

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: P455905

Luminaire Tested: **GALN-SA7A-827-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24507 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

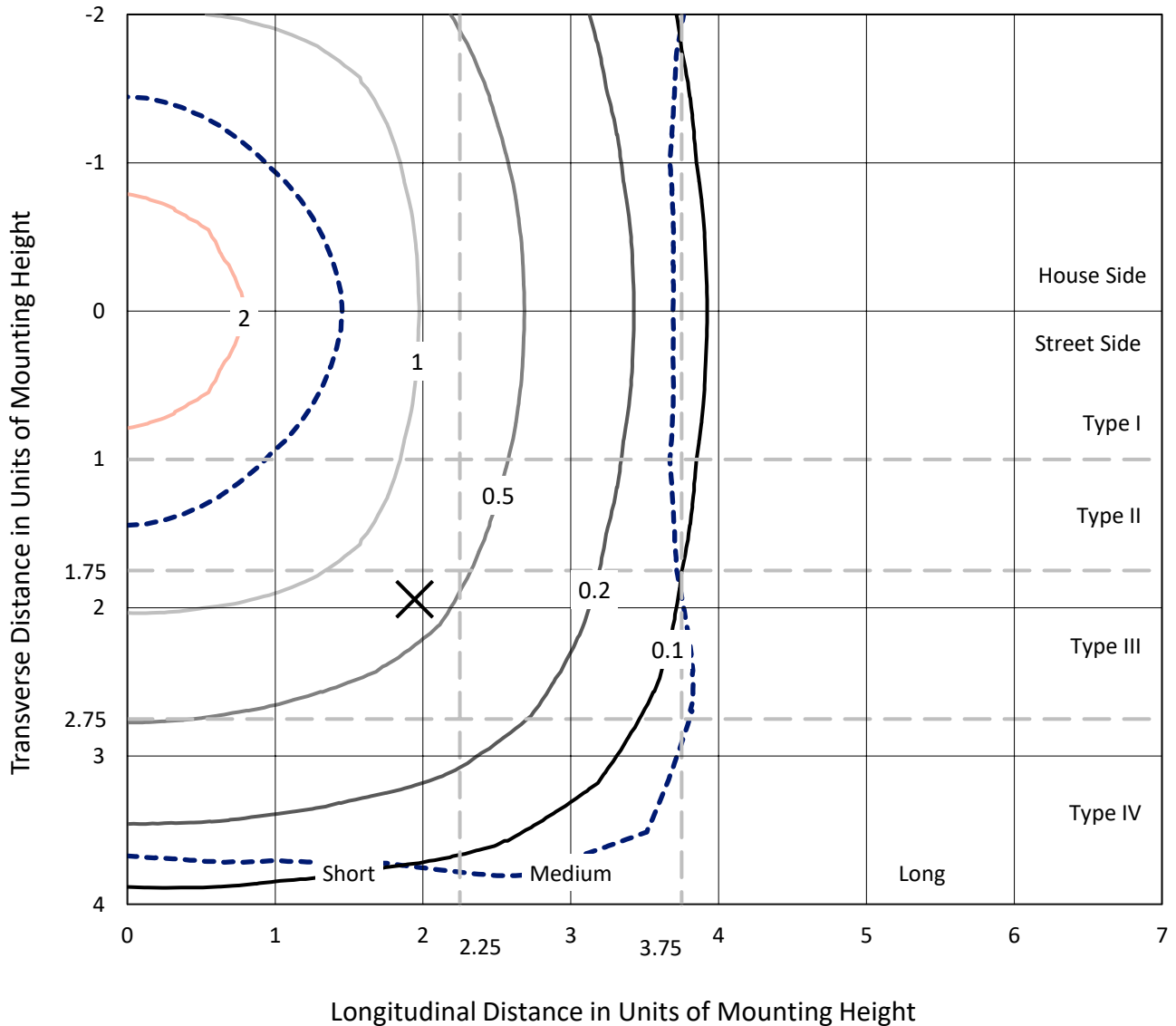
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

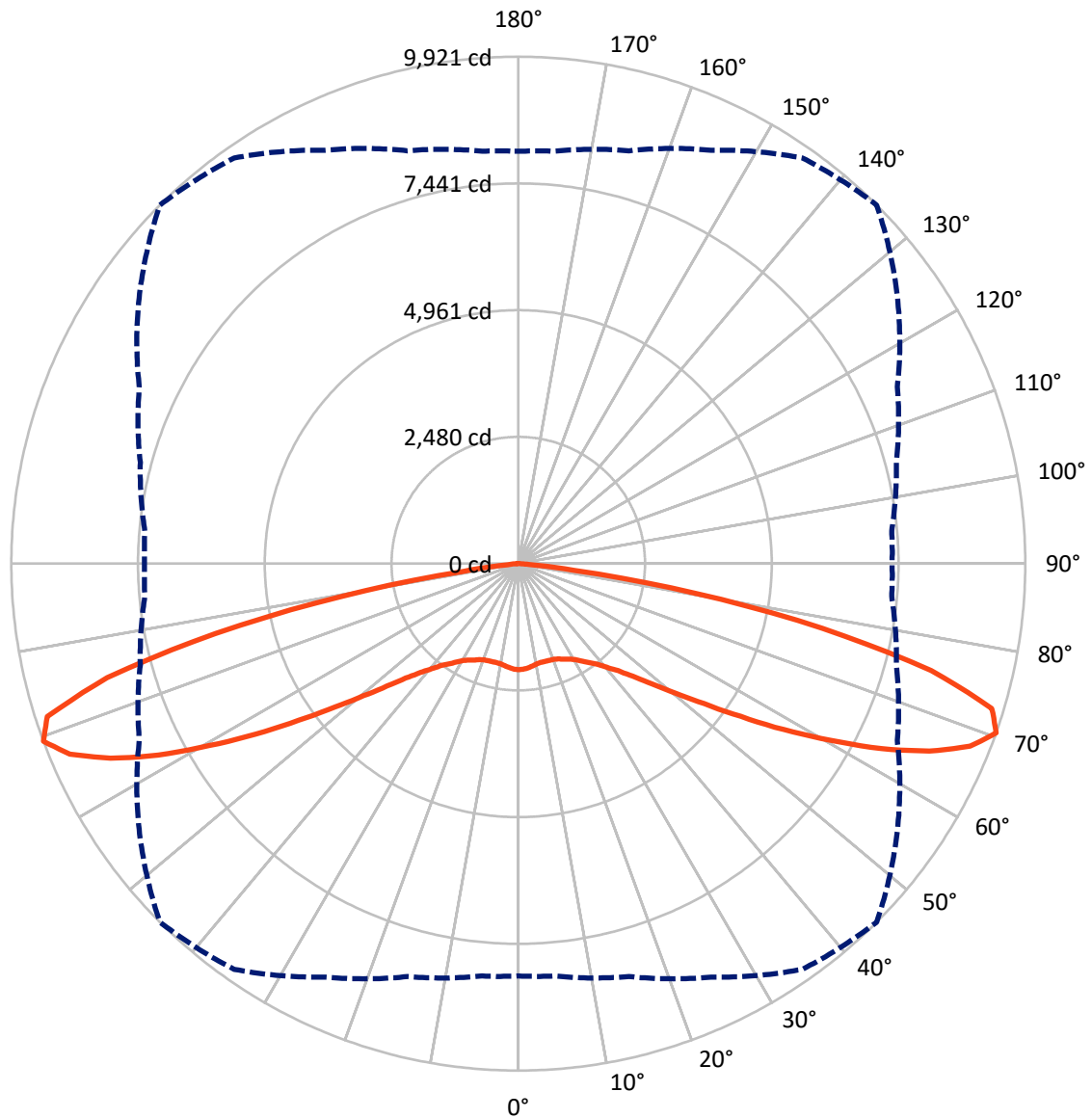
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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
House Side	Lumens	12253.5	0.0	12253.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12253.5	0.0	12253.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24507.0	0.0	24507.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	0.8
10°-20°	568.0	2.3
20°-30°	967.8	3.9
30°-40°	1500.1	6.1
40°-50°	2524.9	10.3
50°-60°	4593.9	18.7
60°-70°	7777.4	31.7
70°-80°	6020.0	24.6
80°-90°	360.7	1.5
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°	24507.0	100.0
0°-180°	24507.0	100.0



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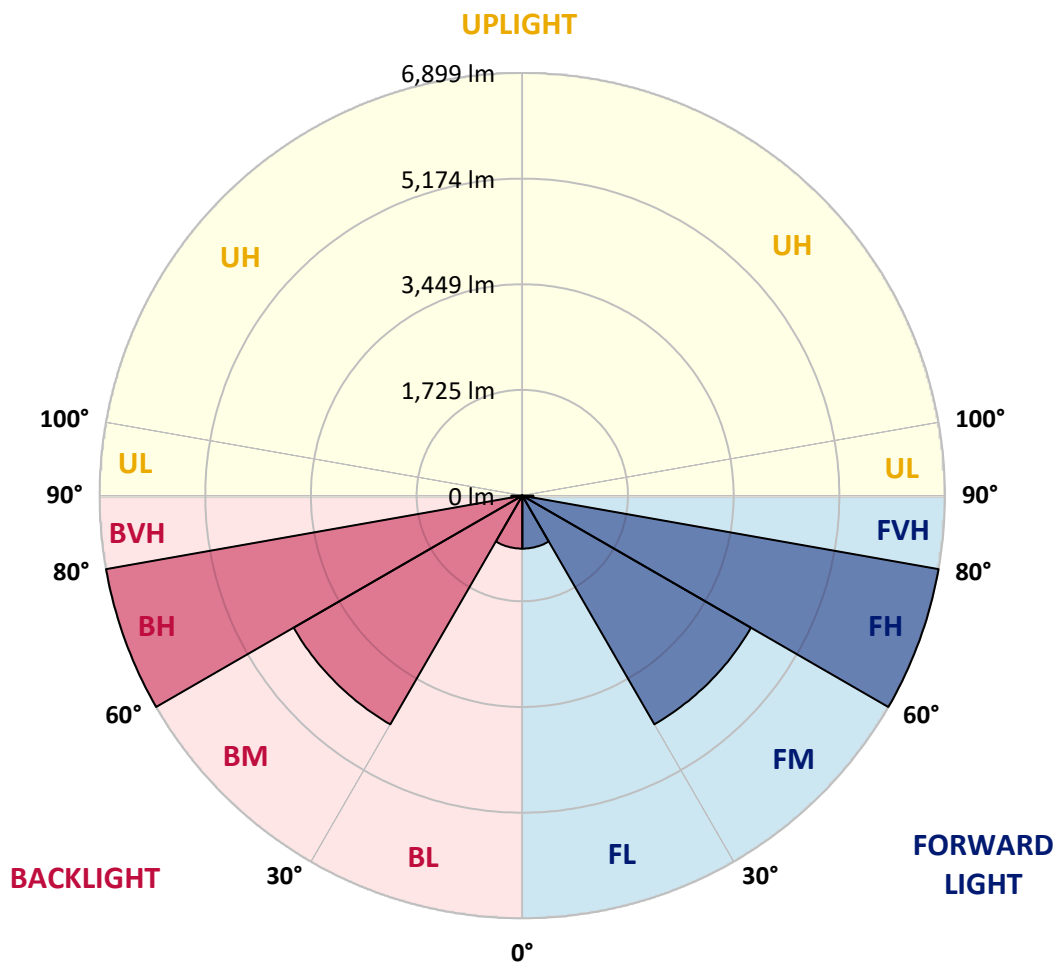
