

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: P454743

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454743  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29869 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

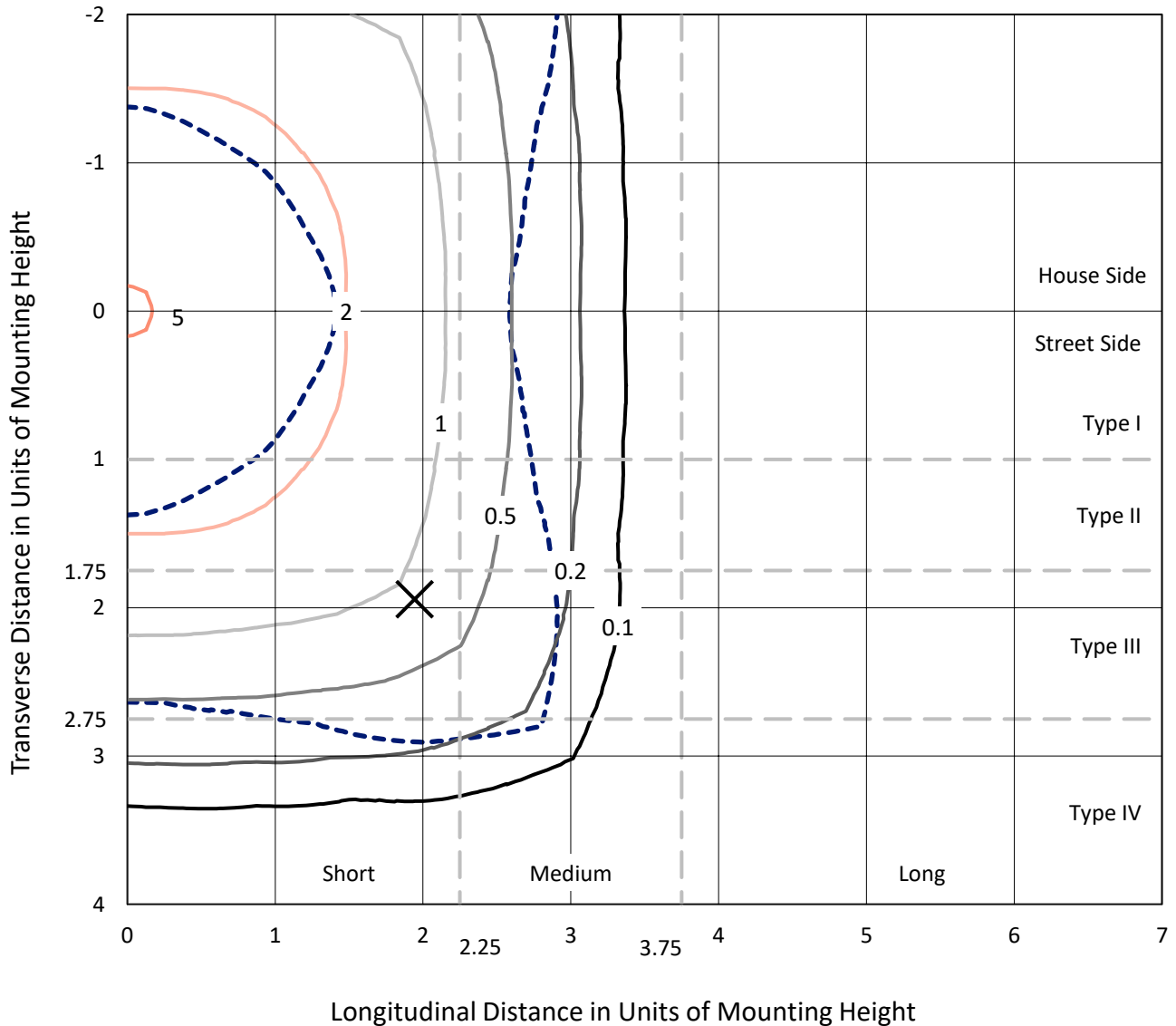
Input Watts (W): 309  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

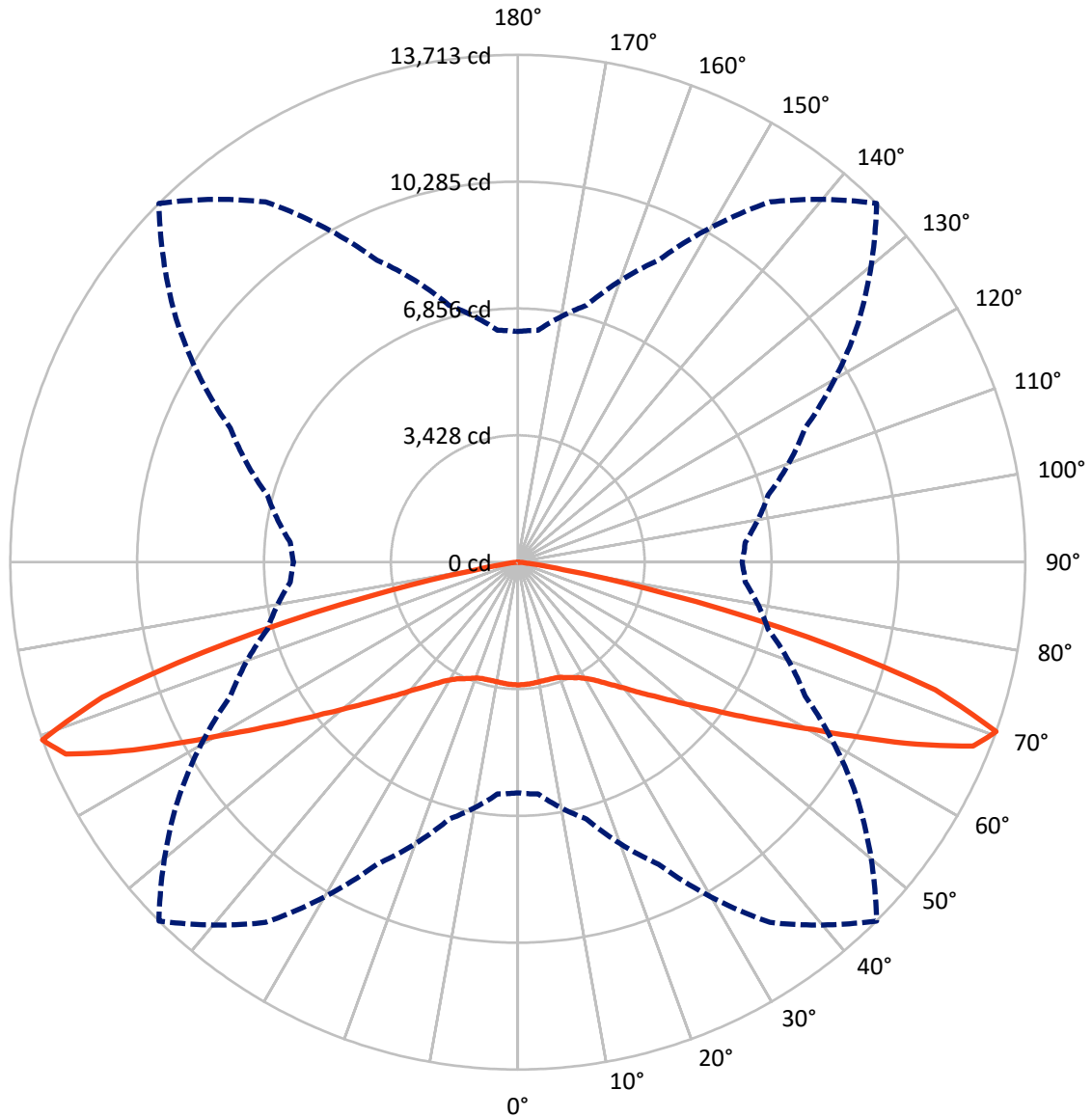
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14934.5	0.0	14934.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14934.5	0.0	14934.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29869.0	0.0	29869.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	314.5	1.1
10°-20°	923.0	3.1
20°-30°	1578.5	5.3
30°-40°	2505.5	8.4
40°-50°	4042.0	13.5
50°-60°	6576.5	22.0
60°-70°	9533.5	31.9
70°-80°	4228.7	14.2
80°-90°	166.8	0.6
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°	29869.0	100.0
0°-180°	29869.0	100.0

**Coefficient of Utilization**



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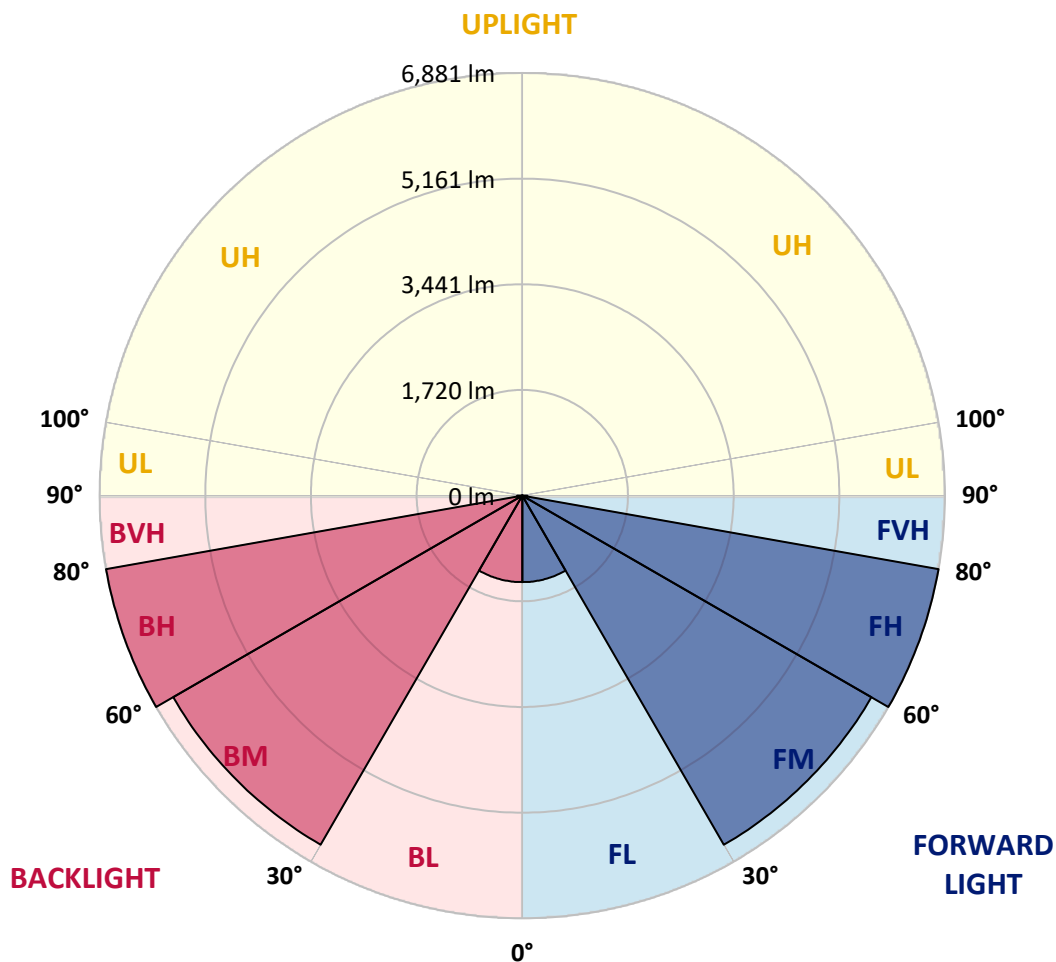
