

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: P454835

Luminaire Tested: **GALN-SA6A-727-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454835  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23399 lumens  
Efficiency: N/A  
Efficacy: 128.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 182  
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

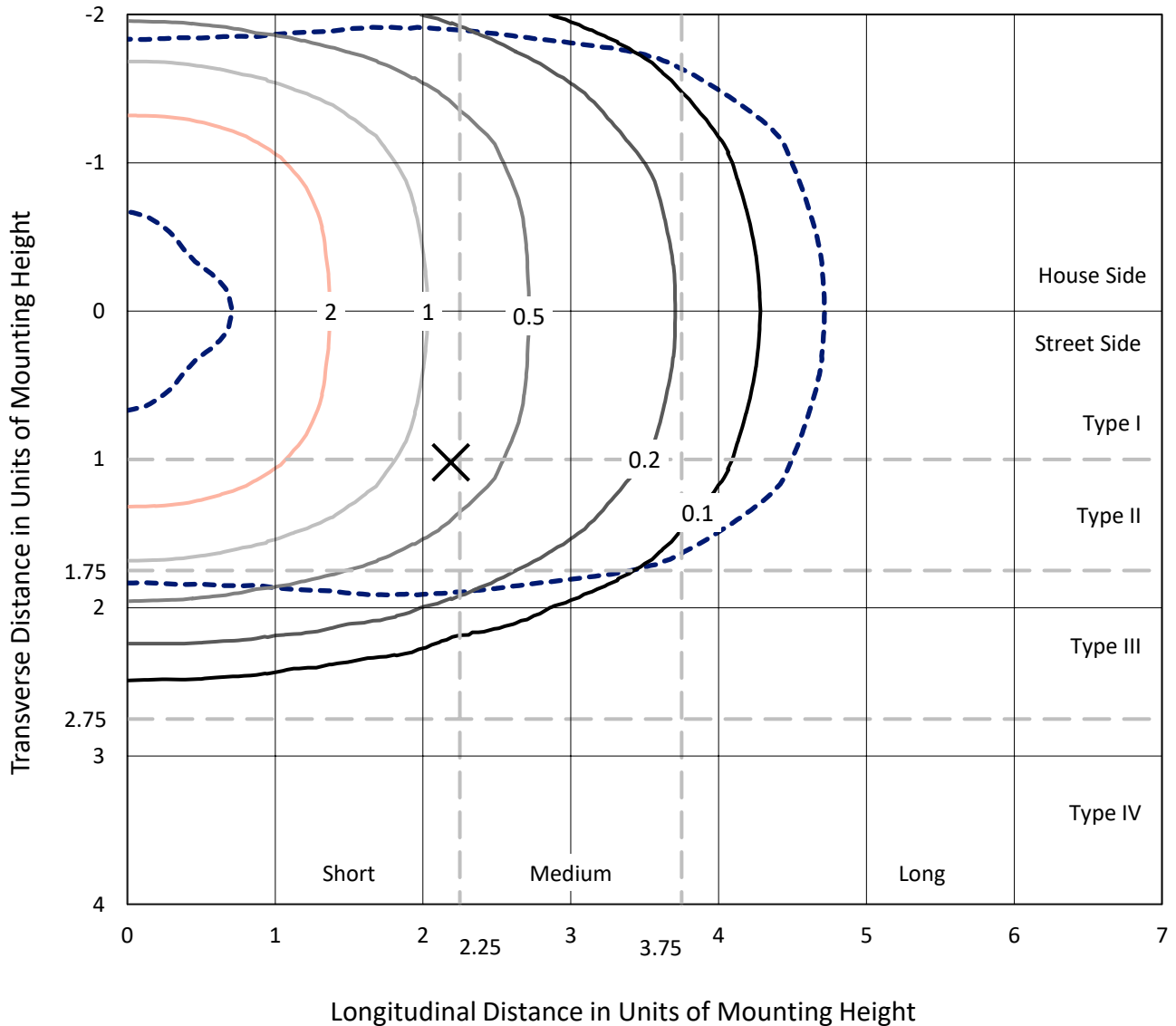




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### Iso-Footcandle Lines of Horizontal Illumination

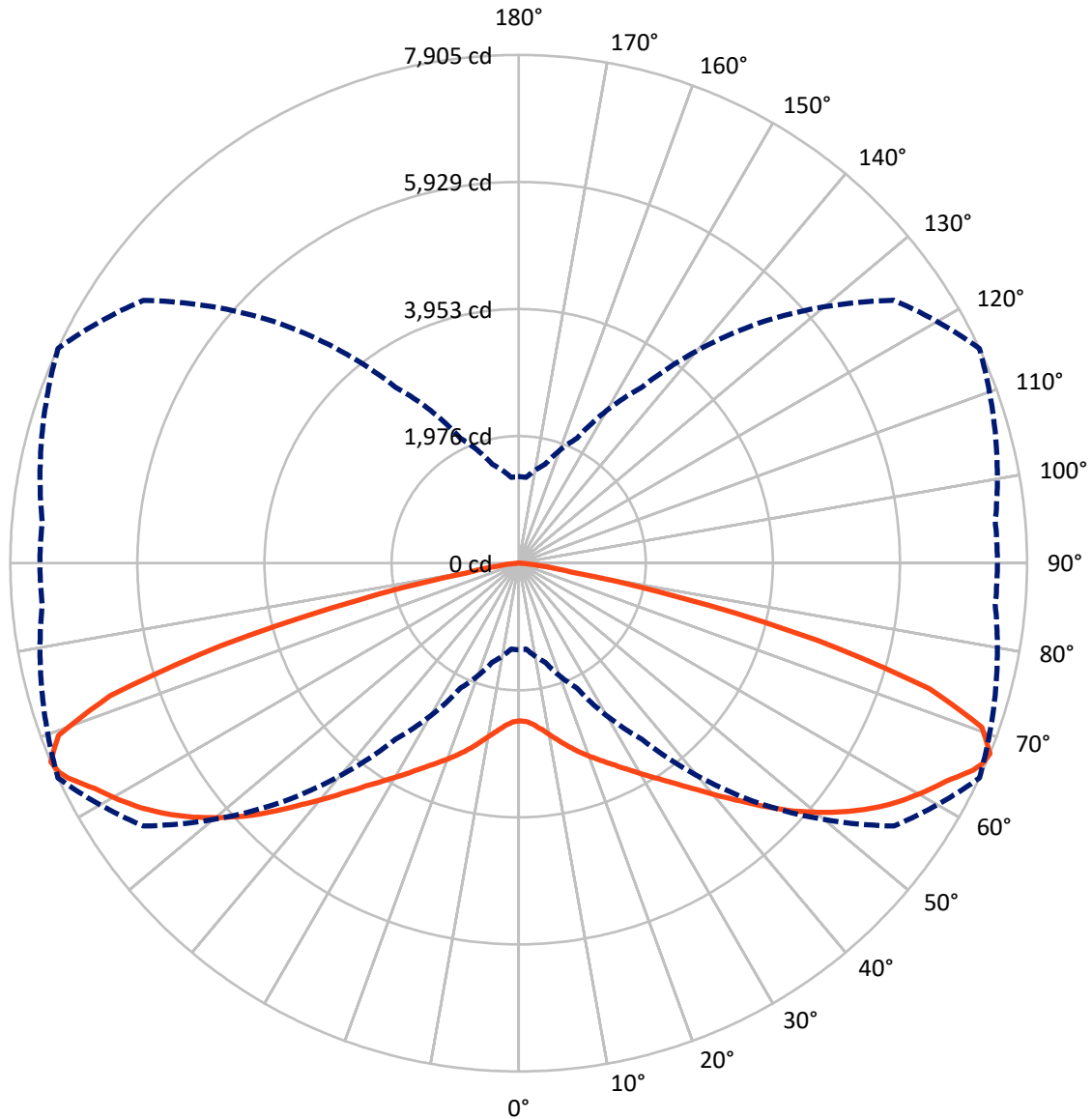
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11699.5	0.0	11699.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11699.5	0.0	11699.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23399.0	0.0	23399.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	1.0
10°-20°	809.0	3.5
20°-30°	1582.5	6.8
30°-40°	2691.6	11.5
40°-50°	4260.0	18.2
50°-60°	5648.7	24.1
60°-70°	5328.4	22.8
70°-80°	2634.1	11.3
80°-90°	203.0	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°	23399.0	100.0
0°-180°	23399.0	100.0



