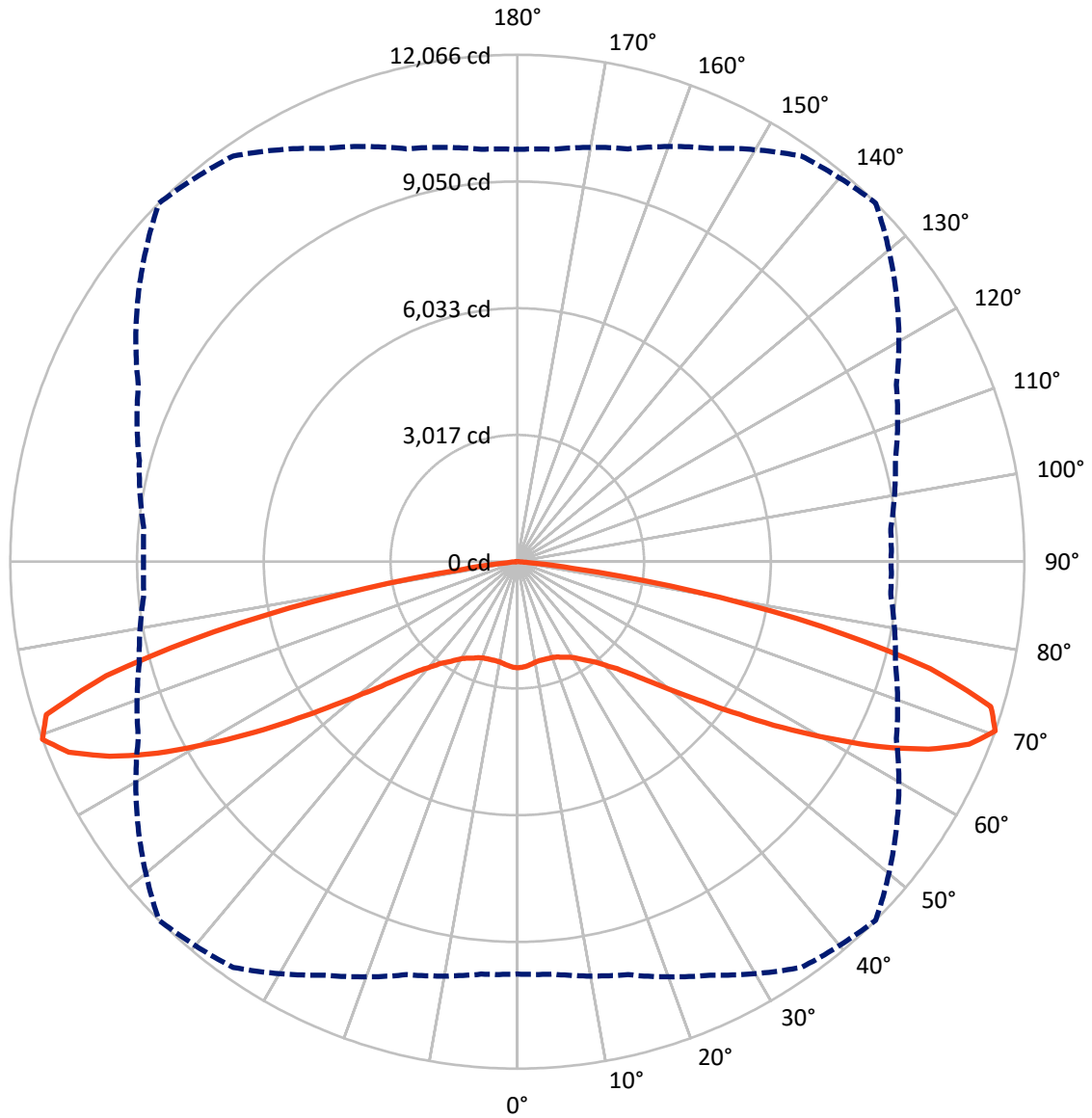
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

REPORT NUMBER: P454745  
CATALOG NUMBER: GALN-SA5D-827-U-5WQ

### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P454745

CATALOG NUMBER: GALN-SA5D-827-U-5WQ

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14903.0	0.0	14903.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14903.0	0.0	14903.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29806.0	0.0	29806.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	236.0	0.8
10°-20°	690.9	2.3
20°-30°	1177.1	3.9
30°-40°	1824.5	6.1
40°-50°	3070.8	10.3
50°-60°	5587.3	18.7
60°-70°	9459.1	31.7
70°-80°	7321.7	24.6
80°-90°	438.7	1.5
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°	29806.0	100.0
0°-180°	29806.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P454745

