

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: P456702

Luminaire Tested: **GALN-SA8A-727-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456702  
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-SA8A-727-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30829 lumens  
Efficiency: N/A  
Efficacy: 126.3 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

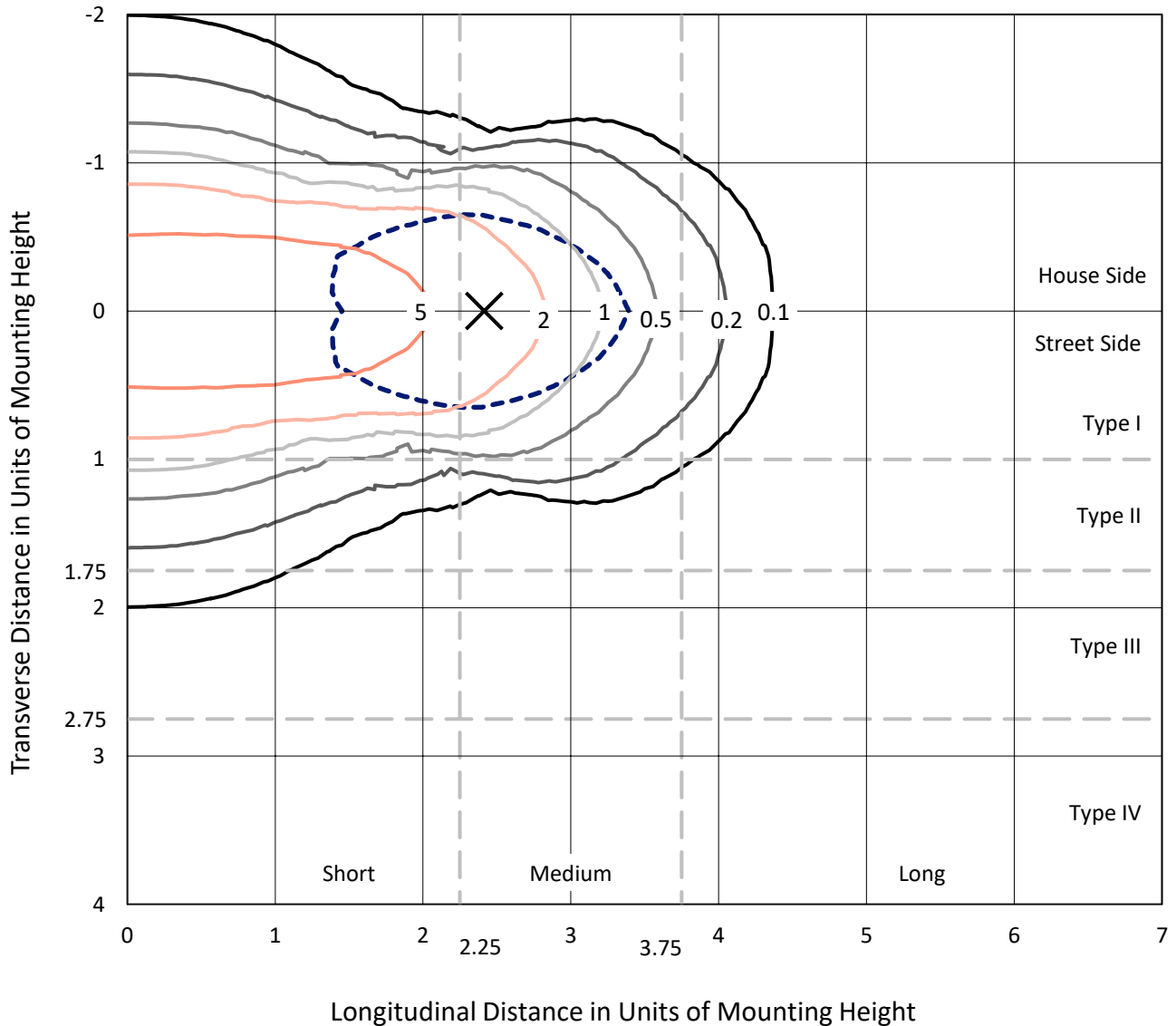
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

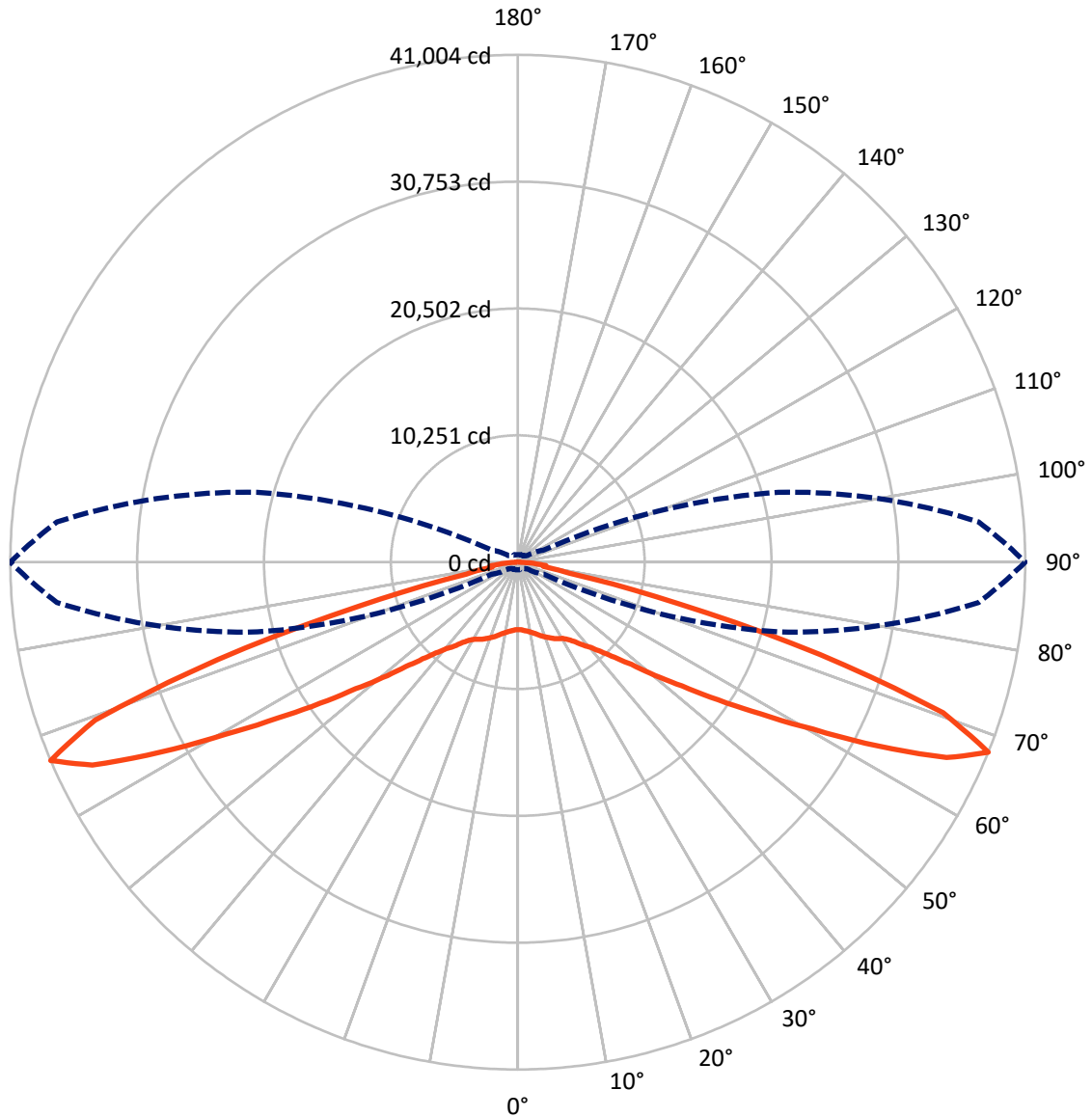
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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	15414.5	0.0	15414.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15414.5	0.0	15414.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30829.0	0.0	30829.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	544.1	1.8
10°-20°	1740.9	5.6
20°-30°	2913.9	9.5
30°-40°	3947.5	12.8
40°-50°	5000.2	16.2
50°-60°	6246.5	20.3
60°-70°	7342.5	23.8
70°-80°	2808.8	9.1
80°-90°	284.6	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°	30829.0	100.0
0°-180°	30829.0	100.0



