

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: P456470

Luminaire Tested: **GALN-SA7D-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456470  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44983 lumens  
Efficiency: N/A  
Efficacy: 103.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

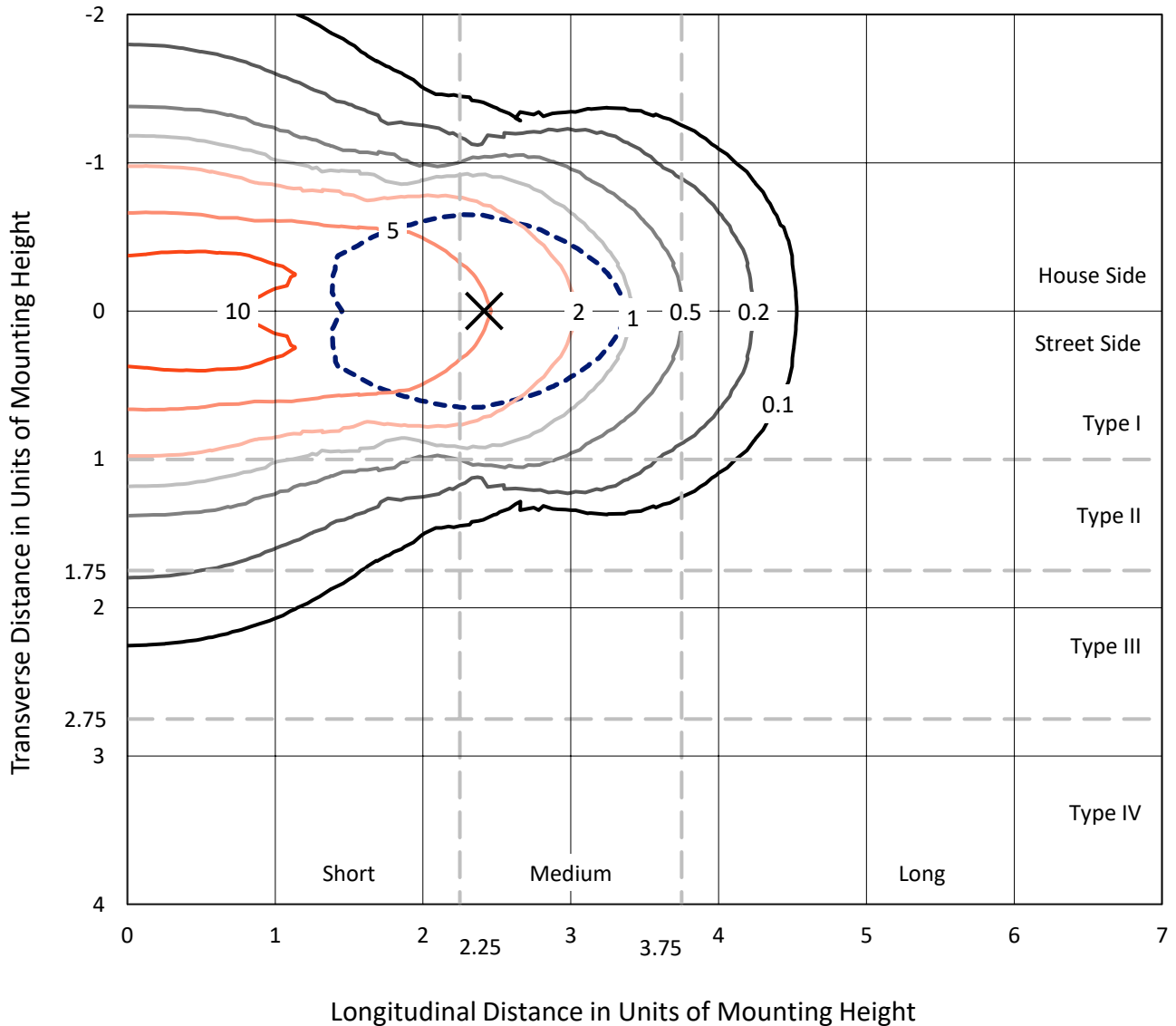
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

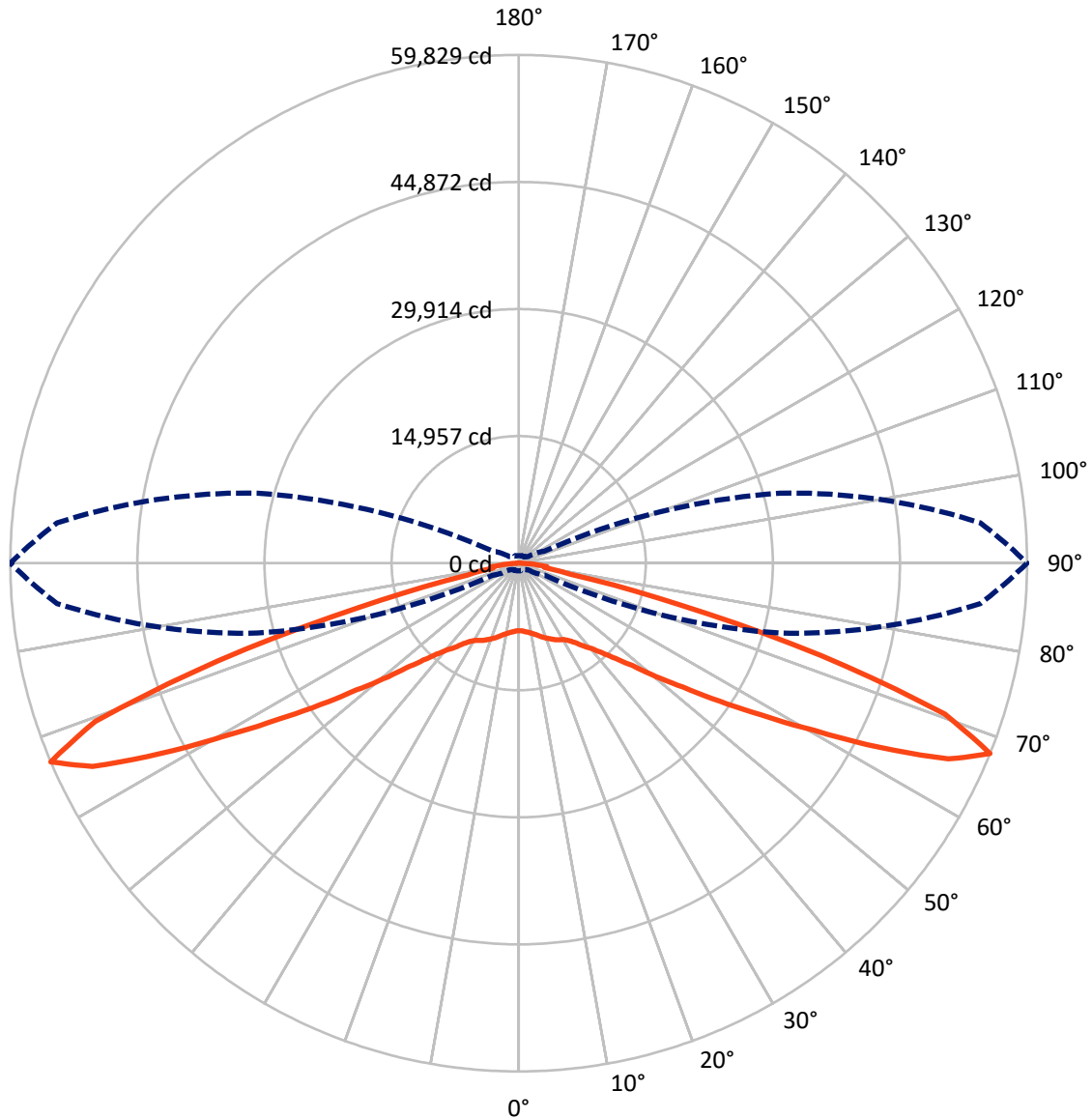
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22491.5	0.0	22491.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22491.5	0.0	22491.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	44983.0	0.0	44983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	793.9	1.8
10°-20°	2540.2	5.6
20°-30°	4251.7	9.5
30°-40°	5759.9	12.8
40°-50°	7295.8	16.2
50°-60°	9114.3	20.3
60°-70°	10713.5	23.8
70°-80°	4098.4	9.1
80°-90°	415.2	0.9
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°	44983.0	100.0
0°-180°	44983.0	100.0

**Coefficient of Utilization**



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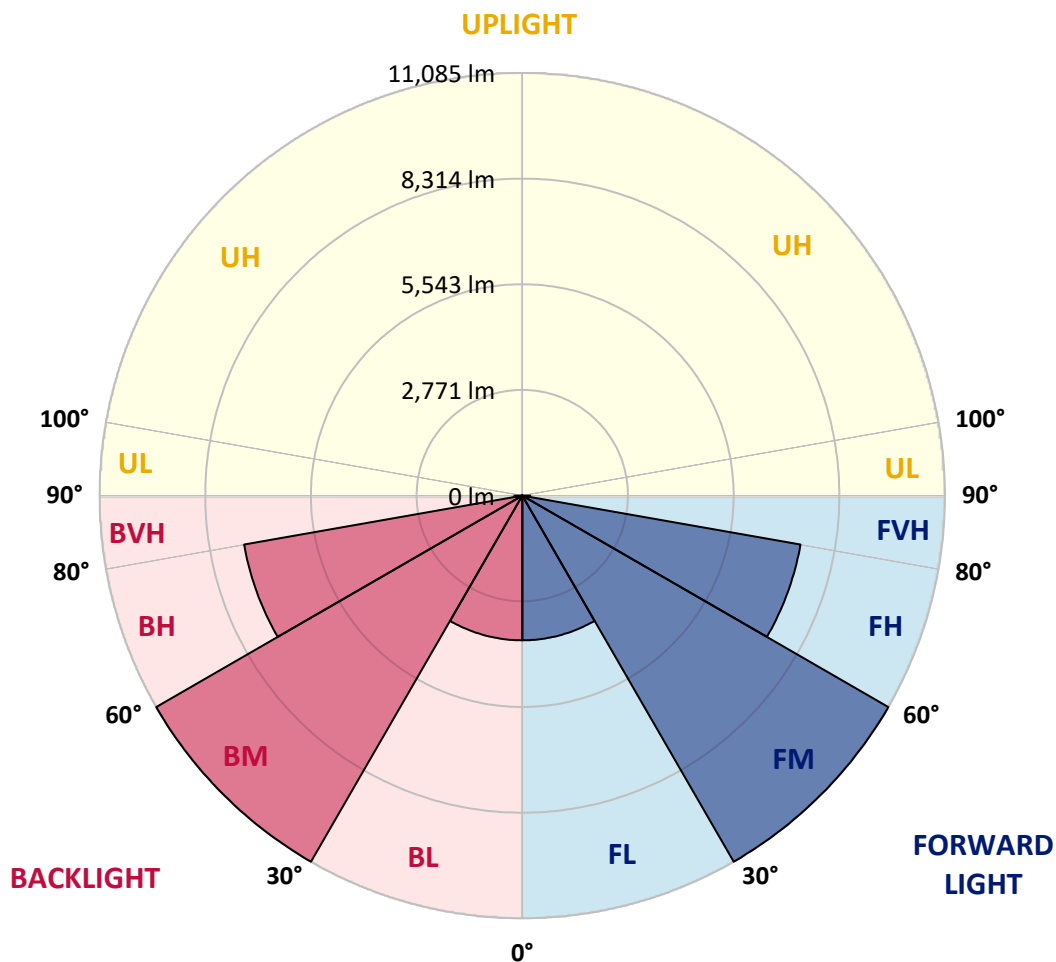
