

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: P453440

Luminaire Tested: **GALN-SA4C-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453440
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-SA4C-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24343 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

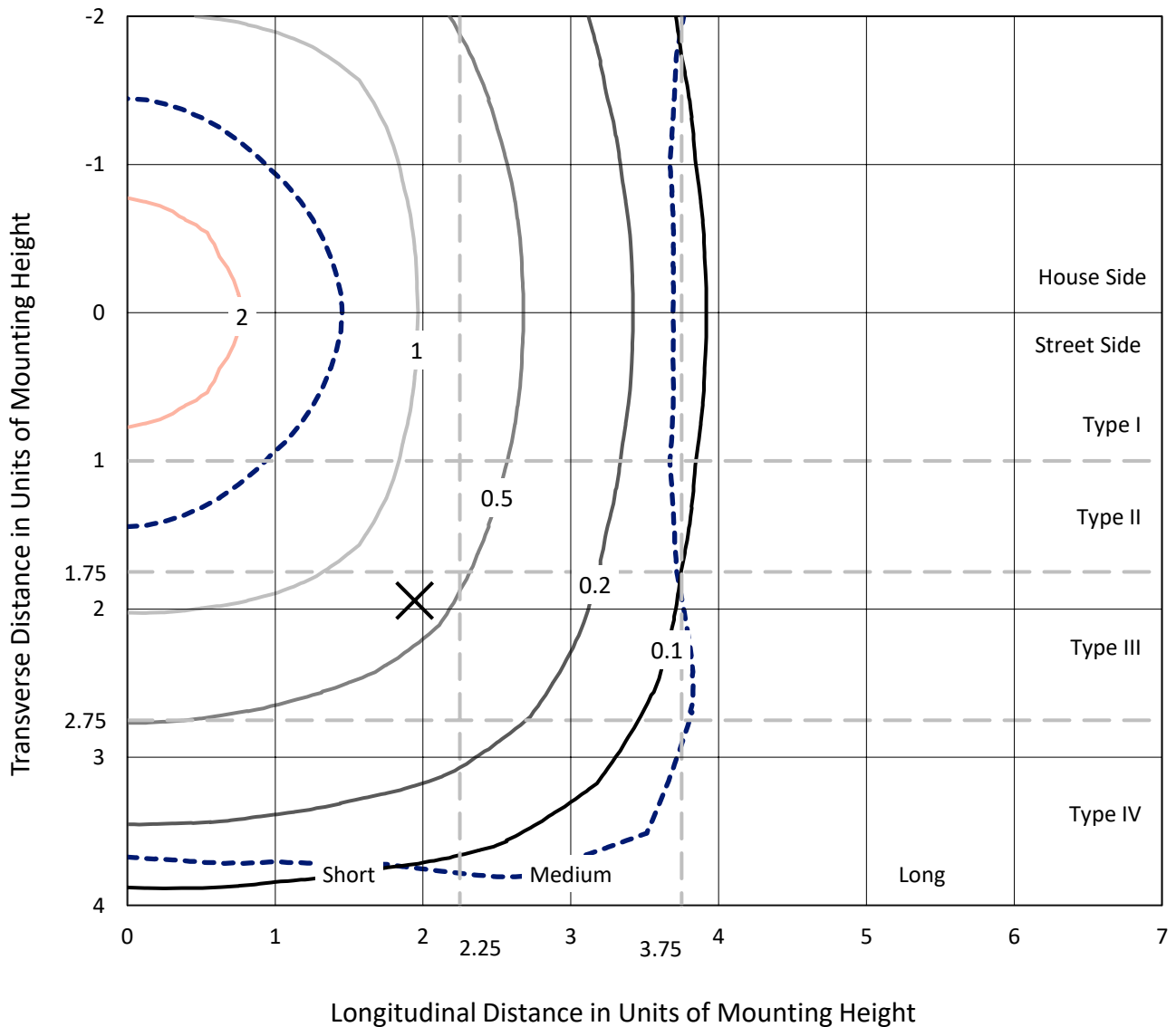
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

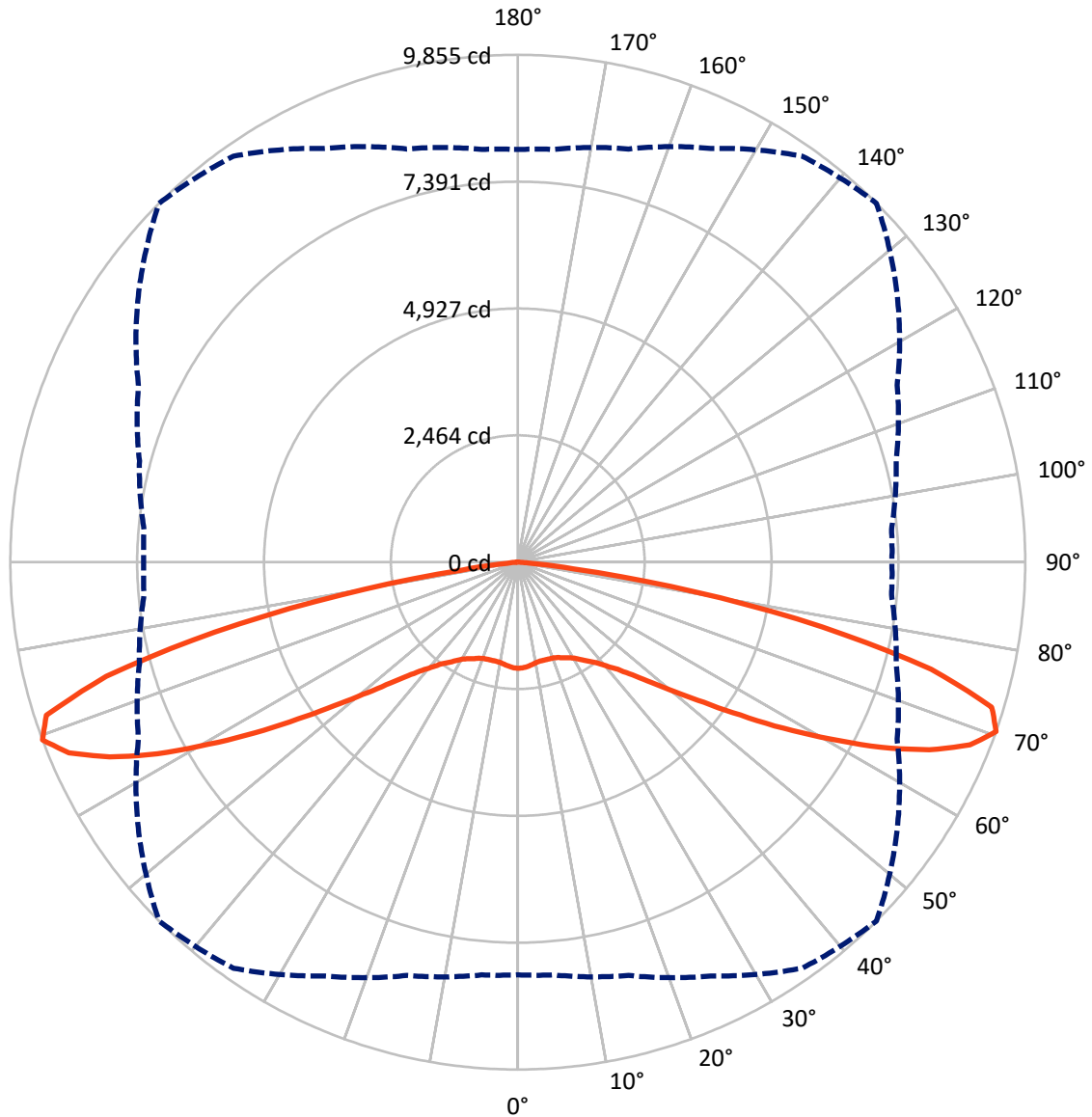
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	12171.5	0.0	12171.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12171.5	0.0	12171.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	24343.0	0.0	24343.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	192.7	0.8
10°-20°	564.2	2.3
20°-30°	961.3	3.9
30°-40°	1490.1	6.1
40°-50°	2508.0	10.3
50°-60°	4563.2	18.7
60°-70°	7725.4	31.7
70°-80°	5979.7	24.6
80°-90°	358.3	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°	24343.0	100.0
0°-180°	24343.0	100.0

Coefficient of Utilization



