

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: P455439

Luminaire Tested: **GALN-SA6C-827-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455439  
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-SA6C-827-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32143 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

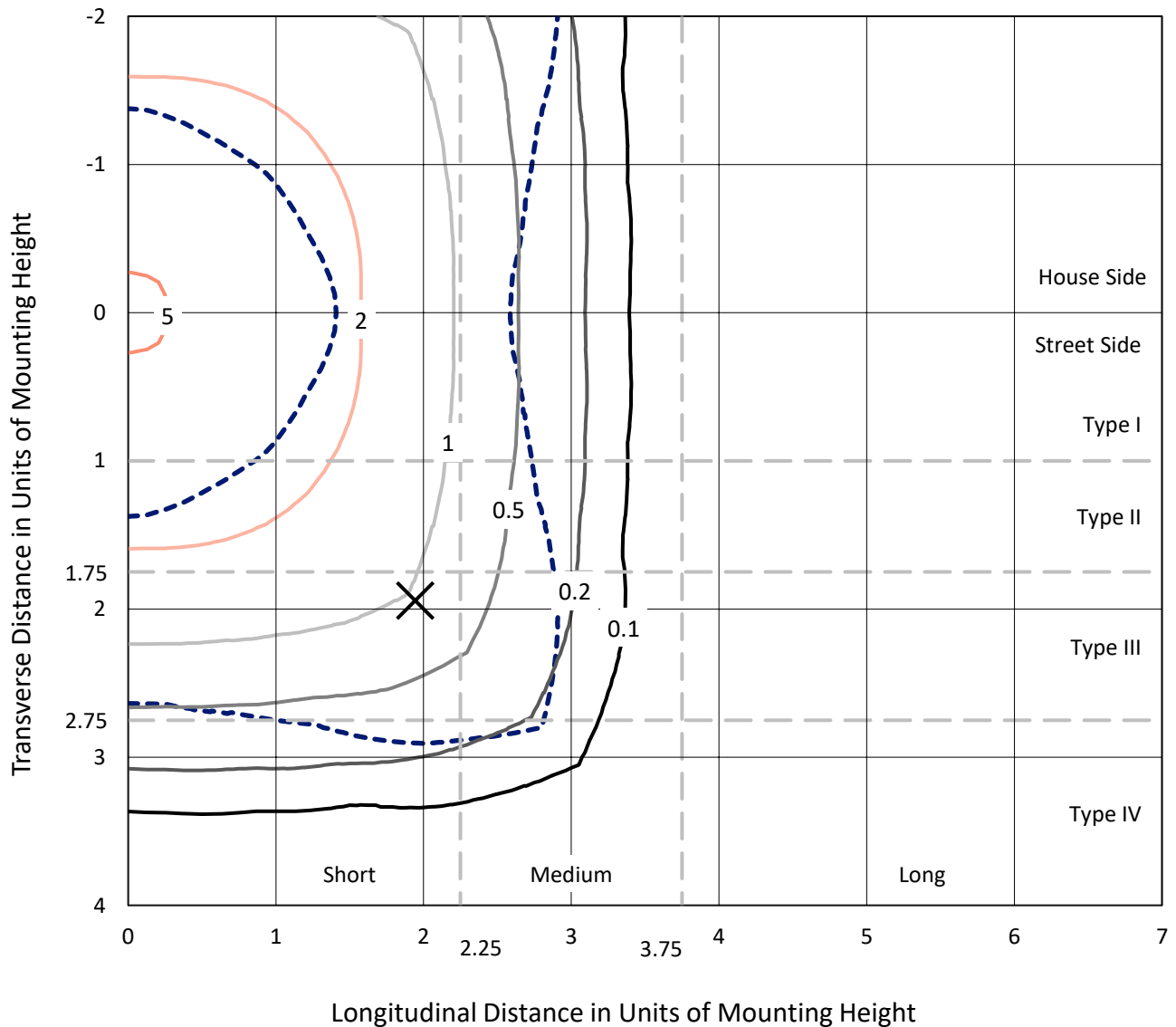
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

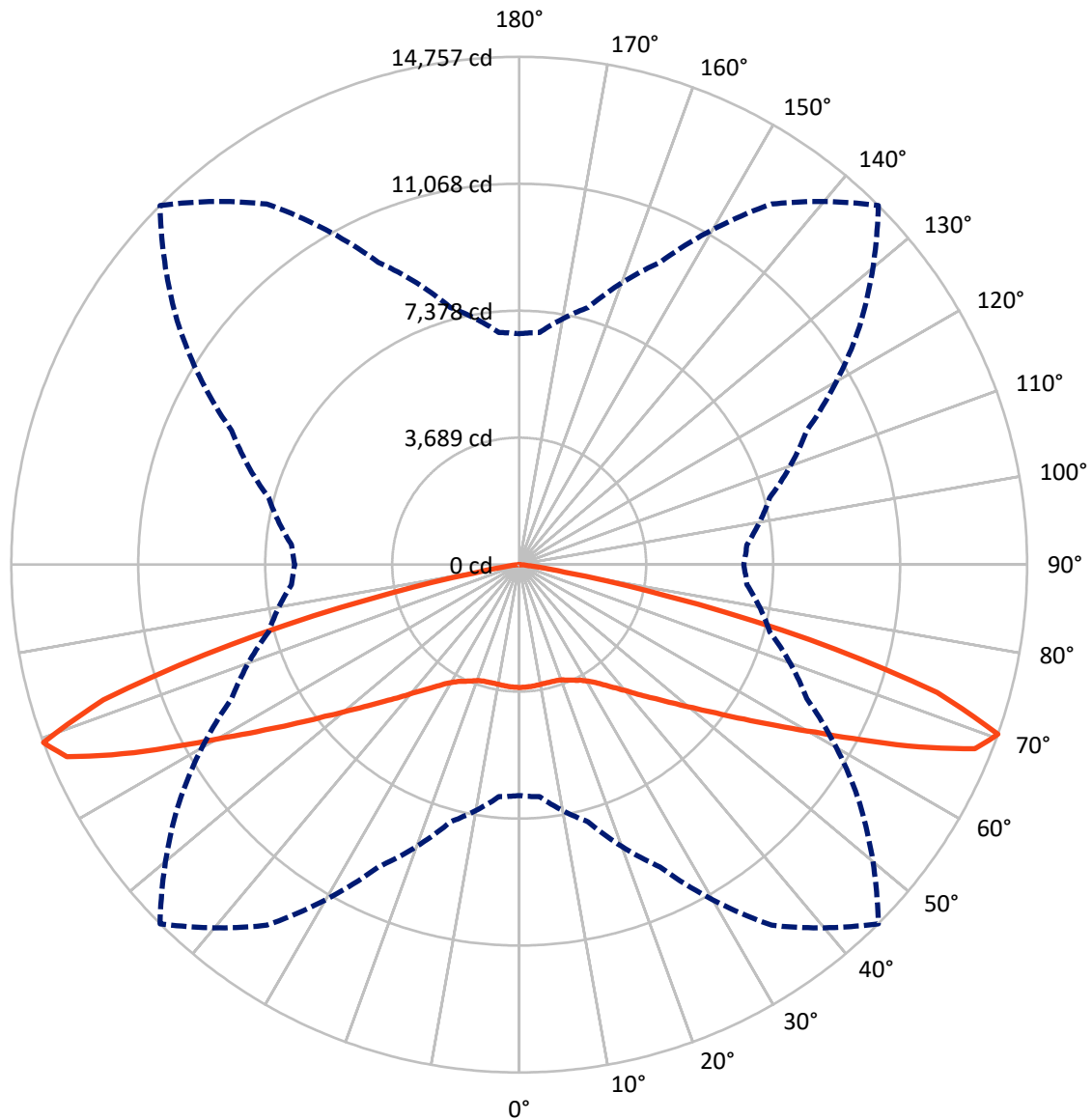
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	16071.5	0.0	16071.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	16071.5	0.0	16071.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	32143.0	0.0	32143.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.5	1.1
10°-20°	993.2	3.1
20°-30°	1698.7	5.3
30°-40°	2696.2	8.4
40°-50°	4349.7	13.5
50°-60°	7077.1	22.0
60°-70°	10259.3	31.9
70°-80°	4550.7	14.2
80°-90°	179.5	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°	32143.0	100.0
0°-180°	32143.0	100.0



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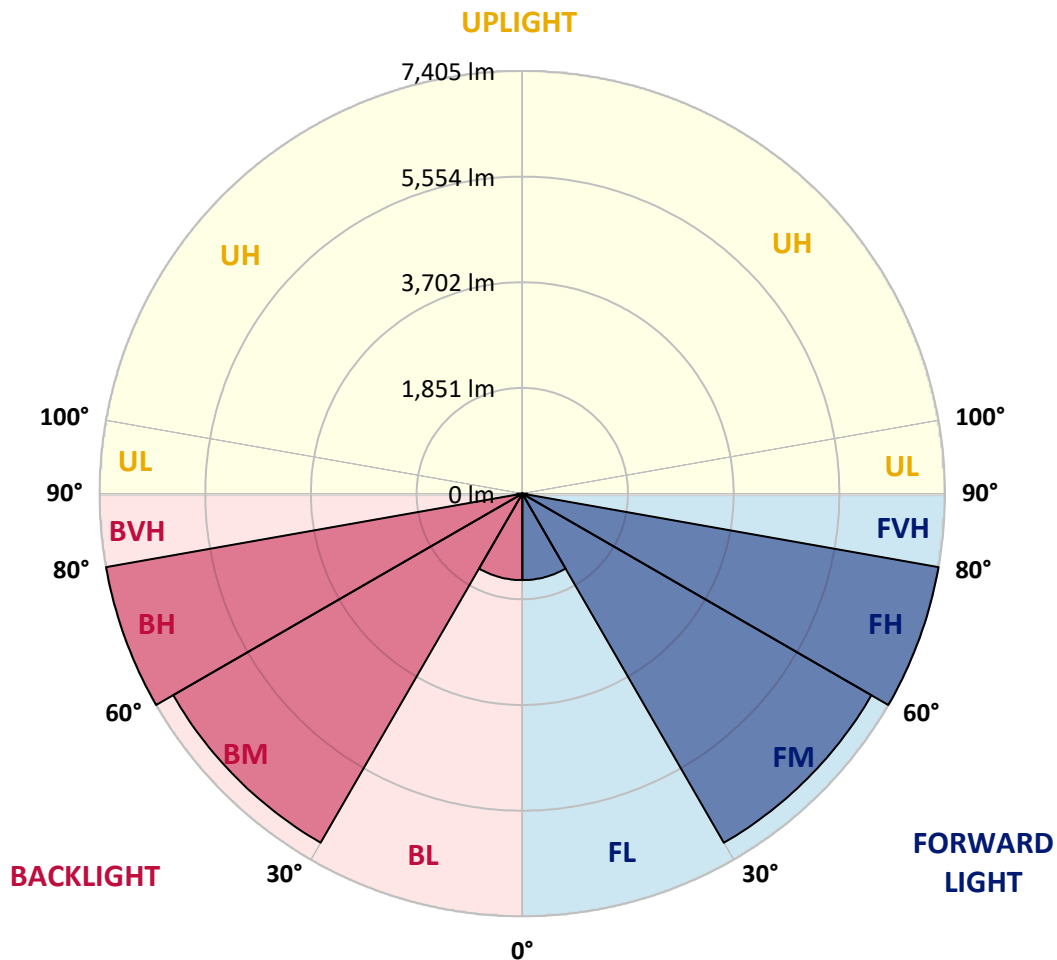