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3792.9	8.4			
FM (30°-60°)	11085.0	24.6			
FH (60°-80°)	7406.0	16.5			G3/7500
FVH (80°-90°)	207.6	0.5			G2/225
BL (0°-30°)	3792.9	8.4	B4/5000		
BM (30°-60°)	11085.0	24.6	B5		
BH (60°-80°)	7406.0	16.5	B5		G5
BVH (80°-90°)	207.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4	7963.4
2.5°	8065.5	8060.5	8063.0	8060.5	8068.0	8063.0	8033.1	8008.2	7988.3	7990.8	7983.3
5°	8237.4	8239.9	8242.4	8229.9	8247.4	8237.4	8190.1	8150.2	8110.4	8095.4	8090.4
7.5°	8379.4	8391.8	8399.3	8411.8	8441.6	8441.6	8416.7	8359.4	8272.3	8222.4	8220.0
10°	8521.4	8531.3	8553.7	8593.6	8643.4	8690.7	8680.8	8603.6	8491.5	8406.8	8386.8
12.5°	8571.2	8583.6	8658.4	8772.9	8885.0	8977.2	8977.2	8914.9	8770.4	8640.9	8603.6
15°	8396.8	8419.2	8553.7	8797.8	9091.8	9293.5	9338.4	9251.2	9096.7	8897.5	8852.6
17.5°	8050.6	8105.4	8302.2	8663.3	9151.5	9570.0	9699.5	9657.2	9457.9	9203.9	9151.5
20°	7679.4	7739.2	7948.4	8426.7	9101.7	9731.9	10108.1	10118.0	9871.4	9502.8	9425.5
22.5°	7270.9	7315.8	7584.8	8145.2	8952.3	9769.3	10459.3	10631.1	10297.4	9801.7	9692.1