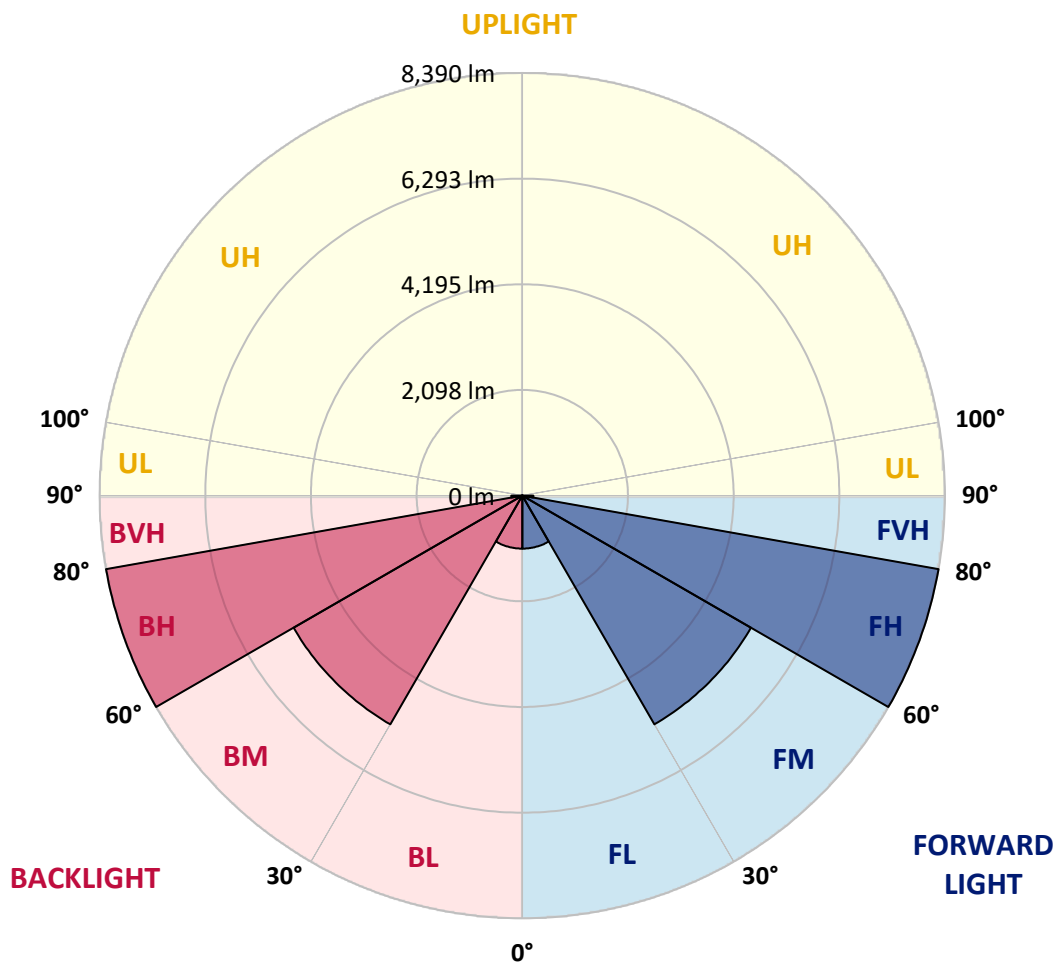
CATALOG NUMBER: GALN-SA5D-827-U-5WQ

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1052.0	3.5			
FM	(30°-60°)	5241.3	17.6			
FH	(60°-80°)	8390.4	28.1			G4/12000
FVH	(80°-90°)	219.4	0.7			G2/225
BL	(0°-30°)	1052.0	3.5	B3/2500		
BM	(30°-60°)	5241.3	17.6	B4/8500		
BH	(60°-80°)	8390.4	28.1	B5		G4/12000
BVH	(80°-90°)	219.4	0.7			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





