

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: P452510

Luminaire Tested: **GALN-SA3C-727-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452510  
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-SA3C-727-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 18409 lumens  
Efficiency: N/A  
Efficacy: 115.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

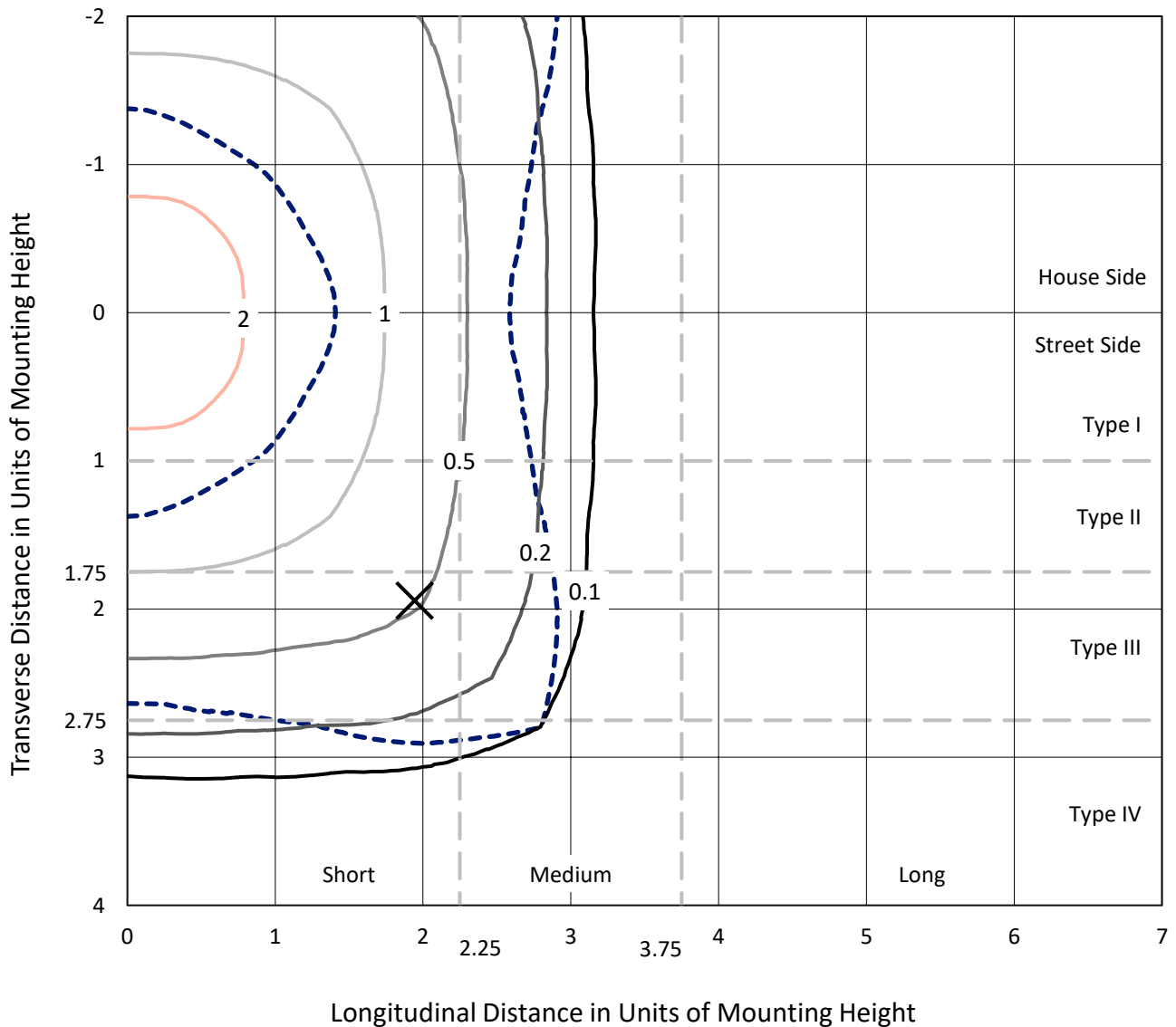
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

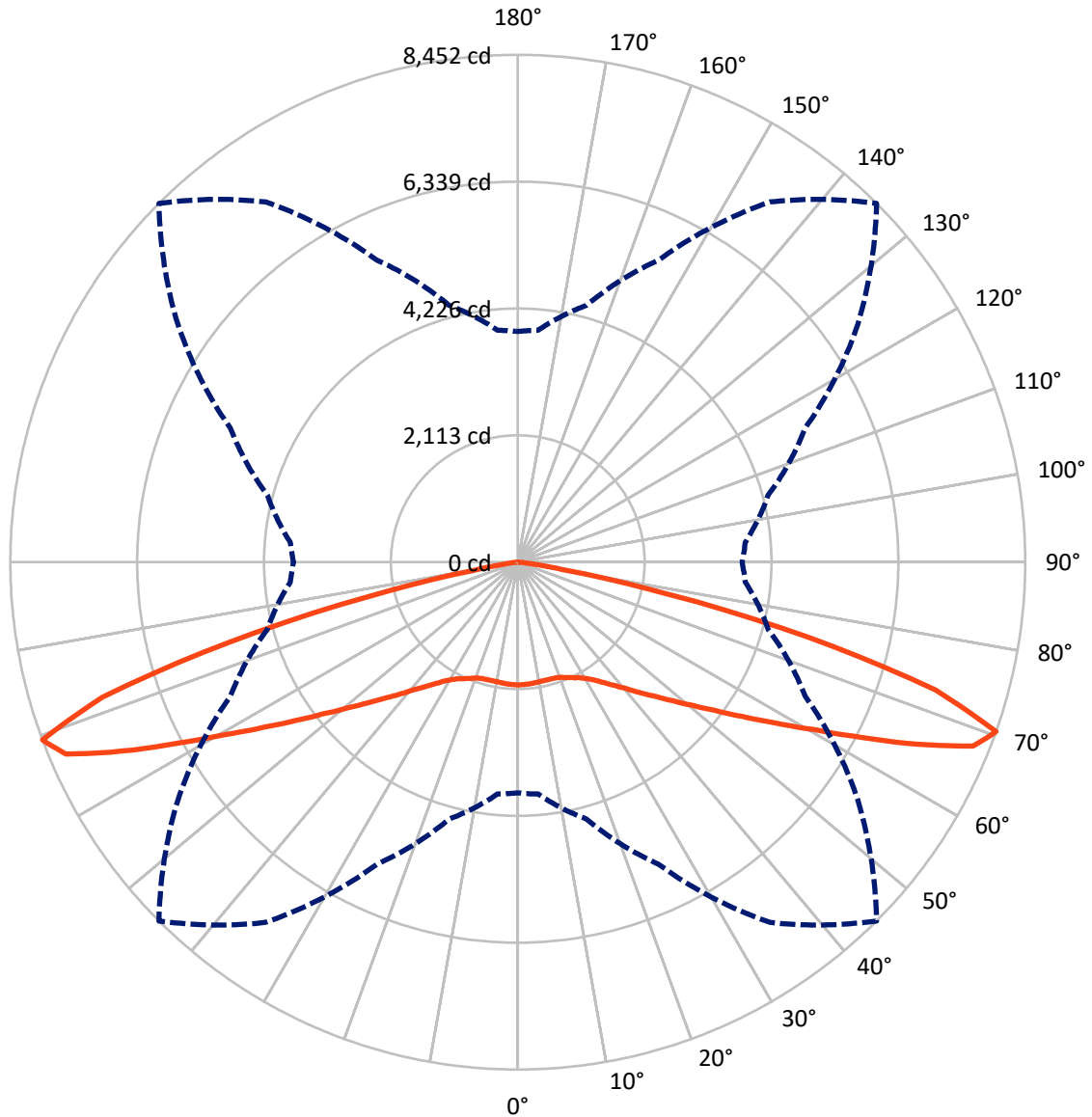
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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	9204.5	0.0	9204.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9204.5	0.0	9204.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18409.0	0.0	18409.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	193.8	1.1
10°-20°	568.8	3.1
20°-30°	972.9	5.3
30°-40°	1544.2	8.4
40°-50°	2491.2	13.5
50°-60°	4053.2	22.0
60°-70°	5875.7	31.9
70°-80°	2606.3	14.2
80°-90°	102.8	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°	18409.0	100.0
0°-180°	18409.0	100.0