25°	6812.6	6862.4	7143.9	7749.2	8670.8	9726.9	10780.6	11159.2	10743.2	10120.5	9981.0
27.5°	6374.2	6394.1	6695.5	7310.8	8299.7	9617.3	11017.2	11644.9	11236.4	10384.5	10207.7
30°	5953.2	6000.6	6267.1	6874.9	7873.7	9403.1	11221.5	12197.9	11767.0	10661.0	10434.4
32.5°	5507.4	5564.7	5853.6	6468.9	7447.8	9081.8	11346.0	12803.2	12506.8	11109.4	10867.8
35°	5078.9	5116.3	5407.7	6005.5	7031.8	8708.2	11368.4	13485.7	13460.8	11789.4	11468.1
37.5°	4640.5	4695.3	4989.3	5562.2	6590.9	8312.1	11256.4	14210.6	14611.6	12733.5	12387.2
40°	4219.6	4266.9	4555.8	5133.7	6090.2	7828.9	10989.8	14873.1	15954.2	13704.9	13214.2
42.5°	3761.3	3773.7	4090.0	4677.9	5599.5	7268.4	10606.2	15463.5	17451.2	15007.6	14397.4
45°	3240.7	3273.0	3567.0	4144.8	5036.6	6640.7	10085.6	15951.7	19349.3	16813.5	15981.6
47.5°	2720.1	2747.5	3016.5	3586.9	4421.3	5920.9	9283.6	16380.1	21297.2	19107.7	18016.6
50°	2211.9	2226.9	2446.1	2951.7	3728.9	5163.6	8289.7	16517.1	23499.1	22355.8	20963.4
52.5°	1748.6	1771.0	1937.9	2334.0	2989.1	4269.4	7216.1	16178.4	26069.7	26206.7	24243.9
55°	1417.3	1424.8	1549.3	1840.8	2336.5	3332.8	5920.9	15234.3	28834.6	31141.2	28637.8