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	864.9	3.5			
FM (30°-60°)	4309.5	17.6			
FH (60°-80°)	6898.7	28.1			G3/7500
FVH (80°-90°)	180.4	0.7			G2/225
BL (0°-30°)	864.9	3.5	B2/1000		
BM (30°-60°)	4309.5	17.6	B3/5000		
BH (60°-80°)	6898.7	28.1	B5		G3/7500
BVH (80°-90°)	180.4	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8	2074.8
2.5°	2069.6	2070.9	2070.9	2068.3	2067.1	2067.1	2065.8	2065.8	2069.6	2070.9	2072.2
5°	2051.5	2051.5	2051.5	2050.2	2047.6	2047.6	2045.0	2045.0	2046.3	2050.2	2047.6
7.5°	2026.9	2029.5	2029.5	2024.3	2020.5	2020.5	2019.2	2020.5	2021.7	2025.6	2024.3
10°	2019.2	2020.5	2014.0	2004.9	1998.5	1994.6	1995.9	1998.5	2004.9	2007.5	2008.8
12.5°	2024.3	2024.3	2012.7	1999.7	1988.1	1982.9	1981.6	1990.7	2002.3	2010.1	2012.7
15°	2030.8	2028.2	2014.0	1997.2	1985.5	1984.2	1982.9	1989.4	2006.2	2021.7	2023.0
17.5°	2034.7	2033.4	2015.3	1994.6	1988.1	1988.1	1986.8	1992.0	2010.1	2029.5	2030.8
20°	2047.6	2043.8	2023.0	2001.0	1995.9	1998.5	1994.6	2001.0	2020.5	2043.8	2048.9
22.5°	2073.5	2069.6	2048.9	2026.9	2024.3	2024.3	2023.0	2029.5	2050.2	2074.8	2078.7