**Coefficient of Utilization**



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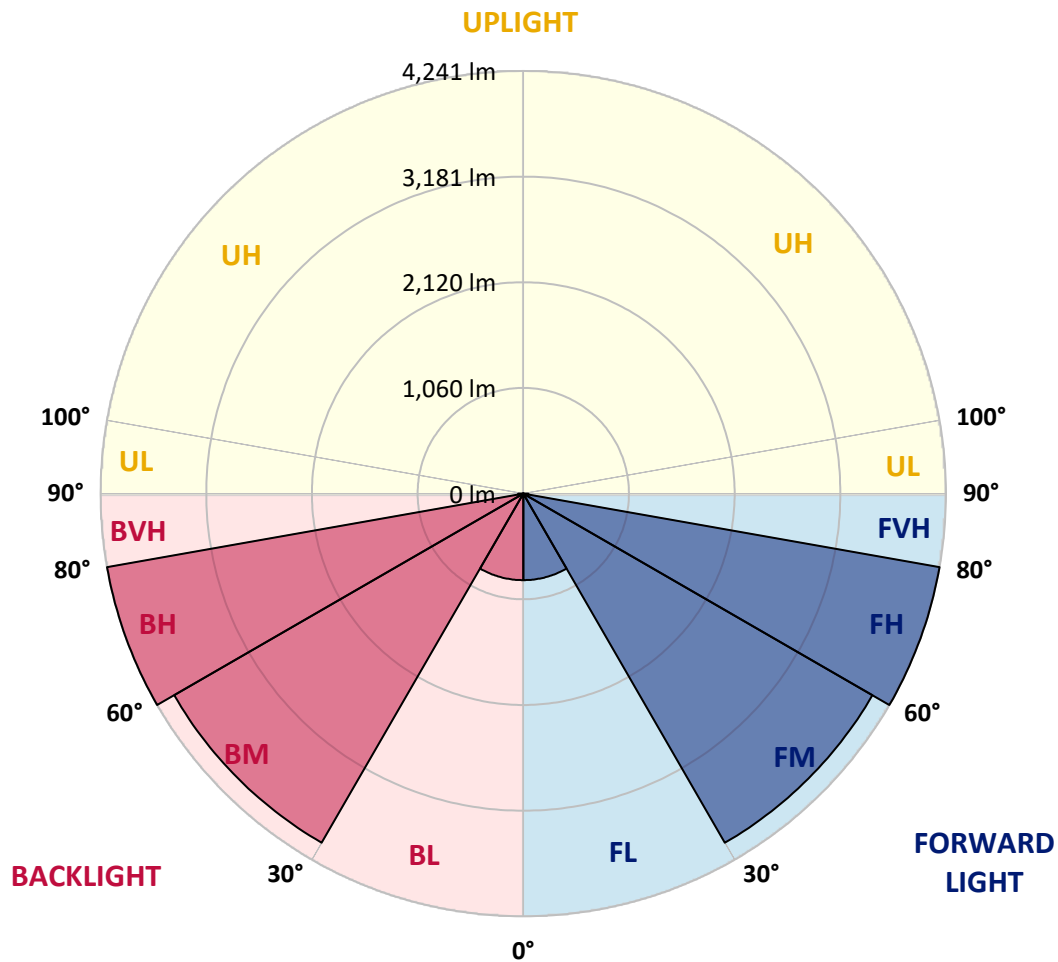
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	867.8	4.7			
FM (30°-60°)	4044.3	22.0			
FH (60°-80°)	4241.0	23.0			G2/5000
FVH (80°-90°)	51.4	0.3			G1/100
BL (0°-30°)	867.8	4.7	B2/1000		
BM (30°-60°)	4044.3	22.0	B3/5000		
BH (60°-80°)	4241.0	23.0	B4/5000		G2/5000
BVH (80°-90°)	51.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2	2044.2
2.5°	2044.2	2046.2	2043.3	2041.3	2040.4	2040.4	2039.4	2040.4	2046.2	2047.1	2044.2
5°	2038.4	2040.4	2039.4	2037.4	2036.5	2036.5	2035.5	2034.5	2039.4	2041.3	2040.4
7.5°	2030.6	2031.6	2030.6	2029.7	2030.6	2029.7	2026.8	2024.8	2028.7	2028.7	2027.7
10°	2017.1	2019.0	2018.0	2019.0	2020.9	2020.9	2017.1	2013.2	2014.2	2012.2	2012.2
12.5°	2000.6	2003.5	2004.5	2008.3	2013.2	2019.0	2010.3	2001.5	1999.6	1998.6	1997.7
15°	1989.9	1992.8	1996.7	2000.6	2009.3	2021.9	2009.3	1995.7	1991.8	1988.0	1986.0
17.5°	1987.0	1990.9	1996.7	2002.5	2014.2	2026.8	2016.1	2002.5	1992.8	1987.0	1985.0
20°	1994.8	1997.7	2006.4	2017.1	2033.6	2046.2	2035.5	2020.9	2006.4	1997.7	1994.8