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1408.0	4.7			
FM (30°-60°)	6562.0	22.0			
FH (60°-80°)	6881.1	23.0			G3/7500
FVH (80°-90°)	83.4	0.3			G1/100
BL (0°-30°)	1408.0	4.7	B3/2500		
BM (30°-60°)	6562.0	22.0	B4/8500		
BH (60°-80°)	6881.1	23.0	B5		G3/7500
BVH (80°-90°)	83.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3316.8	3316.8	3316.8	3316.8	3316.8	3316.8	3316.8	3316.8	3316.8	3316.8	3316.8
2.5°	3316.8	3320.0	3315.2	3312.1	3310.5	3310.5	3308.9	3310.5	3320.0	3321.5	3316.8
5°	3307.4	3310.5	3308.9	3305.8	3304.2	3304.2	3302.6	3301.1	3308.9	3312.1	3310.5
7.5°	3294.8	3296.3	3294.8	3293.2	3294.8	3293.2	3288.5	3285.3	3291.6	3291.6	3290.1
10°	3272.7	3275.9	3274.3	3275.9	3279.0	3279.0	3272.7	3266.4	3268.0	3264.9	3264.9
12.5°	3246.0	3250.7	3252.3	3258.6	3266.4	3275.9	3261.7	3247.5	3244.4	3242.8	3241.3
15°	3228.7	3233.4	3239.7	3246.0	3260.1	3280.6	3260.1	3238.1	3231.8	3225.5	3222.4
17.5°	3223.9	3230.2	3239.7	3249.1	3268.0	3288.5	3271.2	3249.1	3233.4	3223.9	3220.8
20°	3236.5	3241.3	3255.4	3272.7	3299.5	3320.0	3302.6	3279.0	3255.4	3241.3	3236.5
22.5°	3261.7	3269.6	3286.9	3318.4	3356.2	3386.1	3362.5	3323.1	3285.3	3266.4	3260.1