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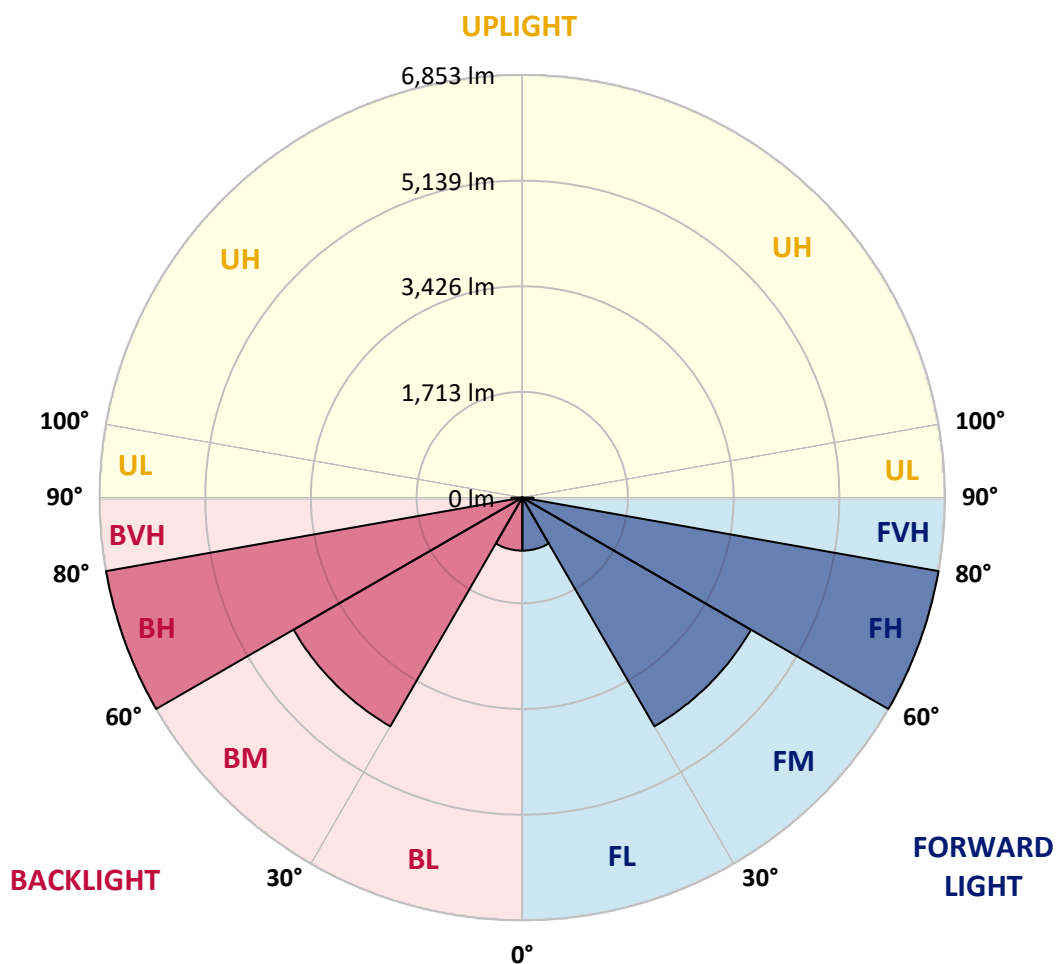
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	859.2	3.5			
FM (30°-60°)	4280.6	17.6			
FH (60°-80°)	6852.5	28.1			G3/7500
FVH (80°-90°)	179.2	0.7			G2/225
BL (0°-30°)	859.2	3.5	B2/1000		
BM (30°-60°)	4280.6	17.6	B3/5000		
BH (60°-80°)	6852.5	28.1	B5		G3/7500
BVH (80°-90°)	179.2	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°	2060.9	2060.9	2060.9	2060.9	2060.9	2060.9	2060.9	2060.9	2060.9	2060.9	2060.9
2.5°	2055.8	2057.1	2057.1	2054.5	2053.2	2053.2	2051.9	2051.9	2055.8	2057.1	2058.4
5°	2037.8	2037.8	2037.8	2036.5	2033.9	2033.9	2031.4	2031.4	2032.6	2036.5	2033.9
7.5°	2013.4	2015.9	2015.9	2010.8	2006.9	2006.9	2005.6	2006.9	2008.2	2012.1	2010.8
10°	2005.6	2006.9	2000.5	1991.5	1985.1	1981.2	1982.5	1985.1	1991.5	1994.1	1995.4
12.5°	2010.8	2010.8	1999.2	1986.4	1974.8	1969.7	1968.4	1977.4	1988.9	1996.6	1999.2
15°	2017.2	2014.6	2000.5	1983.8	1972.2	1970.9	1969.7	1976.1	1992.8	2008.2	2009.5
