

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: P530251

Luminaire Tested: **GALN-SA5C-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20227 lumens  
Efficiency: N/A  
Efficacy: 75.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

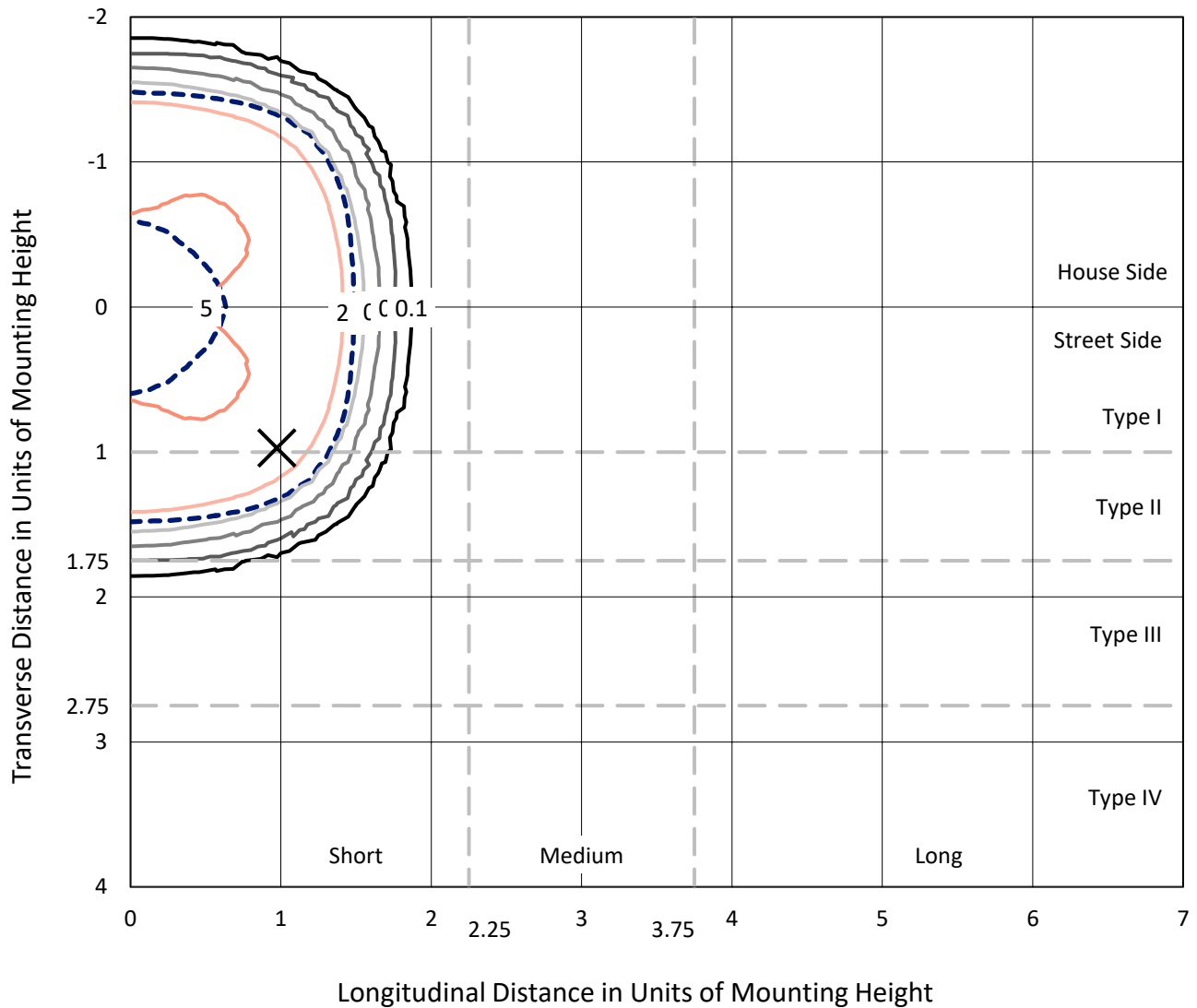
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

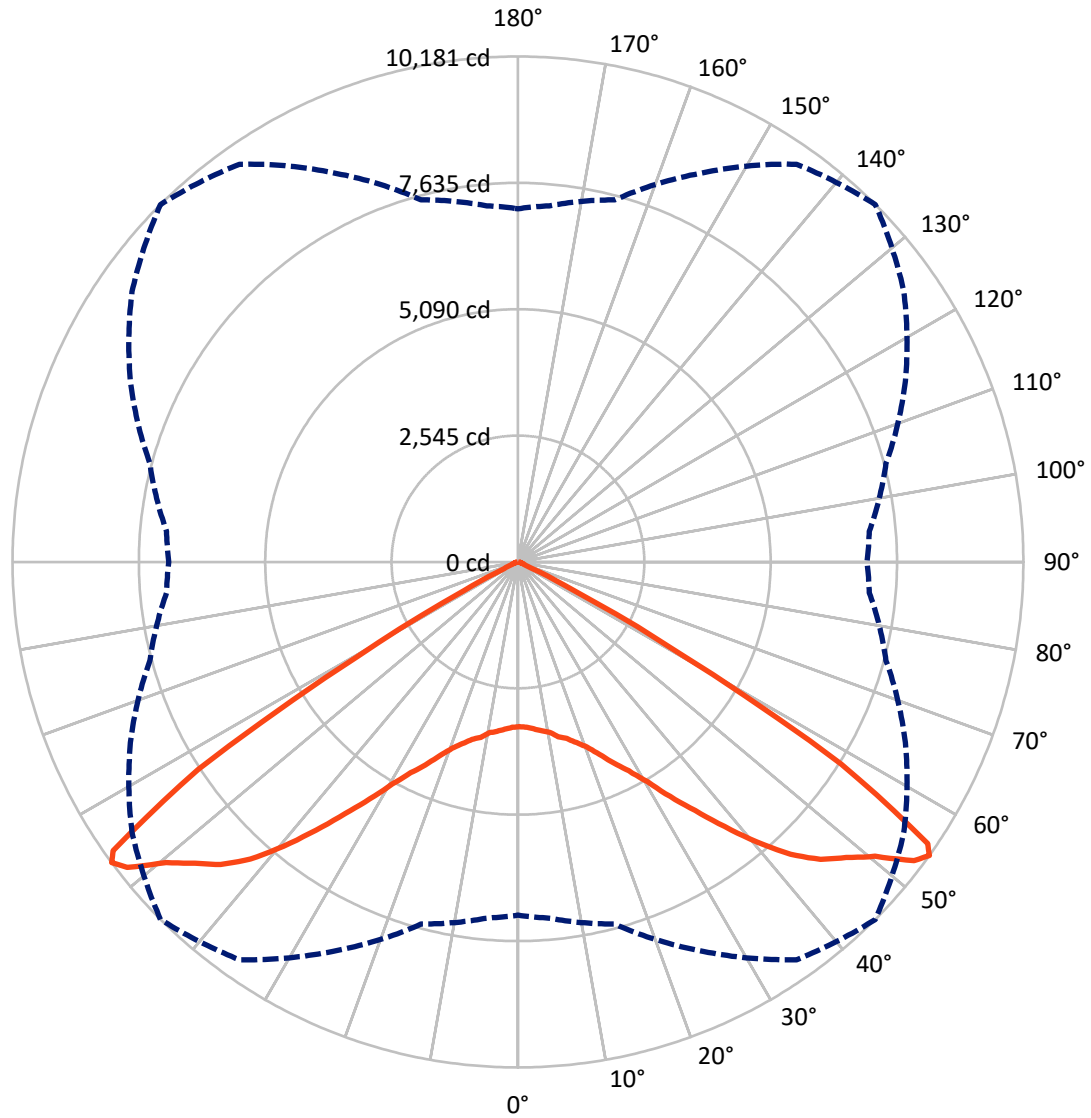
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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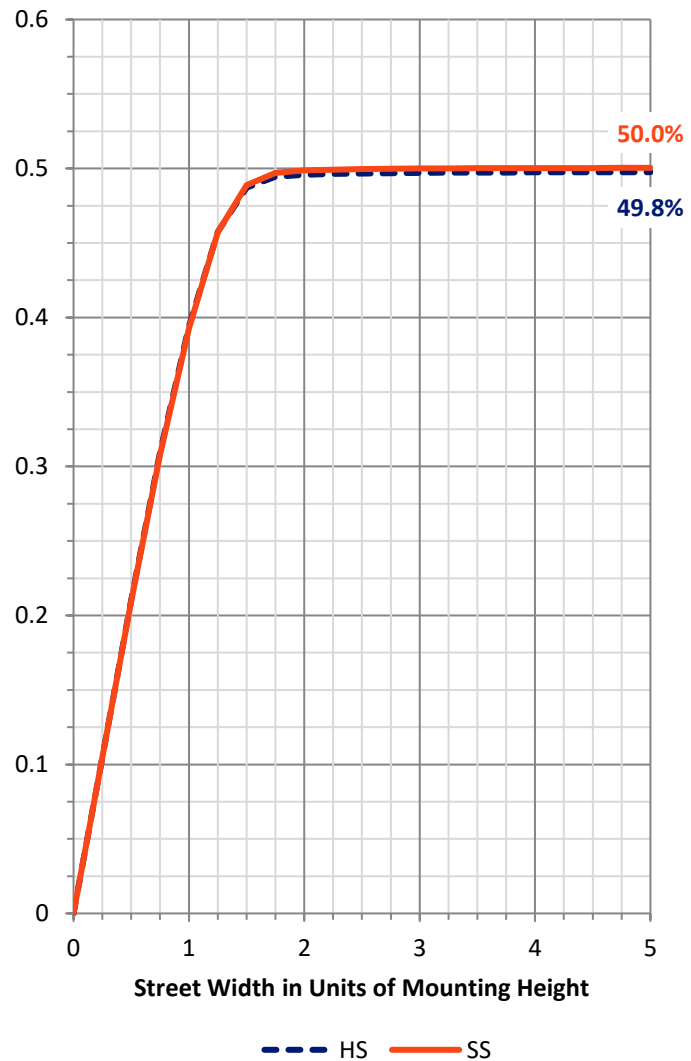
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10113.5	0.0	10113.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10113.5	0.0	10113.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20227.0	0.0	20227.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	324.6	1.6
10°-20°	1051.2	5.2
20°-30°	2060.3	10.2