25°	3316.8	3323.1	3343.6	3386.1	3430.2	3458.5	3433.3	3387.7	3335.7	3310.5	3302.6
27.5°	3400.2	3409.7	3431.7	3482.1	3518.3	3534.0	3516.7	3485.2	3447.5	3420.7	3414.4
30°	3518.3	3529.3	3562.4	3615.9	3639.5	3649.0	3641.1	3620.6	3593.9	3565.5	3559.2
32.5°	3677.3	3683.6	3721.4	3771.8	3793.8	3796.9	3787.5	3778.0	3734.0	3686.7	3683.6
35°	3855.2	3866.2	3911.9	3971.7	3992.1	3993.7	3974.8	3960.7	3908.7	3870.9	3870.9
37.5°	4091.3	4096.0	4140.1	4207.8	4229.8	4223.5	4214.1	4201.5	4146.4	4097.6	4099.2
40°	4368.4	4377.8	4415.6	4494.3	4494.3	4486.4	4492.7	4483.3	4428.2	4381.0	4382.5
42.5°	4697.4	4702.1	4747.7	4831.2	4824.9	4809.1	4815.4	4802.8	4768.2	4714.7	4695.8
45°	5048.4	5067.3	5146.0	5226.3	5213.7	5163.3	5188.5	5185.4	5153.9	5073.6	5078.3
47.5°	5471.9	5503.4	5578.9	5674.9	5660.8	5582.1	5610.4	5629.3	5585.2	5497.1	5481.3
50°	5948.9	5969.3	6081.1	6170.8	6158.2	6074.8	6139.3	6142.5	6032.3	5907.9	5907.9
52.5°	6457.3	6477.8	6628.9	6769.0	6776.9	6655.7	6707.6	6704.5	6525.0	6361.3	6329.8
55°	7027.2	7036.6	7231.8	7438.0	7482.1	7364.0	7370.3	7307.4	7074.4	6883.9	6866.6