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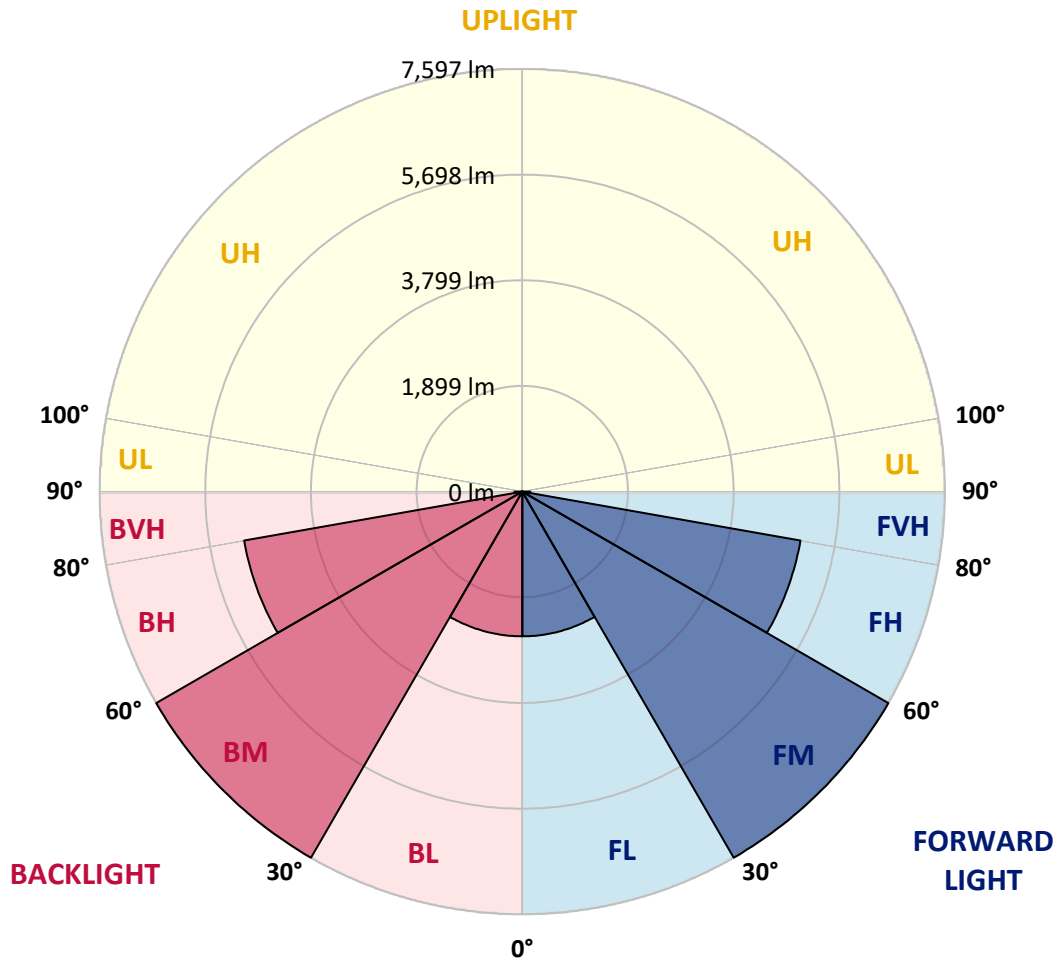
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2599.5	8.4			
FM	(30°-60°)	7597.1	24.6			
FH	(60°-80°)	5075.7	16.5			G3/7500
FVH	(80°-90°)	142.3	0.5			G2/225
BL	(0°-30°)	2599.5	8.4	B4/5000		
BM	(30°-60°)	7597.1	24.6	B4/8500		
BH	(60°-80°)	5075.7	16.5	B5		G5
BVH	(80°-90°)	142.3	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°	5457.7	5457.7	5457.7	5457.7	5457.7	5457.7	5457.7	5457.7	5457.7	5457.7	5457.7
2.5°	5527.7	5524.3	5526.0	5524.3	5529.4	5526.0	5505.5	5488.4	5474.8	5476.5	5471.3
5°	5645.5	5647.2	5648.9	5640.4	5652.3	5645.5	5613.0	5585.7	5558.4	5548.2	5544.8
7.5°	5742.8	5751.3	5756.4	5765.0	5785.5	5785.5	5768.4	5729.1	5669.4	5635.2	5633.5
10°	5840.1	5846.9	5862.3	5889.6	5923.7	5956.2	5949.3	5896.4	5819.6	5761.6	5747.9
12.5°	5874.2	5882.8	5934.0	6012.5	6089.3	6152.5	6152.5	6109.8	6010.8	5922.0	5896.4
15°	5754.7	5770.1	5862.3	6029.6	6231.0	6369.3	6400.0	6340.3	6234.4	6097.9	6067.1
17.5°	5517.4	5555.0	5689.9	5937.4	6272.0	6558.8	6647.6	6618.5	6482.0	6307.8	6272.0
20°	5263.1	5304.1	5447.5	5775.2	6237.9	6669.8	6927.5	6934.4	6765.4	6512.7	6459.8