30°-40°	3704.9	18.3
40°-50°	6342.1	31.4
50°-60°	6136.6	30.3
60°-70°	525.3	2.6
70°-80°	62.3	0.3
80°-90°	19.5	0.1
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°	20227.0	100.0
0°-180°	20227.0	100.0



REPORT NUMBER: P530251

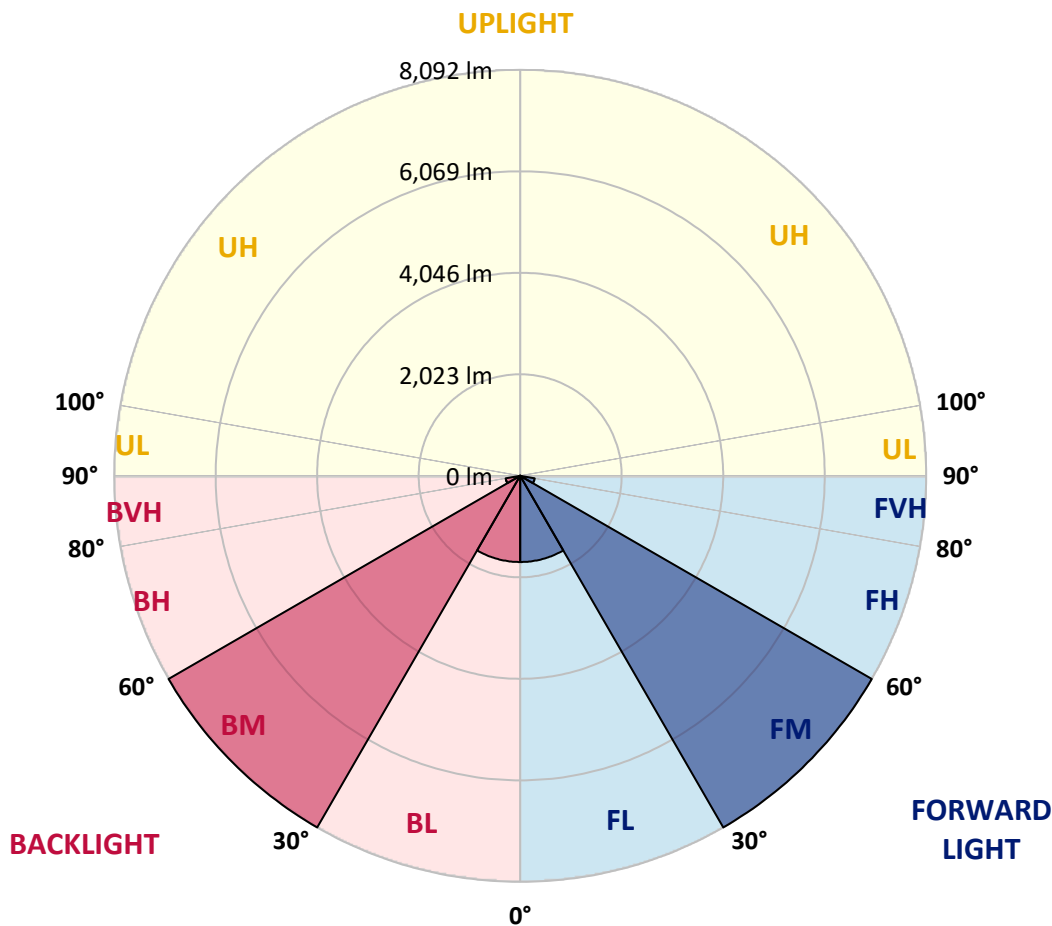
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.1	8.5			
FM (30°-60°)	8091.9	40.0			
FH (60°-80°)	293.8	1.5			G0/660
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	1718.1	8.5	B3/2500		
BM (30°-60°)	8091.9	40.0	B4/8500		
BH (60°-80°)	293.8	1.5	B1/500		G0/660
BVH (80°-90°)	9.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6	3316.6
2.5°	3332.6	3351.8	3339.0	3348.6	3348.6	3332.6	3342.2	3303.8	3329.4	3310.2	3313.4
5°	3383.9	3380.7	3380.7	3383.9	3371.1	3377.5	3364.7	3351.8	3342.2	3329.4	3367.9
7.5°	3448.0	3448.0	3425.5	3432.0	3425.5	3435.2	3409.5	3383.9	3374.3	3364.7	3358.3