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1515.2	4.7			
FM (30°-60°)	7061.6	22.0			
FH (60°-80°)	7405.0	23.0			G3/7500
FVH (80°-90°)	89.7	0.3			G1/100
BL (0°-30°)	1515.2	4.7	B3/2500		
BM (30°-60°)	7061.6	22.0	B4/8500		
BH (60°-80°)	7405.0	23.0	B5		G3/7500
BVH (80°-90°)	89.7	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°	3569.3	3569.3	3569.3	3569.3	3569.3	3569.3	3569.3	3569.3	3569.3	3569.3	3569.3
2.5°	3569.3	3572.7	3567.6	3564.2	3562.6	3562.6	3560.9	3562.6	3572.7	3574.4	3569.3
5°	3559.2	3562.6	3560.9	3557.5	3555.8	3555.8	3554.1	3552.4	3560.9	3564.2	3562.6
7.5°	3545.6	3547.3	3545.6	3543.9	3545.6	3543.9	3538.8	3535.4	3542.2	3542.2	3540.5
10°	3521.9	3525.3	3523.6	3525.3	3528.7	3528.7	3521.9	3515.1	3516.8	3513.4	3513.4
12.5°	3493.1	3498.2	3499.9	3506.6	3515.1	3525.3	3510.0	3494.8	3491.4	3489.7	3488.0
15°	3474.5	3479.5	3486.3	3493.1	3508.3	3530.4	3508.3	3484.6	3477.9	3471.1	3467.7
17.5°	3469.4	3476.2	3486.3	3496.5	3516.8	3538.8	3520.2	3496.5	3479.5	3469.4	3466.0
20°	3482.9	3488.0	3503.3	3521.9	3550.7	3572.7	3554.1	3528.7	3503.3	3488.0	3482.9
