

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: P454366

Luminaire Tested: **GALN-SA5C-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454366  
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-SA5C-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 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: 30882 lumens  
Efficiency: N/A  
Efficacy: 114.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

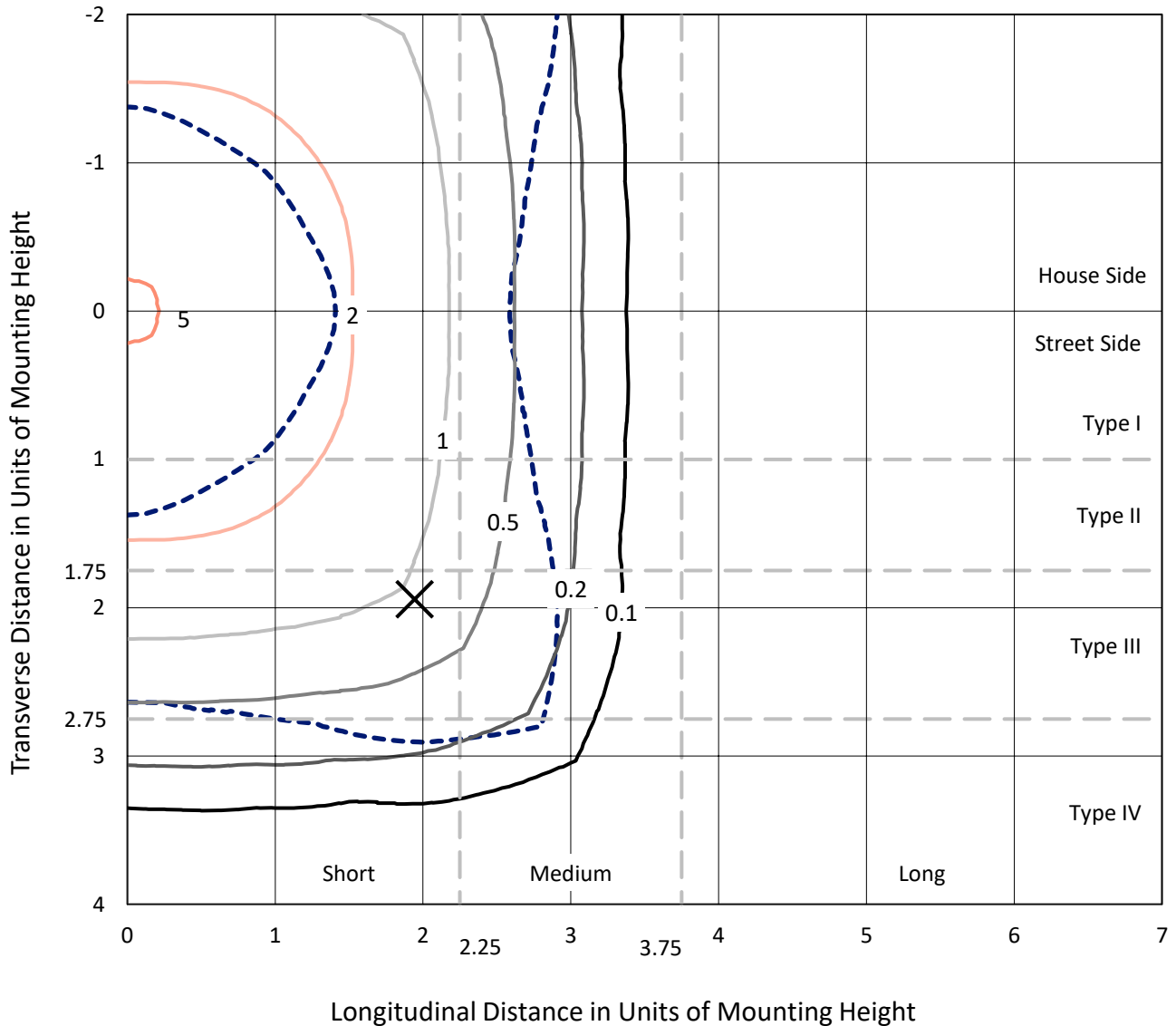
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

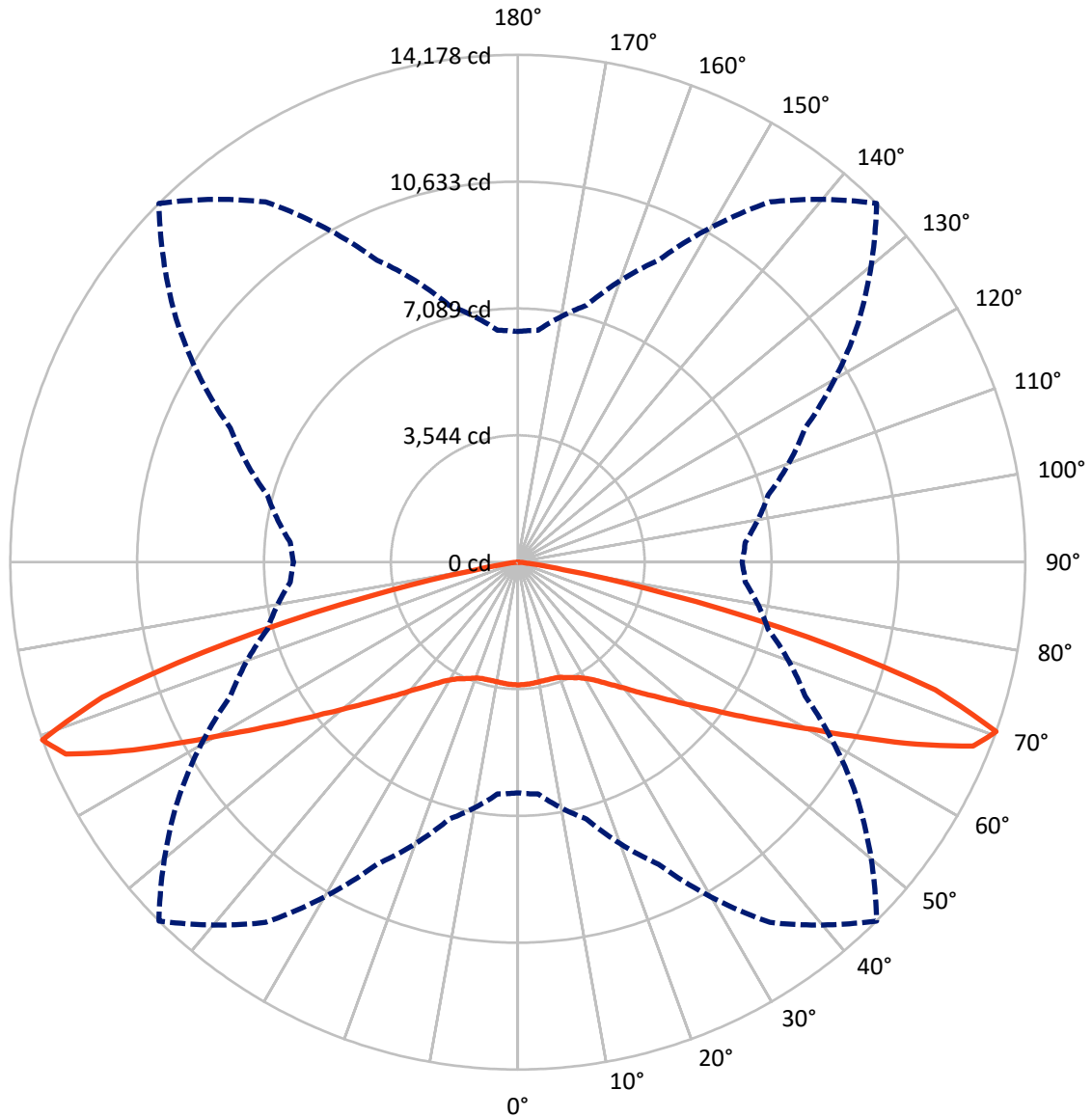
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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	15441.0	0.0	15441.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15441.0	0.0	15441.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30882.0	0.0	30882.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.2	1.1
10°-20°	954.3	3.1
20°-30°	1632.1	5.3
30°-40°	2590.5	8.4
40°-50°	4179.1	13.5
50°-60°	6799.5	22.0
60°-70°	9856.8	31.9
70°-80°	4372.1	14.2
80°-90°	172.4	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°	30882.0	100.0
0°-180°	30882.0	100.0