10°	3508.9	3502.5	3492.8	3521.7	3499.3	3486.4	3473.6	3457.6	3422.3	3409.5	3396.7
12.5°	3598.6	3595.4	3582.6	3611.4	3598.6	3611.4	3563.3	3521.7	3515.3	3473.6	3496.0
15°	3704.3	3733.2	3710.7	3710.7	3704.3	3688.3	3669.1	3649.9	3592.2	3576.2	3579.4
17.5°	3842.1	3832.5	3835.7	3835.7	3867.8	3826.1	3787.7	3739.6	3710.7	3701.1	3669.1
20°	3973.5	3986.3	3983.1	4005.6	4024.8	3979.9	3938.3	3931.9	3851.7	3864.6	3819.7
22.5°	4204.2	4194.6	4210.6	4226.7	4213.8	4207.4	4169.0	4120.9	4050.4	4018.4	4012.0
25°	4447.8	4431.7	4402.9	4441.4	4460.6	4489.4	4415.7	4390.1	4281.1	4233.1	4236.3
27.5°	4656.1	4678.5	4710.5	4726.6	4774.6	4765.0	4713.7	4630.4	4547.1	4492.6	4457.4
30°	4941.3	4954.1	5008.5	5031.0	5114.3	5136.7	5056.6	4960.5	4813.1	4742.6	4700.9
32.5°	5204.0	5293.7	5290.5	5402.7	5537.3	5630.2	5486.0	5338.6	5191.2	5107.9	5034.2