22.5°	3510.0	3518.5	3537.1	3571.0	3611.7	3643.9	3618.5	3576.1	3535.4	3515.1	3508.3
25°	3569.3	3576.1	3598.1	3643.9	3691.3	3721.8	3694.7	3645.6	3589.7	3562.6	3554.1
27.5°	3659.1	3669.3	3693.0	3747.2	3786.2	3803.1	3784.5	3750.6	3709.9	3681.1	3674.4
30°	3786.2	3798.0	3833.6	3891.2	3916.6	3926.8	3918.3	3896.3	3867.5	3837.0	3830.2
32.5°	3957.3	3964.0	4004.7	4058.9	4082.6	4086.0	4075.8	4065.7	4018.2	3967.4	3964.0
35°	4148.7	4160.5	4209.7	4274.0	4296.1	4297.8	4277.4	4262.2	4206.3	4165.6	4165.6
37.5°	4402.8	4407.9	4455.3	4528.2	4551.9	4545.1	4534.9	4521.4	4462.1	4409.6	4411.3
40°	4700.9	4711.1	4751.8	4836.5	4836.5	4828.0	4834.8	4824.6	4765.3	4714.5	4716.2
42.5°	5055.0	5060.1	5109.2	5199.0	5192.2	5175.3	5182.0	5168.5	5131.2	5073.6	5053.3
45°	5432.8	5453.1	5537.8	5624.2	5610.6	5556.4	5583.5	5580.1	5546.3	5459.9	5465.0
47.5°	5888.5	5922.3	6003.7	6107.0	6091.7	6007.0	6037.5	6057.9	6010.4	5915.6	5898.6
50°	6401.8	6423.8	6544.1	6640.6	6627.1	6537.3	6606.7	6610.1	6491.5	6357.7	6357.7
52.5°	6948.9	6970.9	7133.6	7284.3	7292.8	7162.4	7218.3	7214.9	7021.8	6845.6	6811.7
55°	7562.2	7572.3	7782.4	8004.3	8051.7	7924.7	7931.5	7863.7	7613.0	7408.0	7389.4