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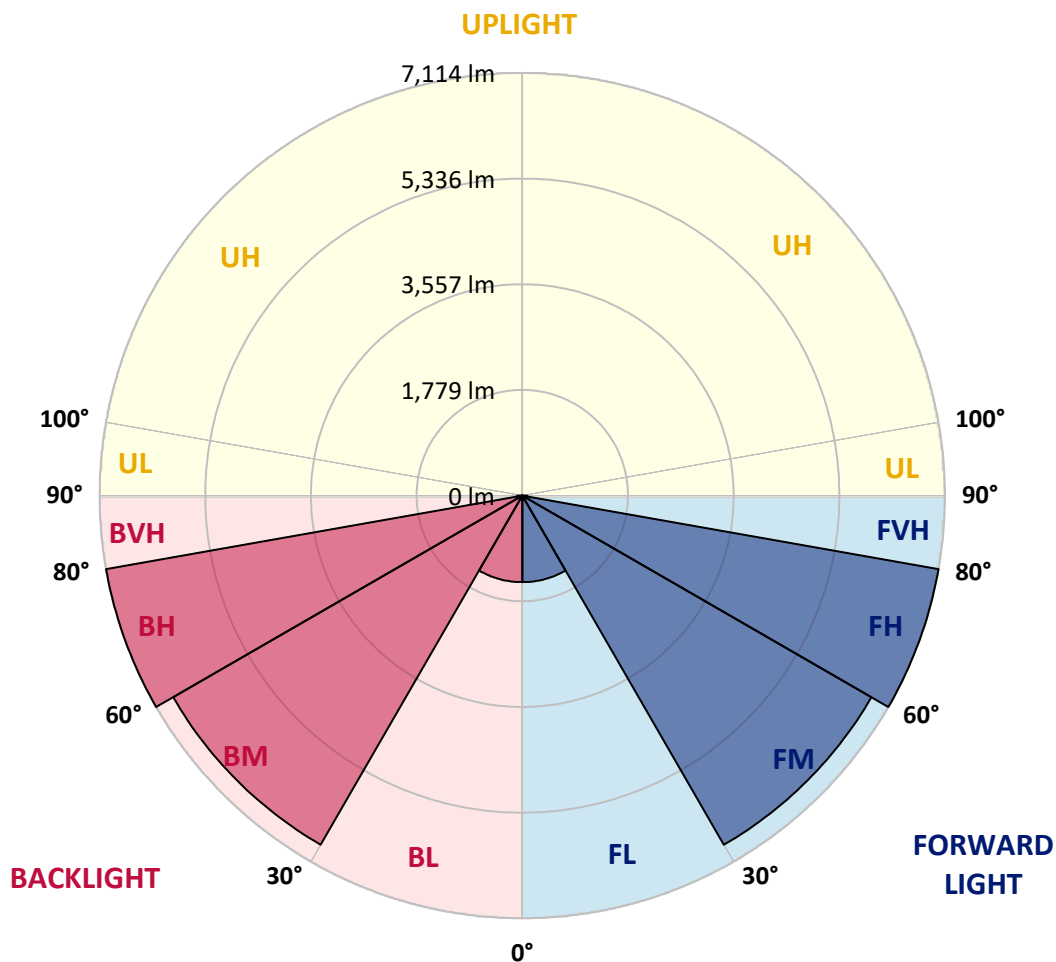
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1455.8	4.7			
FM (30°-60°)	6784.5	22.0			
FH (60°-80°)	7114.5	23.0			G3/7500
FVH (80°-90°)	86.2	0.3			G1/100
BL (0°-30°)	1455.8	4.7	B3/2500		
BM (30°-60°)	6784.5	22.0	B4/8500		
BH (60°-80°)	7114.5	23.0	B5		G3/7500
BVH (80°-90°)	86.2	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°	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3	3429.3
2.5°	3429.3	3432.6	3427.7	3424.4	3422.8	3422.8	3421.2	3422.8	3432.6	3434.2	3429.3
5°	3419.5	3422.8	3421.2	3417.9	3416.3	3416.3	3414.7	3413.0	3421.2	3424.4	3422.8
7.5°	3406.5	3408.1	3406.5	3404.9	3406.5	3404.9	3400.0	3396.7	3403.3	3403.3	3401.6
10°	3383.7	3387.0	3385.4	3387.0	3390.2	3390.2	3383.7	3377.2	3378.8	3375.6	3375.6
12.5°	3356.1	3360.9	3362.6	3369.1	3377.2	3387.0	3372.3	3357.7	3354.4	3352.8	3351.2
15°	3338.2	3343.0	3349.5	3356.1	3370.7	3391.9	3370.7	3347.9	3341.4	3334.9	3331.6
17.5°	3333.3	3339.8	3349.5	3359.3	3378.8	3400.0	3382.1	3359.3	3343.0	3333.3	3330.0
20°	3346.3	3351.2	3365.8	3383.7	3411.4	3432.6	3414.7	3390.2	3365.8	3351.2	3346.3
