

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: P529321

Luminaire Tested: **GALN-SA4C-727-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529321  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4C-727-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15031 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

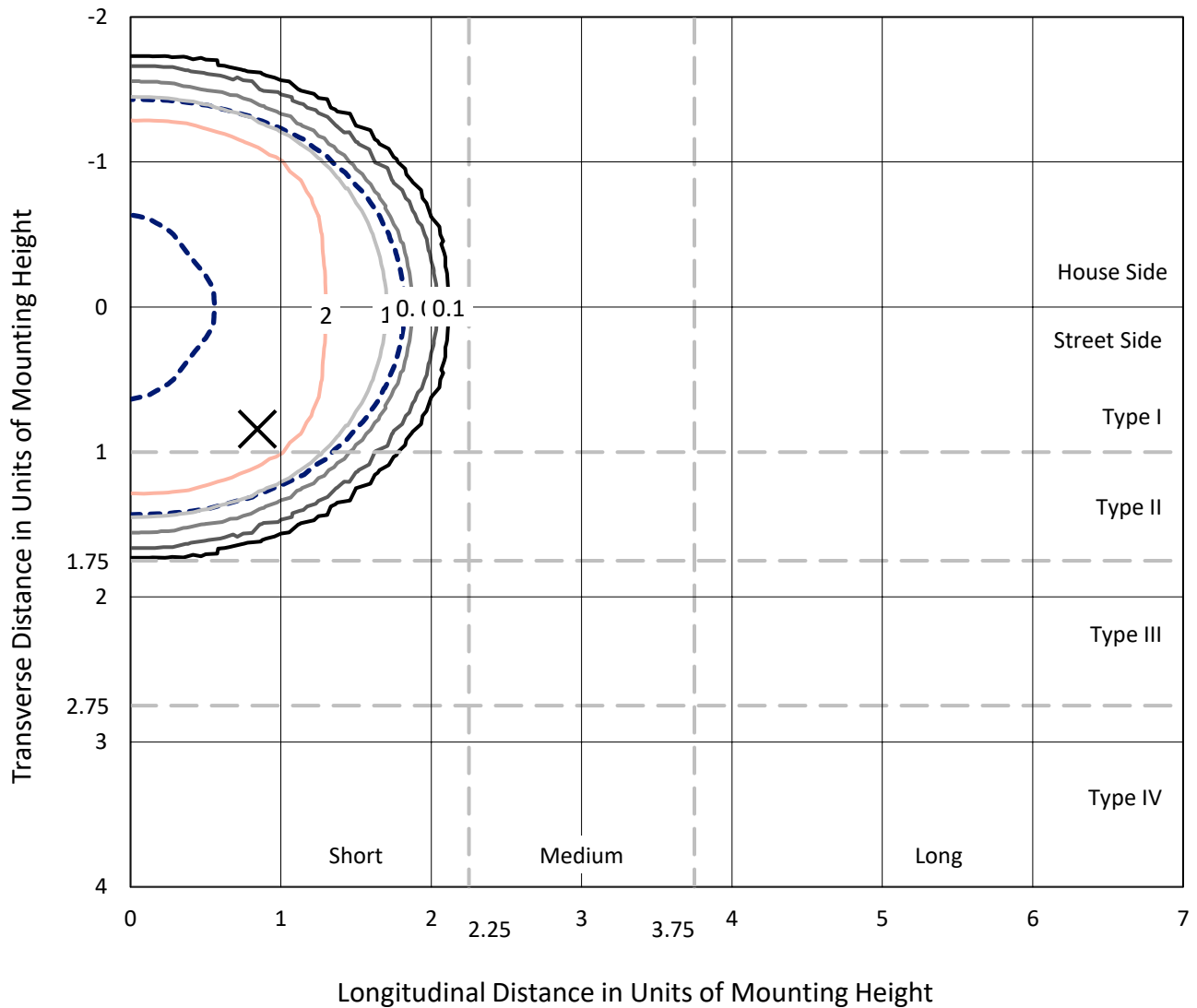
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

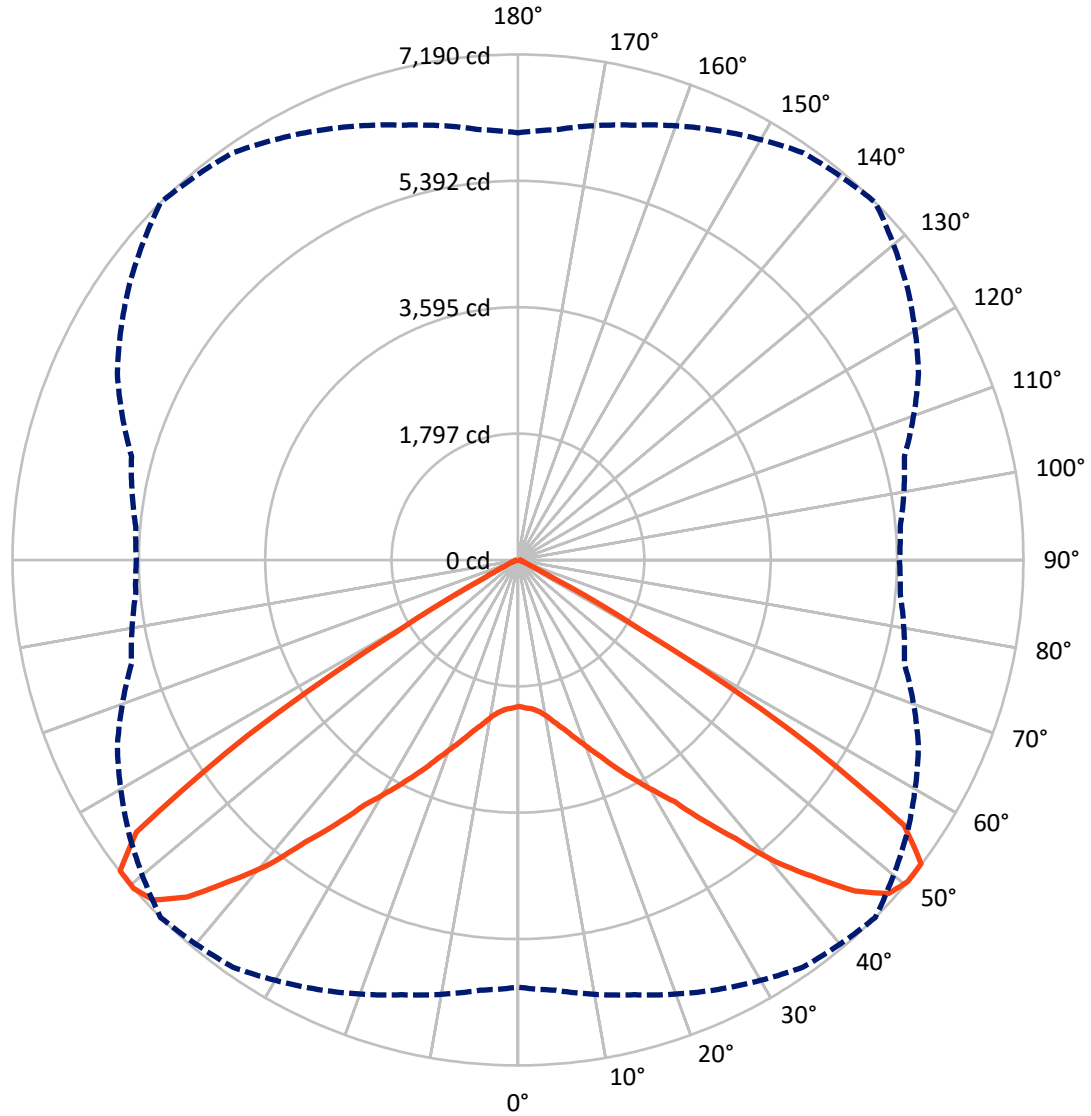
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7515.5	0.0	7515.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	7515.5	0.0	7515.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	15031.0	0.0	15031.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.3	1.4
10°-20°	714.5	4.8
20°-30°	1459.3	9.7
30°-40°	2783.0	18.5
40°-50°	4689.7	31.2
50°-60°	4472.5	29.8
60°-70°	624.3	4.2
70°-80°	59.7	0.4
80°-90°	20.6	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°	15031.0	100.0
0°-180°	15031.0	100.0