REPORT NUMBER: P454745  
 CATALOG NUMBER: GALN-SA5D-827-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4	2523.4
2.5°	2517.1	2518.7	2518.7	2515.6	2514.0	2514.0	2512.4	2512.4	2517.1	2518.7	2520.3
5°	2495.1	2495.1	2495.1	2493.5	2490.4	2490.4	2487.2	2487.2	2488.8	2493.5	2490.4
7.5°	2465.2	2468.3	2468.3	2462.0	2457.3	2457.3	2455.8	2457.3	2458.9	2463.6	2462.0
10°	2455.8	2457.3	2449.5	2438.4	2430.6	2425.8	2427.4	2430.6	2438.4	2441.6	2443.2
12.5°	2462.0	2462.0	2447.9	2432.1	2418.0	2411.7	2410.1	2421.1	2435.3	2444.7	2447.9
15°	2469.9	2466.8	2449.5	2429.0	2414.8	2413.2	2411.7	2419.5	2440.0	2458.9	2460.5
17.5°	2474.6	2473.1	2451.0	2425.8	2418.0	2418.0	2416.4	2422.7	2444.7	2468.3	2469.9
20°	2490.4	2485.7	2460.5	2433.7	2427.4	2430.6	2425.8	2433.7	2457.3	2485.7	2492.0
22.5°	2521.9	2517.1	2492.0	2465.2	2462.0	2462.0	2460.5	2468.3	2493.5	2523.4	2528.2
25°	2559.6	2554.9	2531.3	2512.4	2515.6	2521.9	2518.7	2520.3	2540.8	2565.9	2573.8
27.5°	2610.0	2602.2	2581.7	2565.9	2575.4	2575.4	2575.4	2573.8	2586.4	2610.0	2617.9
30°	2671.4	2668.3	2646.2	2644.7	2652.5	2644.7	2644.7	2646.2	2647.8	2669.8	2677.7
32.5°	2751.7	2745.4	2734.4	2731.2	2753.3	2759.6	2737.5	2717.1	2728.1	2750.1	2754.9
35°	2883.9	2874.5	2858.7	2841.4	2858.7	2888.7	2841.4	2825.7	2854.0	2883.9	2887.1
37.5°	3063.4	3058.7	3033.5	3002.0	3000.4	3031.9	2983.1	2981.5	3035.1	3071.3	3076.0
40°	3288.5	3293.2	3261.7	3231.8	3216.1	3241.3	3203.5	3217.7	3269.6	3310.5	3307.4
42.5°	3604.9	3587.6	3538.8	3510.5	3493.2	3483.7	3474.3	3496.3	3554.5	3598.6	3633.3
45°	3974.9	3968.6	3907.2	3872.5	3834.8	3820.6	3817.4	3856.8	3927.6	3981.2	3985.9
47.5°	4393.6	4379.4	4340.1	4303.9	4289.7	4272.4	4256.6	4286.5	4357.4	4395.2	4406.2
50°	4824.9	4828.1	4828.1	4821.8	4835.9	4839.1	4796.6	4807.6	4847.0	4843.8	4840.7
52.5°	5317.6	5335.0	5416.8	5424.7	5492.4	5538.0	5460.9	5415.2	5401.1	5316.1	5322.4
55°	5897.0	5912.7	6035.5	6158.3	6340.9	6418.0	6255.9	6114.2	6013.4	5884.4	5890.7
57.5°	6619.5	6627.4	6743.9	6980.0	7269.7	7450.7	7165.8	6885.6	6680.9	6558.1	6509.3
60°	7397.2	7405.0	7575.1	7863.1	8313.4	8533.7	8181.1	7723.0	7464.9	7277.5	7290.1
62.5°	8330.7	8362.2	8514.8	8911.5	9457.8	9704.9	9237.4	8625.0	8275.6	8042.6	8052.0
65°	9330.3	9383.8	9550.7	9986.7	10490.5	10756.5	10183.5	9476.7	9042.2	8757.3	8787.2
67.5°	9978.9	10026.1	10266.9	10748.6	11376.7	11597.1	10857.3	10034.0	9490.9	9150.8	9087.9
70°	9813.6	9852.9	10174.1	10857.3	11787.6	12066.2	11017.8	9952.1	9313.0	8921.0	8895.8
72.5°	8662.8	8581.0	9050.1	10030.8	11318.5	11786.0	10512.5	9089.4	8285.0	7882.0	7834.8
75°	5741.1	5919.0	6611.6	7767.1	9575.9	10155.2	8972.9	7298.0	6285.8	5950.5	5898.5
77.5°	1919.0	2055.9	2671.4	4403.0	6528.2	7398.7	6537.7	4773.0	3376.7	2720.2	2732.8
80°	508.5	502.2	650.1	1210.6	2821.0	4285.0	3283.8	1616.7	884.7	640.7	607.6
82.5°	182.6	204.6	262.9	335.3	747.7	1331.8	939.8	453.4	332.2	245.6	237.7
85°	80.3	78.7	113.3	133.8	187.3	248.7	220.4	192.1	168.4	111.8	103.9
87.5°	17.3	17.3	26.8	20.5	33.1	33.1	40.9	48.8	50.4	33.1	26.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)