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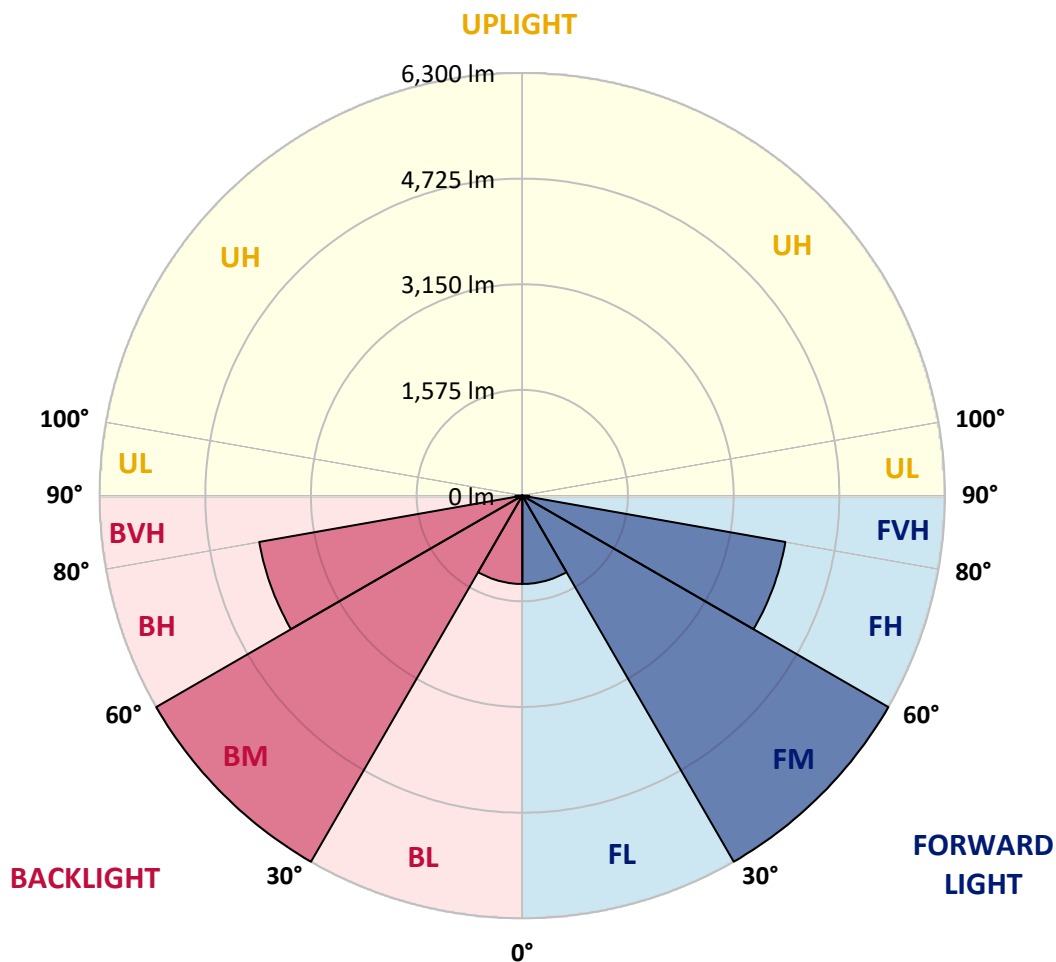
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1316.6	5.6			
FM	(30°-60°)	6300.1	26.9			
FH	(60°-80°)	3981.3	17.0			G2/5000
FVH	(80°-90°)	101.5	0.4			G2/225
BL	(0°-30°)	1316.6	5.6	B3/2500		
BM	(30°-60°)	6300.1	26.9	B4/8500		
BH	(60°-80°)	3981.3	17.0	B4/5000		G4/5000
BVH	(80°-90°)	101.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8	2450.8
2.5°	2438.3	2440.8	2443.3	2447.1	2452.1	2459.6	2464.6	2468.4	2478.4	2479.7	2478.4
5°	2429.5	2432.0	2438.3	2449.6	2465.9	2488.4	2506.0	2527.3	2543.6	2554.9	2552.4
7.5°	2428.3	2433.3	2443.3	2467.1	2498.5	2537.3	2577.5	2613.8	2645.2	2670.2	2666.5
10°	2448.3	2454.6	2470.9	2506.0	2554.9	2611.3	2667.7	2721.6	2766.8	2799.3	2810.6
12.5°	2482.2	2487.2	2517.3	2569.9	2640.1	2710.3	2774.3	2840.7	2903.4	2958.6	2958.6
15°	2541.1	2549.9	2587.5	2664.0	2750.5	2831.9	2897.1	2967.3	3035.0	3097.7	3116.5
17.5°	2622.6	2635.1	2691.5	2789.3	2899.6	2974.9	3036.3	3093.9	3152.9	3213.0	3221.8
20°	2734.2	2746.7	2821.9	2939.8	3070.1	3160.4	3201.8	3215.6	3244.4	3302.1	3309.6
22.5°	2885.8	2898.4	2982.4	3115.3	3260.7	3358.5	3376.0	3343.4	3335.9	3381.0	3386.0