17.5°	2021.1	2019.8	2001.8	1981.2	1974.8	1974.8	1973.5	1978.7	1996.6	2015.9	2017.2
20°	2033.9	2030.1	2009.5	1987.6	1982.5	1985.1	1981.2	1987.6	2006.9	2030.1	2035.2
22.5°	2059.6	2055.8	2035.2	2013.4	2010.8	2010.8	2009.5	2015.9	2036.5	2060.9	2064.8
25°	2090.5	2086.6	2067.4	2051.9	2054.5	2059.6	2057.1	2058.4	2075.1	2095.6	2102.1
27.5°	2131.6	2125.2	2108.5	2095.6	2103.4	2103.4	2103.4	2102.1	2112.4	2131.6	2138.1
30°	2181.8	2179.2	2161.2	2159.9	2166.4	2159.9	2159.9	2161.2	2162.5	2180.5	2186.9
32.5°	2247.4	2242.2	2233.2	2230.6	2248.6	2253.8	2235.8	2219.1	2228.1	2246.1	2249.9
35°	2355.4	2347.6	2334.8	2320.6	2334.8	2359.2	2320.6	2307.8	2330.9	2355.4	2357.9
37.5°	2501.9	2498.1	2477.5	2451.8	2450.5	2476.2	2436.3	2435.1	2478.8	2508.3	2512.2
40°	2685.8	2689.6	2663.9	2639.5	2626.6	2647.2	2616.3	2627.9	2670.3	2703.8	2701.2
42.5°	2944.2	2930.0	2890.2	2867.0	2852.9	2845.2	2837.5	2855.5	2903.0	2939.0	2967.3
45°	3246.3	3241.2	3191.0	3162.8	3131.9	3120.3	3117.8	3149.9	3207.8	3251.5	3255.3