57.5°	7615.9	7650.5	7866.2	8133.8	8264.5	8192.1	8159.0	7990.6	7765.5	7546.7	7535.6
60°	8267.6	8269.2	8549.4	8865.8	9130.3	9179.1	9043.7	8818.6	8527.4	8237.7	8225.1
62.5°	8719.4	8787.1	9141.3	9676.5	10150.4	10424.3	10066.9	9594.7	9021.7	8554.1	8506.9
65°	8812.3	8857.9	9397.9	10304.6	11272.8	11863.1	11036.6	10032.3	9054.7	8431.3	8399.9
67.5°	8061.4	8110.2	8837.5	10229.1	12059.8	13270.4	11666.3	9821.4	8494.3	7723.0	7661.6
70°	6235.4	6290.5	7189.3	9004.3	11885.1	13712.7	11217.7	8566.7	7005.1	6172.4	6060.6
72.5°	3315.2	3518.3	4286.5	6180.3	9646.6	11806.4	9198.0	6251.1	4517.9	3693.0	3545.1
75°	1210.5	1235.7	1663.9	2740.7	5612.0	8096.0	5827.6	2981.5	1714.3	1323.9	1256.2
77.5°	500.6	499.0	547.8	828.0	2038.6	4146.4	2274.7	875.2	546.2	505.3	499.0
80°	295.9	295.9	325.9	344.7	536.8	1251.5	599.8	390.4	327.4	299.1	303.8
82.5°	132.2	140.1	206.2	217.2	259.7	343.2	289.7	248.7	214.1	148.0	133.8
85°	72.4	63.0	108.6	113.3	124.4	127.5	137.0	135.4	124.4	72.4	74.0
87.5°	14.2	17.3	31.5	23.6	26.8	23.6	31.5	44.1	45.7	25.2	20.5
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)