25°	2104.6	2100.7	2081.3	2065.8	2068.3	2073.5	2070.9	2072.2	2089.1	2109.8	2116.2
27.5°	2146.0	2139.5	2122.7	2109.8	2117.5	2117.5	2117.5	2116.2	2126.6	2146.0	2152.5
30°	2196.5	2193.9	2175.8	2174.5	2181.0	2174.5	2174.5	2175.8	2177.1	2195.2	2201.7
32.5°	2262.5	2257.3	2248.3	2245.7	2263.8	2269.0	2250.8	2234.0	2243.1	2261.2	2265.1
35°	2371.2	2363.5	2350.5	2336.3	2350.5	2375.1	2336.3	2323.3	2346.6	2371.2	2373.8
37.5°	2518.8	2514.9	2494.2	2468.3	2467.0	2492.9	2452.8	2451.5	2495.5	2525.2	2529.1
40°	2703.9	2707.7	2681.9	2657.3	2644.3	2665.0	2634.0	2645.6	2688.3	2722.0	2719.4
42.5°	2964.0	2949.8	2909.7	2886.4	2872.1	2864.4	2856.6	2874.7	2922.6	2958.8	2987.3
45°	3268.2	3263.0	3212.5	3184.1	3153.0	3141.3	3138.8	3171.1	3229.4	3273.4	3277.3
47.5°	3612.5	3600.8	3568.5	3538.7	3527.1	3512.8	3499.9	3524.5	3582.7	3613.8	3622.8
50°	3967.1	3969.7	3969.7	3964.5	3976.2	3978.8	3943.8	3952.9	3985.3	3982.7	3980.1
52.5°	4372.3	4386.5	4453.8	4460.3	4515.9	4553.5	4490.0	4452.5	4440.9	4371.0	4376.1
55°	4848.6	4861.5	4962.5	5063.4	5213.6	5277.0	5143.7	5027.2	4944.4	4838.2	4843.4