22.5°	2010.3	2015.1	2025.8	2045.2	2068.5	2086.9	2072.4	2048.1	2024.8	2013.2	2009.3
25°	2044.2	2048.1	2060.7	2086.9	2114.1	2131.6	2116.0	2087.9	2055.9	2040.4	2035.5
27.5°	2095.7	2101.5	2115.1	2146.1	2168.4	2178.1	2167.4	2148.0	2124.8	2108.3	2104.4
30°	2168.4	2175.2	2195.6	2228.6	2243.1	2248.9	2244.1	2231.5	2215.0	2197.5	2193.6
32.5°	2266.4	2270.3	2293.6	2324.6	2338.2	2340.1	2334.3	2328.5	2301.3	2272.2	2270.3
35°	2376.0	2382.8	2411.0	2447.8	2460.5	2461.4	2449.8	2441.0	2409.0	2385.7	2385.7
37.5°	2521.6	2524.5	2551.7	2593.4	2607.0	2603.1	2597.3	2589.5	2555.5	2525.5	2526.4
40°	2692.3	2698.2	2721.4	2769.9	2769.9	2765.1	2769.0	2763.2	2729.2	2700.1	2701.1
42.5°	2895.1	2898.0	2926.2	2977.6	2973.7	2964.0	2967.9	2960.1	2938.8	2905.8	2894.1
45°	3111.5	3123.1	3171.6	3221.1	3213.3	3182.3	3197.8	3195.9	3176.5	3127.0	3129.9
47.5°	3372.5	3391.9	3438.4	3497.6	3488.9	3440.4	3457.8	3469.5	3442.3	3388.0	3378.3
50°	3666.4	3679.0	3747.9	3803.2	3795.5	3744.0	3783.8	3785.8	3717.8	3641.2	3641.2
52.5°	3979.8	3992.4	4085.6	4171.9	4176.8	4102.0	4134.1	4132.1	4021.5	3920.6	3901.2