**Coefficient of Utilization**



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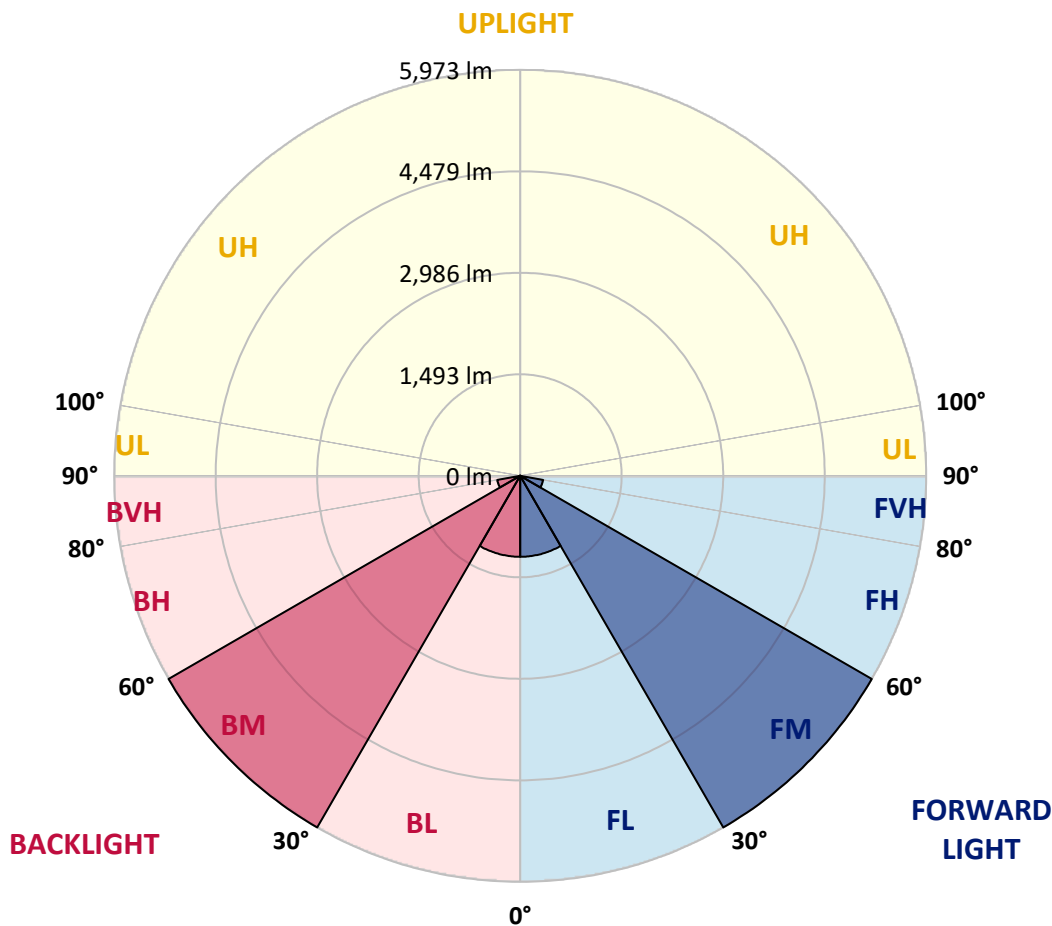
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1190.6	7.9			
FM (30°-60°)	5972.6	39.7			
FH (60°-80°)	342.0	2.3			G0/660
FVH (80°-90°)	10.3	0.1			G1/100
BL (0°-30°)	1190.6	7.9	B3/2500		
BM (30°-60°)	5972.6	39.7	B4/8500		
BH (60°-80°)	342.0	2.3	B1/500		G0/660
BVH (80°-90°)	10.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9	2083.9
2.5°	2076.3	2076.3	2073.8	2094.0	2083.9	2106.6	2104.1	2111.7	2119.3	2116.8	2137.0
5°	2058.6	2056.1	2056.1	2078.8	2101.6	2126.9	2149.6	2164.8	2190.1	2190.1	2215.4
7.5°	2076.3	2063.7	2081.4	2091.5	2134.5	2177.5	2215.4	2245.7	2303.9	2324.1	2316.5
10°	2081.4	2096.5	2109.2	2139.5	2192.6	2258.4	2291.3	2367.1	2432.9	2478.4	2488.5
12.5°	2114.2	2137.0	2172.4	2245.7	2293.8	2379.8	2425.3	2498.6	2589.7	2640.3	2675.7
15°	2177.5	2185.0	2230.6	2324.1	2427.8	2506.2	2577.0	2630.1	2718.7	2776.8	2779.4
17.5°	2258.4	2291.3	2354.5	2443.0	2551.7	2668.1	2723.7	2781.9	2814.8	2893.2	2910.9