57.5°	1220.5	1225.5	1295.3	1457.2	1798.4	2513.3	4593.2	13448.3	31318.0	36922.5	33704.3
60°	1108.4	1110.9	1150.8	1245.4	1424.8	1928.0	3290.5	10927.6	33769.1	43356.5	40001.3
62.5°	1038.7	1038.7	1066.1	1118.4	1205.6	1479.6	2383.8	7883.7	35447.9	49885.2	47762.9
65°	971.4	971.4	991.4	1028.7	1076.1	1210.6	1761.1	5141.2	35405.6	54640.3	55569.4
67.5°	894.2	894.2	909.2	946.5	973.9	1041.2	1360.0	3367.7	31803.7	54535.7	59828.8
70°	802.1	802.1	822.0	854.4	876.8	919.1	1073.6	2304.1	23364.6	46564.8	53208.0
72.5°	709.9	712.4	724.9	757.2	774.7	799.6	891.7	1614.1	14332.6	31706.6	37204.0
75°	607.8	612.8	625.2	657.6	672.5	682.5	752.3	1150.8	7251.0	17095.0	19463.9
77.5°	490.7	500.7	508.1	543.0	553.0	567.9	620.2	832.0	3183.4	6142.5	6197.3
80°	358.7	371.1	393.6	425.9	433.4	443.4	473.3	590.3	1442.2	2804.7	3046.4
82.5°	264.0	281.5	254.1	296.4	296.4	284.0	333.8	396.1	662.6	2777.3	3322.9
85°	144.5	147.0	132.0	151.9	161.9	159.4	176.9	194.3	321.3	1853.2	1910.5
87.5°	34.9	37.4	39.9	47.3	57.3	57.3	62.3	54.8	104.6	600.3	343.7
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)