

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: P456222

Luminaire Tested: **GALN-SA7C-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456222  
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-SA7C-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 42952 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

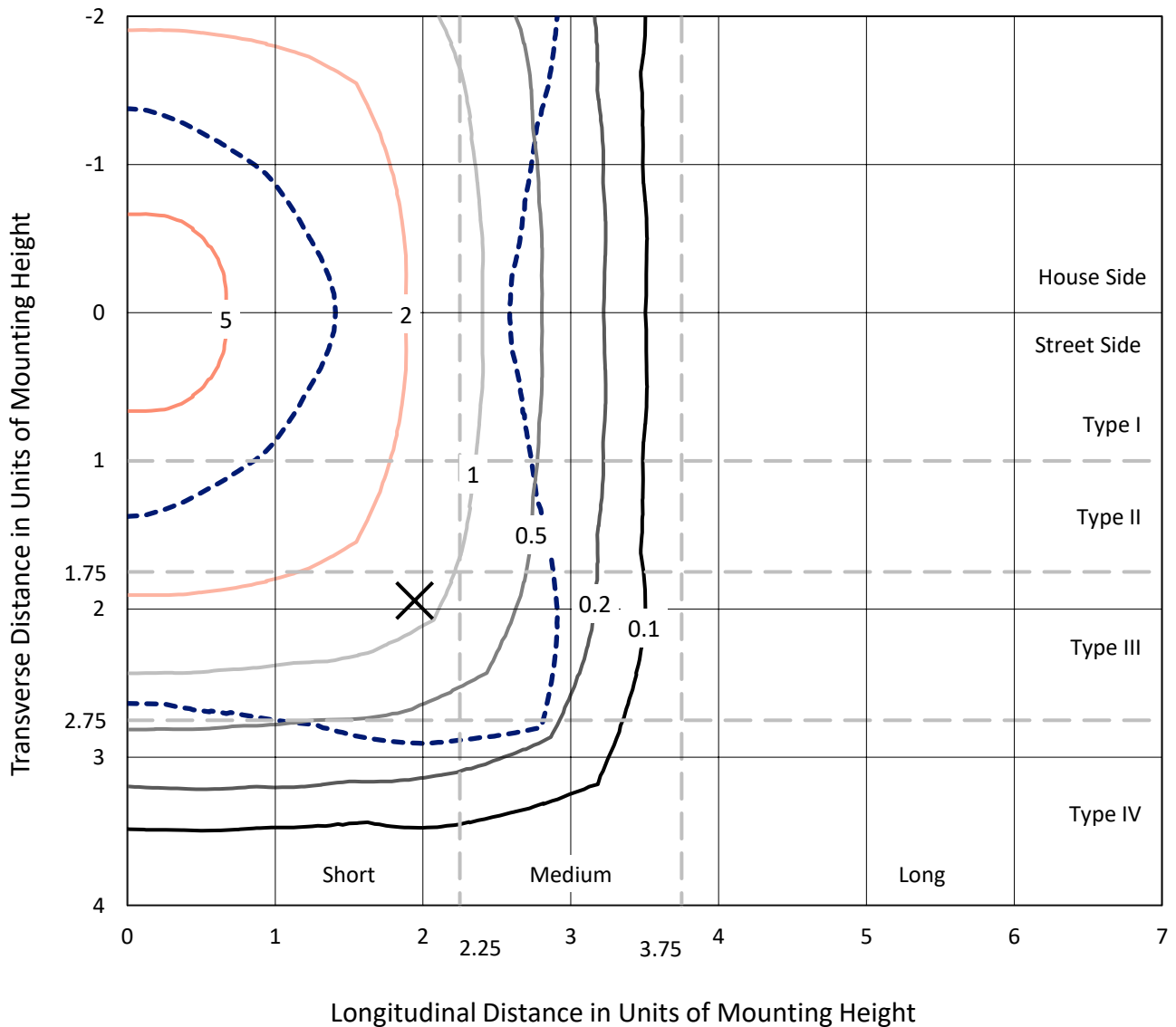
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

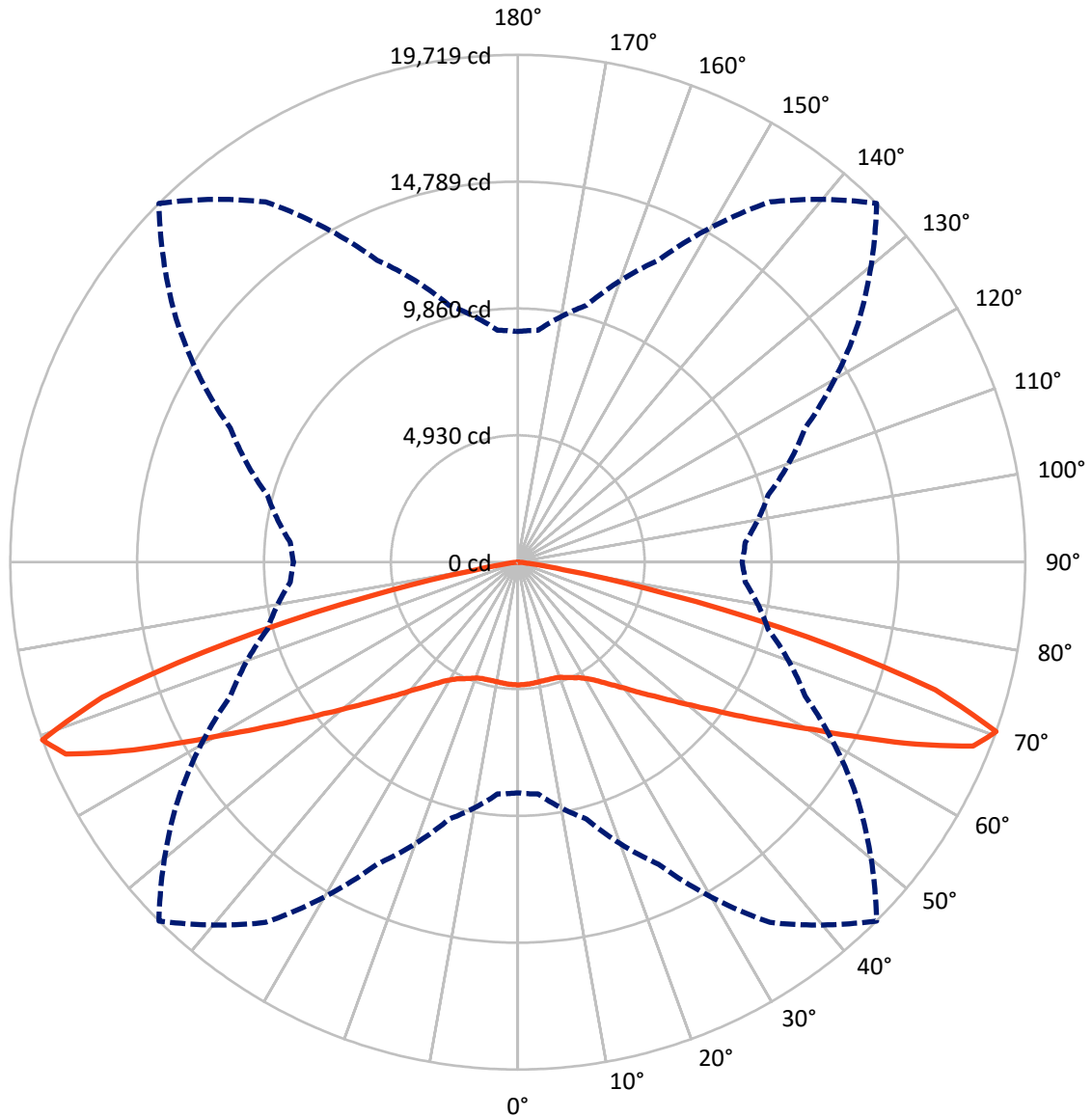
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	21476.0	0.0	21476.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21476.0	0.0	21476.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	42952.0	0.0	42952.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	452.3	1.1
10°-20°	1327.2	3.1
20°-30°	2270.0	5.3
30°-40°	3602.9	8.4
40°-50°	5812.5	13.5
50°-60°	9457.0	22.0
60°-70°	13709.3	31.9
70°-80°	6081.0	14.2
80°-90°	239.8	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°	42952.0	100.0
0°-180°	42952.0	100.0

**Coefficient of Utilization**



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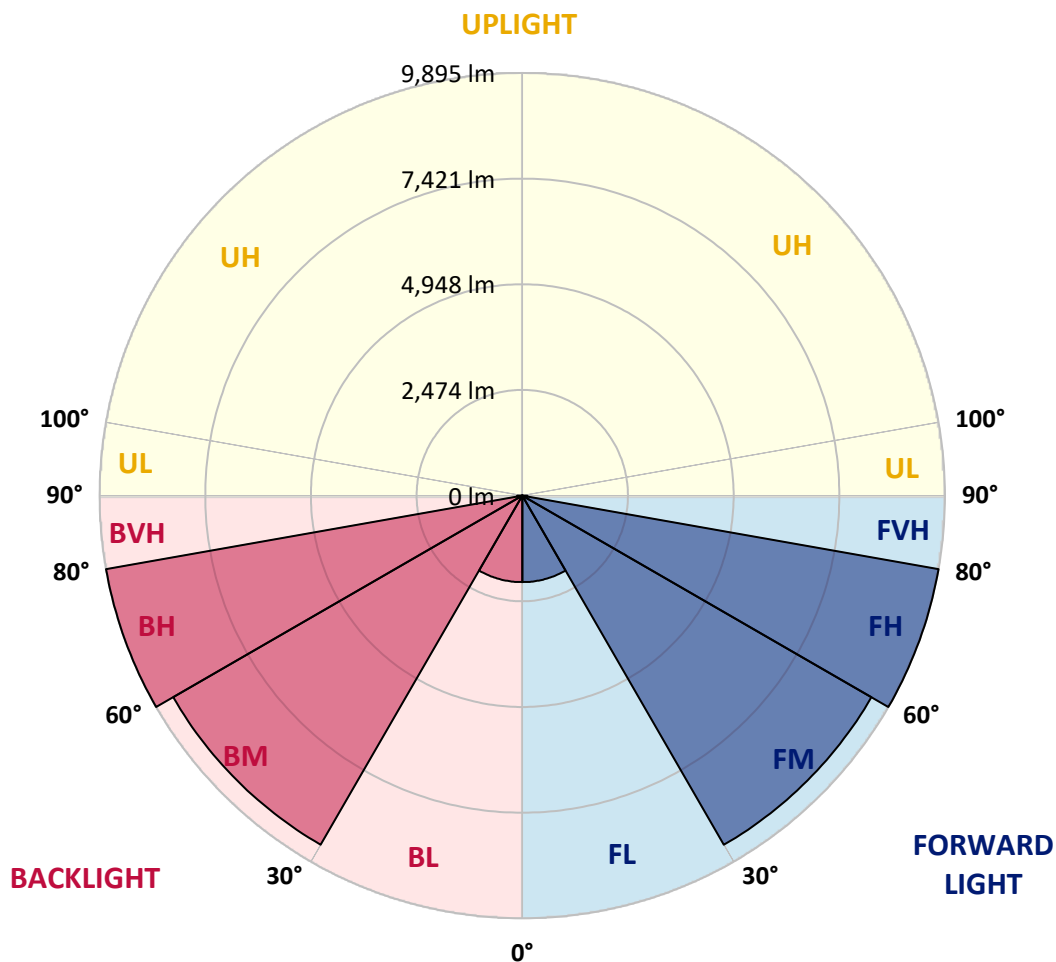