20°	2420.2	2425.3	2486.0	2602.3	2738.9	2845.1	2885.6	2915.9	2903.3	2984.2	2999.4
22.5°	2572.0	2577.0	2652.9	2809.7	2956.4	3047.4	3065.1	3047.4	3009.5	3067.7	3072.7
25°	2726.2	2771.8	2827.4	2984.2	3166.3	3287.7	3290.2	3242.2	3163.8	3173.9	3199.2
27.5°	2966.5	2999.4	3057.5	3201.7	3401.5	3538.0	3515.3	3457.1	3356.0	3363.5	3356.0
30°	3247.2	3277.6	3325.6	3510.2	3656.9	3806.1	3839.0	3783.4	3631.6	3598.7	3636.7
32.5°	3586.1	3629.1	3717.6	3887.0	4011.0	4102.0	4124.8	4104.5	3962.9	3950.3	3975.6
35°	3998.3	4056.5	4137.4	4286.6	4387.8	4552.2	4552.2	4483.9	4354.9	4370.1	4367.6
37.5°	4433.3	4519.3	4645.7	4797.5	4934.0	5022.6	4994.7	4936.6	4807.6	4774.7	4807.6
40°	4979.6	5022.6	5181.9	5379.1	5546.1	5647.2	5528.4	5401.9	5093.4	5141.4	5229.9
42.5°	5477.8	5546.1	5667.5	5884.9	6074.6	6158.1	6016.5	5766.1	5394.3	5356.4	5422.1
45°	5902.6	5976.0	6135.3	6446.4	6646.2	6719.5	6405.9	6001.3	5576.4	5480.3	5508.1
47.5°	6185.9	6223.8	6446.4	6742.3	6924.4	7091.3	6641.1	6163.1	5662.4	5480.3	5470.2
50°	6077.1	6142.9	6403.4	6739.7	7071.0	7189.9	6760.0	6287.1	5690.2	5457.5	5427.2