35°	5630.2	5614.2	5707.1	5825.7	6043.6	6149.3	5992.3	5822.5	5598.2	5463.6	5405.9
37.5°	6027.6	6034.0	6158.9	6348.0	6597.9	6761.4	6623.6	6344.8	6114.1	5941.0	5860.9
40°	6604.4	6617.2	6745.4	6960.0	7242.0	7418.3	7258.1	6976.1	6668.4	6533.9	6533.9
42.5°	7280.5	7335.0	7418.3	7604.1	7857.3	8052.8	7908.6	7687.5	7376.6	7203.6	7229.2
45°	7975.9	8001.5	8056.0	8331.6	8450.1	8546.2	8411.7	8309.1	8100.8	7889.3	7854.1
47.5°	8626.4	8636.0	8796.2	8882.7	8975.6	8895.5	8982.1	8847.5	8613.5	8408.5	8366.8
50°	8914.8	8898.7	9126.3	9389.0	9459.5	9318.5	9244.8	9155.1	8799.4	8552.7	8443.7
52.5°	8075.2	8168.1	8591.1	9321.7	9872.9	9991.5	9562.1	9148.7	8485.4	8004.7	7931.0
54°	7113.9	7200.4	7549.7	8632.8	9780.0	10180.5	9488.4	8610.3	7674.6	7104.2	7030.5
55°	6162.1	6066.0	6700.5	7806.0	9344.2	10013.9	9196.7	7915.0	6844.7	6322.4	6219.8