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.7	4.7			
FM (30°-60°)	9436.2	22.0			
FH (60°-80°)	9895.1	23.0			G4/12000
FVH (80°-90°)	119.9	0.3			G2/225
BL (0°-30°)	2024.7	4.7	B3/2500		
BM (30°-60°)	9436.2	22.0	B5		
BH (60°-80°)	9895.1	23.0	B5		G4/12000
BVH (80°-90°)	119.9	0.3			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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6	4769.6
2.5°	4769.6	4774.1	4767.4	4762.8	4760.6	4760.6	4758.3	4760.6	4774.1	4776.4	4769.6
5°	4756.0	4760.6	4758.3	4753.8	4751.5	4751.5	4749.2	4747.0	4758.3	4762.8	4760.6
7.5°	4737.9	4740.2	4737.9	4735.7	4737.9	4735.7	4728.9	4724.3	4733.4	4733.4	4731.1
10°	4706.2	4710.8	4708.5	4710.8	4715.3	4715.3	4706.2	4697.2	4699.4	4694.9	4694.9
12.5°	4667.8	4674.5	4676.8	4685.9	4697.2	4710.8	4690.4	4670.0	4665.5	4663.2	4661.0
15°	4642.8	4649.6	4658.7	4667.8	4688.1	4717.6	4688.1	4656.4	4647.4	4638.3	4633.8
17.5°	4636.1	4645.1	4658.7	4672.3	4699.4	4728.9	4704.0	4672.3	4649.6	4636.1	4631.5
20°	4654.2	4661.0	4681.3	4706.2	4744.7	4774.1	4749.2	4715.3	4681.3	4661.0	4654.2
22.5°	4690.4	4701.7	4726.6	4771.9	4826.2	4869.2	4835.3	4778.7	4724.3	4697.2	4688.1