22.5°	4983.1	5013.8	5198.2	5582.3	6135.4	6695.4	7168.2	7286.0	7057.3	6717.6	6642.4
25°	4669.0	4703.1	4896.0	5310.9	5942.5	6666.3	7388.5	7647.9	7362.8	6936.1	6840.5
27.5°	4368.5	4382.2	4588.8	5010.4	5688.2	6591.2	7550.6	7980.8	7700.9	7117.0	6995.8
30°	4080.0	4112.5	4295.1	4711.7	5396.2	6444.4	7690.6	8359.8	8064.5	7306.5	7151.2
32.5°	3774.5	3813.7	4011.8	4433.4	5104.3	6224.2	7776.0	8774.6	8571.5	7613.8	7448.2
35°	3480.8	3506.4	3706.2	4115.9	4819.2	5968.1	7791.3	9242.4	9225.3	8079.8	7859.6
37.5°	3180.4	3217.9	3419.4	3812.0	4517.1	5696.7	7714.5	9739.2	10014.0	8726.8	8489.6
40°	2891.9	2924.3	3122.3	3518.4	4173.9	5365.5	7531.9	10193.3	10934.2	9392.6	9056.3
42.5°	2577.8	2586.3	2803.1	3206.0	3837.6	4981.4	7269.0	10597.9	11960.1	10285.5	9867.2
45°	2221.0	2243.2	2444.6	2840.7	3451.8	4551.2	6912.2	10932.5	13261.0	11523.1	10952.9
47.5°	1864.2	1883.0	2067.3	2458.3	3030.2	4057.8	6362.5	11226.1	14596.0	13095.4	12347.7
50°	1515.9	1526.2	1676.4	2022.9	2555.6	3538.9	5681.3	11320.0	16105.1	15321.5	14367.2
52.5°	1198.4	1213.8	1328.1	1599.6	2048.6	2926.0	4945.6	11087.8	17866.8	17960.7	16615.5