57.5°	8195.7	8233.0	8465.1	8753.1	8893.7	8815.8	8780.2	8598.9	8356.7	8121.2	8109.3
60°	8897.1	8898.8	9200.3	9540.8	9825.4	9877.9	9732.2	9490.0	9176.6	8864.9	8851.3
62.5°	9383.3	9456.1	9837.3	10413.2	10923.1	11217.9	10833.3	10325.1	9708.5	9205.4	9154.6
65°	9483.2	9532.3	10113.4	11089.1	12131.0	12766.2	11876.9	10796.1	9744.1	9073.2	9039.4
67.5°	8675.1	8727.7	9510.3	11007.8	12978.0	14280.7	12554.5	10569.1	9141.0	8310.9	8244.9
70°	6710.1	6769.4	7736.7	9689.9	12790.0	14756.7	12071.7	9218.9	7538.4	6642.3	6522.0
72.5°	3567.6	3786.2	4612.9	6650.8	10381.0	12705.3	9898.2	6727.0	4861.9	3974.2	3815.0
75°	1302.7	1329.8	1790.6	2949.3	6039.2	8712.4	6271.3	3208.5	1844.8	1424.7	1351.8
77.5°	538.7	537.0	589.5	891.1	2193.8	4462.1	2447.9	941.9	587.8	543.8	537.0
80°	318.5	318.5	350.7	371.0	577.7	1346.8	645.4	420.1	352.4	321.9	326.9
82.5°	142.3	150.8	221.9	233.8	279.5	369.3	311.7	267.7	230.4	159.2	144.0
85°	77.9	67.8	116.9	122.0	133.8	137.2	147.4	145.7	133.8	77.9	79.6
87.5°	15.2	18.6	33.9	25.4	28.8	25.4	33.9	47.4	49.1	27.1	22.0
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)