22.5°	3372.3	3380.5	3398.4	3430.9	3470.0	3500.9	3476.5	3435.8	3396.7	3377.2	3370.7
25°	3429.3	3435.8	3457.0	3500.9	3546.5	3575.8	3549.7	3502.5	3448.8	3422.8	3414.7
27.5°	3515.6	3525.3	3548.1	3600.2	3637.6	3653.9	3636.0	3603.5	3564.4	3536.7	3530.2
30°	3637.6	3649.0	3683.2	3738.5	3763.0	3772.7	3764.6	3743.4	3715.8	3686.5	3679.9
32.5°	3802.0	3808.5	3847.6	3899.7	3922.5	3925.7	3915.9	3906.2	3860.6	3811.8	3808.5
35°	3985.9	3997.3	4044.5	4106.4	4127.5	4129.2	4109.6	4095.0	4041.3	4002.2	4002.2
37.5°	4230.1	4235.0	4280.5	4350.5	4373.3	4366.8	4357.0	4344.0	4287.0	4236.6	4238.2
40°	4516.5	4526.3	4565.3	4646.7	4646.7	4638.6	4645.1	4635.3	4578.4	4529.5	4531.2
42.5°	4856.7	4861.6	4908.8	4995.0	4988.5	4972.2	4978.8	4965.7	4929.9	4874.6	4855.1
45°	5219.6	5239.2	5320.5	5403.5	5390.5	5338.4	5364.5	5361.2	5328.7	5245.7	5250.6
47.5°	5657.5	5690.0	5768.1	5867.4	5852.8	5771.4	5800.7	5820.2	5774.6	5683.5	5667.2
50°	6150.6	6171.8	6287.3	6380.1	6367.1	6280.8	6347.5	6350.8	6236.9	6108.3	6108.3
52.5°	6676.3	6697.5	6853.7	6998.6	7006.7	6881.4	6935.1	6931.8	6746.3	6577.0	6544.5