57.5°	3335.8	3351.8	3887.0	4931.6	6565.9	7677.8	6780.6	5354.6	4044.0	3457.6	3406.3
60°	1057.5	1083.1	1317.0	1993.2	3137.1	3746.0	3210.9	2150.2	1486.9	1192.1	1144.0
62.5°	330.1	342.9	374.9	557.6	858.8	1227.3	961.3	576.8	429.4	394.1	400.6
65°	201.9	201.9	205.1	217.9	256.4	298.0	288.4	253.2	243.5	237.1	233.9
67.5°	131.4	128.2	134.6	144.2	150.6	153.8	163.4	173.0	169.8	163.4	163.4
70°	80.1	76.9	83.3	96.1	99.3	105.7	115.4	128.2	125.0	118.6	121.8
72.5°	44.9	44.9	48.1	57.7	67.3	73.7	83.3	92.9	96.1	92.9	92.9
75°	16.0	19.2	25.6	35.2	41.7	51.3	60.9	70.5	80.1	73.7	70.5
77.5°	6.4	6.4	12.8	22.4	32.0	41.7	57.7	67.3	73.7	67.3	60.9
80°	3.2	3.2	9.6	19.2	28.8	38.5	48.1	57.7	60.9	54.5	48.1
82.5°	3.2	3.2	9.6	19.2	28.8	35.2	51.3	57.7	64.1	57.7	48.1
85°	0.0	3.2	9.6	19.2	25.6	28.8	28.8	19.2	16.0	9.6	9.6
87.5°	0.0	0.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)