25°	4769.6	4778.7	4808.1	4869.2	4932.6	4973.4	4937.1	4871.5	4796.8	4760.6	4749.2
27.5°	4889.6	4903.2	4934.9	5007.3	5059.4	5082.0	5057.1	5011.8	4957.5	4919.0	4910.0
30°	5059.4	5075.2	5122.8	5199.7	5233.7	5247.3	5235.9	5206.5	5168.0	5127.3	5118.2
32.5°	5288.0	5297.1	5351.4	5423.8	5455.5	5460.0	5446.5	5432.9	5369.5	5301.6	5297.1
35°	5543.8	5559.6	5625.3	5711.3	5740.7	5743.0	5715.8	5695.5	5620.8	5566.4	5566.4
37.5°	5883.4	5890.1	5953.5	6050.9	6082.6	6073.5	6059.9	6041.8	5962.6	5892.4	5894.7
40°	6281.8	6295.4	6349.7	6462.9	6462.9	6451.5	6460.6	6447.0	6367.8	6299.9	6302.1
42.5°	6754.9	6761.7	6827.3	6947.3	6938.2	6915.6	6924.7	6906.6	6856.7	6779.8	6752.6
45°	7259.7	7286.9	7400.0	7515.5	7497.4	7424.9	7461.2	7456.6	7411.4	7295.9	7302.7
47.5°	7868.6	7913.9	8022.6	8160.6	8140.3	8027.1	8067.8	8095.0	8031.6	7904.8	7882.2
50°	8554.5	8584.0	8744.7	8873.7	8855.6	8735.6	8828.4	8833.0	8674.5	8495.7	8495.7
52.5°	9285.7	9315.1	9532.4	9733.9	9745.2	9570.9	9645.6	9641.1	9383.0	9147.6	9102.3
55°	10105.2	10118.7	10399.4	10696.0	10759.4	10589.6	10598.6	10508.1	10173.1	9899.2	9874.3