55°	7265.5	7275.3	7477.1	7690.3	7735.9	7613.8	7620.3	7555.2	7314.3	7117.4	7099.5
57.5°	7874.2	7910.0	8133.0	8409.7	8544.8	8469.9	8435.7	8261.6	8028.8	7802.6	7791.2
60°	8548.0	8549.7	8839.4	9166.5	9439.9	9490.4	9350.4	9117.7	8816.6	8517.1	8504.1
62.5°	9015.1	9085.1	9451.3	10004.7	10494.6	10777.8	10408.3	9920.1	9327.6	8844.2	8795.4
65°	9111.2	9158.4	9716.6	10654.1	11655.1	12265.4	11410.9	10372.5	9361.8	8717.3	8684.7
67.5°	8334.8	8385.3	9137.2	10576.0	12468.9	13720.5	12062.0	10154.4	8782.4	7984.9	7921.4
70°	6446.8	6503.8	7433.1	9309.7	12288.2	14177.8	11598.1	8857.3	7242.7	6381.7	6266.2
72.5°	3427.7	3637.6	4431.9	6389.9	9973.8	12206.8	9509.9	6463.1	4671.1	3818.3	3665.3
75°	1251.6	1277.6	1720.3	2833.6	5802.3	8370.6	6025.3	3082.6	1772.4	1368.8	1298.8
77.5°	517.6	515.9	566.4	856.1	2107.7	4287.0	2351.8	904.9	564.8	522.5	515.9
80°	306.0	306.0	336.9	356.4	555.0	1293.9	620.1	403.6	338.5	309.2	314.1
82.5°	136.7	144.9	213.2	224.6	268.5	354.8	299.5	257.2	221.4	153.0	138.3
85°	74.9	65.1	112.3	117.2	128.6	131.8	141.6	140.0	128.6	74.9	76.5
87.5°	14.6	17.9	32.6	24.4	27.7	24.4	32.6	45.6	47.2	26.0	21.2
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)