55°	4331.0	4336.8	4457.1	4584.2	4611.4	4538.6	4542.5	4503.7	4360.1	4242.7	4232.1
57.5°	4693.9	4715.2	4848.1	5013.1	5093.6	5049.0	5028.6	4924.8	4786.0	4651.2	4644.4
60°	5095.5	5096.5	5269.2	5464.2	5627.2	5657.3	5573.9	5435.1	5255.6	5077.1	5069.3
62.5°	5374.0	5415.7	5634.0	5963.9	6255.9	6424.7	6204.5	5913.4	5560.3	5272.1	5243.0
65°	5431.2	5459.4	5792.2	6351.0	6947.7	7311.5	6802.1	6183.1	5580.6	5196.4	5177.0
67.5°	4968.4	4998.5	5446.8	6304.4	7432.8	8178.9	7190.2	6053.1	5235.3	4759.9	4722.0
70°	3843.0	3877.0	4430.9	5549.6	7325.1	8451.5	6913.7	5279.9	4317.4	3804.2	3735.3
72.5°	2043.3	2168.4	2641.9	3809.0	5945.4	7276.6	5668.9	3852.7	2784.5	2276.1	2184.9
75°	746.1	761.6	1025.5	1689.1	3458.8	4989.8	3591.7	1837.6	1056.6	815.9	774.2
77.5°	308.5	307.6	337.6	510.3	1256.4	2555.5	1402.0	539.4	336.7	311.4	307.6
80°	182.4	182.4	200.8	212.5	330.8	771.3	369.7	240.6	201.8	184.3	187.3
82.5°	81.5	86.3	127.1	133.9	160.1	211.5	178.5	153.3	131.9	91.2	82.5
85°	44.6	38.8	66.9	69.9	76.6	78.6	84.4	83.4	76.6	44.6	45.6
87.5°	8.7	10.7	19.4	14.6	16.5	14.6	19.4	27.2	28.1	15.5	12.6
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)