57.5°	10951.8	11001.6	11311.7	11696.5	11884.4	11780.3	11732.8	11490.5	11166.8	10852.2	10836.3
60°	11889.0	11891.2	12294.2	12749.2	13129.5	13199.6	13005.0	12681.3	12262.5	11845.9	11827.8
62.5°	12538.6	12636.0	13145.3	13915.0	14596.3	14990.2	14476.4	13797.3	12973.3	12300.9	12233.0
65°	12672.2	12737.8	13514.3	14818.2	16210.4	17059.2	15870.8	14426.6	13020.8	12124.4	12079.1
67.5°	11592.4	11662.6	12708.4	14709.5	17342.2	19083.0	16776.3	14123.2	12214.9	11105.7	11017.4
70°	8966.5	9045.7	10338.3	12948.4	17090.9	19719.1	16131.1	12319.1	10073.5	8876.0	8715.2
72.5°	4767.4	5059.4	6164.1	8887.3	13872.0	16977.8	13226.8	8989.2	6496.8	5310.6	5097.9
75°	1740.8	1777.0	2392.7	3941.1	8070.1	11642.2	8380.2	4287.4	2465.2	1903.8	1806.4
77.5°	719.9	717.6	787.8	1190.7	2931.5	5962.6	3271.0	1258.6	785.5	726.6	717.6
80°	425.6	425.6	468.6	495.8	771.9	1799.6	862.5	561.4	470.8	430.1	436.9
82.5°	190.2	201.5	296.5	312.4	373.5	493.5	416.5	357.7	307.9	212.8	192.4
85°	104.1	90.5	156.2	163.0	178.8	183.4	196.9	194.7	178.8	104.1	106.4
87.5°	20.4	24.9	45.3	34.0	38.5	34.0	45.3	63.4	65.6	36.2	29.4
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)