25°	3057.6	3068.9	3165.4	3308.3	3458.8	3565.3	3560.3	3480.1	3434.9	3462.5	3470.0
27.5°	3250.7	3266.9	3364.7	3512.7	3675.6	3769.7	3754.6	3638.0	3541.5	3536.5	3539.0
30°	3497.6	3515.2	3607.9	3749.6	3910.1	3996.6	3965.2	3808.5	3659.3	3609.2	3609.2
32.5°	3758.4	3802.2	3896.3	4044.2	4169.6	4232.2	4184.6	3996.6	3798.5	3728.3	3724.5
35°	4098.1	4121.9	4214.7	4358.9	4452.9	4501.8	4410.3	4208.4	3980.3	3897.5	3886.2
37.5°	4430.3	4450.4	4558.2	4696.1	4810.2	4807.7	4683.5	4460.4	4205.9	4113.1	4105.6
40°	4770.0	4791.4	4914.2	5040.8	5154.9	5144.9	4994.4	4745.0	4474.2	4370.1	4390.2
42.5°	5064.6	5088.5	5227.6	5408.1	5510.9	5508.4	5334.2	5053.4	4771.3	4678.5	4696.1
45°	5332.9	5354.2	5516.0	5722.8	5873.2	5892.0	5701.5	5404.4	5114.8	4995.7	5000.7
47.5°	5522.2	5562.3	5731.6	5968.5	6172.9	6239.3	6052.5	5761.7	5428.2	5304.1	5311.6
50°	5666.4	5691.5	5875.7	6145.3	6403.5	6541.4	6391.0	6092.6	5741.6	5610.0	5627.5
52.5°	5683.9	5714.0	5914.6	6225.5	6556.5	6765.8	6691.9	6416.1	6061.3	5925.9	5963.5
55°	5541.0	5558.6	5798.0	6175.4	6616.6	6932.6	6951.4	6716.9	6365.9	6263.1	6288.2