57.5°	5442.7	5449.1	5544.9	5739.1	5977.2	6126.1	5891.8	5661.4	5493.2	5392.2	5352.1
60°	6082.1	6088.5	6228.3	6465.2	6835.4	7016.6	6726.7	6350.0	6137.7	5983.7	5994.1
62.5°	6849.6	6875.5	7001.1	7327.2	7776.4	7979.6	7595.2	7091.7	6804.3	6612.8	6620.5
65°	7671.5	7715.5	7852.7	8211.3	8625.4	8844.2	8373.0	7791.9	7434.7	7200.4	7225.0
67.5°	8204.8	8243.6	8441.6	8837.7	9354.2	9535.4	8927.0	8250.1	7803.5	7524.0	7472.2
70°	8068.9	8101.2	8365.3	8927.0	9692.0	9921.1	9059.0	8182.8	7657.3	7335.0	7314.3
72.5°	7122.7	7055.4	7441.1	8247.5	9306.3	9690.7	8643.6	7473.5	6812.1	6480.7	6441.9
75°	4720.4	4866.7	5436.2	6386.2	7873.4	8349.7	7377.7	6000.5	5168.3	4892.6	4849.9
77.5°	1577.8	1690.4	2196.5	3620.3	5367.6	6083.4	5375.4	3924.4	2776.3	2236.6	2247.0
80°	418.1	412.9	534.6	995.3	2319.4	3523.2	2700.0	1329.3	727.4	526.8	499.6
82.5°	150.1	168.3	216.2	275.7	614.8	1095.0	772.7	372.8	273.1	201.9	195.4
85°	66.0	64.7	93.2	110.0	154.0	204.5	181.2	157.9	138.5	91.9	85.4
87.5°	14.2	14.2	22.0	16.8	27.2	27.2	33.7	40.1	41.4	27.2	22.0
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)