52.5°	5396.9	5510.7	5801.5	6254.2	6754.9	7179.8	6924.4	6246.6	5680.1	5480.3	5525.8
55°	3755.5	3758.1	4112.1	4779.8	5664.9	6666.4	6684.1	6292.1	5745.9	5621.9	5624.5
57.5°	1509.8	1585.7	1856.3	2526.5	3343.3	4577.5	5442.4	5836.9	5753.4	5723.1	5801.5
60°	381.9	384.4	467.9	713.2	1176.0	1962.5	2850.2	3856.7	4440.9	4640.7	4668.5
62.5°	194.7	197.3	217.5	252.9	321.2	526.0	935.7	1484.5	2111.7	2430.4	2513.8
65°	159.3	159.3	172.0	189.7	192.2	202.3	242.8	346.5	503.3	571.6	579.1
67.5°	121.4	121.4	131.5	141.6	146.7	144.2	139.1	144.2	174.5	166.9	161.9
70°	75.9	78.4	83.5	93.6	98.6	101.2	103.7	108.7	123.9	129.0	123.9
72.5°	45.5	45.5	48.1	55.6	63.2	68.3	75.9	80.9	88.5	101.2	98.6
75°	20.2	20.2	25.3	32.9	40.5	48.1	55.6	63.2	68.3	75.9	78.4
77.5°	5.1	7.6	12.6	22.8	30.3	40.5	50.6	58.2	63.2	63.2	60.7
80°	2.5	2.5	10.1	17.7	32.9	43.0	55.6	60.7	68.3	63.2	55.6
82.5°	2.5	2.5	10.1	17.7	30.3	43.0	58.2	65.8	70.8	63.2	53.1
85°	0.0	2.5	7.6	15.2	25.3	30.3	25.3	17.7	10.1	10.1	7.6
87.5°	0.0	0.0	2.5	2.5	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)