55°	971.4	976.5	1061.8	1261.6	1601.3	2284.1	4057.8	10440.8	19761.7	21342.5	19626.9
57.5°	836.5	839.9	887.7	998.7	1232.5	1722.5	3147.9	9216.8	21463.7	25304.8	23099.2
60°	759.7	761.4	788.7	853.6	976.5	1321.3	2255.1	7489.2	23143.6	29714.3	27414.8
62.5°	711.9	711.9	730.7	766.5	826.3	1014.0	1633.7	5403.1	24294.2	34188.7	32734.2
65°	665.8	665.8	679.4	705.0	737.5	829.7	1206.9	3523.5	24265.1	37447.6	38084.4
67.5°	612.9	612.9	623.1	648.7	667.5	713.6	932.1	2308.0	21796.6	37375.9	41003.5
70°	549.7	549.7	563.4	585.5	600.9	629.9	735.8	1579.1	16012.9	31913.1	36466.0
72.5°	486.5	488.2	496.8	519.0	530.9	548.0	611.2	1106.2	9822.8	21730.1	25497.7
75°	416.5	420.0	428.5	450.7	460.9	467.8	515.6	788.7	4969.5	11716.0	13339.5
77.5°	336.3	343.1	348.3	372.2	379.0	389.2	425.1	570.2	2181.7	4209.8	4247.3
80°	245.8	254.4	269.7	291.9	297.0	303.9	324.4	404.6	988.4	1922.2	2087.8
82.5°	181.0	192.9	174.1	203.1	203.1	194.6	228.8	271.4	454.1	1903.4	2277.3
85°	99.0	100.7	90.5	104.1	111.0	109.3	121.2	133.2	220.2	1270.1	1309.4
87.5°	23.9	25.6	27.3	32.4	39.3	39.3	42.7	37.6	71.7	411.4	235.6
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)