57.5°	5133.6	5178.7	5482.1	5940.9	6533.9	7021.6	7145.7	6990.2	6674.3	6572.8	6612.9
60°	4465.4	4510.5	4815.2	5396.9	6221.7	6980.2	7306.1	7232.2	6953.9	6872.4	6893.7
62.5°	3498.9	3495.1	3872.5	4585.8	5601.2	6777.1	7425.2	7465.3	7229.7	7126.9	7159.5
65°	2267.8	2279.1	2643.9	3412.4	4664.7	6260.6	7451.6	7762.5	7500.4	7345.0	7368.8
66°	1824.0	1857.9	2167.5	2875.8	4187.1	5922.1	7372.6	7850.2	7583.2	7395.1	7406.4
67.5°	1346.4	1340.1	1594.6	2141.2	3343.4	5279.0	7125.6	7905.4	7677.2	7440.3	7445.3
70°	768.5	767.2	857.5	1175.9	1965.7	3717.0	6006.1	7640.9	7867.8	7603.2	7589.5
72.5°	561.6	557.9	570.4	649.4	959.0	1876.7	4143.2	6678.1	7770.0	7576.9	7538.1
75°	471.4	468.9	466.3	476.4	537.8	850.0	2198.9	4803.9	6742.0	7111.8	7071.7
77.5°	384.9	384.9	386.1	383.6	386.1	447.5	911.4	2574.9	4105.6	4583.3	4694.8
80°	300.9	299.6	320.9	312.2	292.1	287.1	403.7	828.6	1362.7	1355.2	1118.2
82.5°	221.9	206.8	244.5	238.2	215.6	183.0	235.7	353.5	455.1	295.9	219.4
85°	140.4	139.2	173.0	158.0	131.6	86.5	112.8	151.7	188.0	114.1	92.8
87.5°	25.1	23.8	55.2	40.1	40.1	25.1	31.3	41.4	61.4	42.6	31.3
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)