47.5°	3588.3	3576.7	3544.6	3515.0	3503.5	3489.3	3476.5	3500.9	3558.7	3589.6	3598.6
50°	3940.6	3943.2	3943.2	3938.0	3949.6	3952.2	3917.4	3926.4	3958.6	3956.0	3953.4
52.5°	4343.0	4357.1	4424.0	4430.4	4485.7	4523.0	4460.0	4422.7	4411.1	4341.7	4346.9
55°	4816.1	4829.0	4929.3	5029.6	5178.7	5241.7	5109.3	4993.6	4911.3	4805.8	4811.0
57.5°	5406.3	5412.7	5507.8	5700.7	5937.2	6085.1	5852.4	5623.5	5456.4	5356.1	5316.3
60°	6041.4	6047.8	6186.7	6421.9	6789.6	6969.6	6681.6	6307.5	6096.7	5943.7	5953.9
62.5°	6803.8	6829.5	6954.2	7278.2	7724.3	7926.2	7544.3	7044.2	6758.8	6568.5	6576.2
65°	7620.2	7663.9	7800.2	8156.3	8567.7	8785.0	8317.0	7739.7	7384.9	7152.2	7176.6
67.5°	8149.9	8188.4	8385.2	8778.6	9291.6	9471.5	8867.3	8194.9	7751.3	7473.6	7422.2
70°	8014.9	8047.0	8309.3	8867.3	9627.1	9854.7	8998.4	8128.0	7606.0	7285.9	7265.3
72.5°	7075.1	7008.2	7391.3	8192.3	9244.0	9625.8	8585.7	7423.5	6766.5	6437.4	6398.8
75°	4688.8	4834.1	5399.8	6343.5	7820.7	8293.9	7328.3	5960.4	5133.7	4859.8	4817.4
77.5°	1567.2	1679.1	2181.8	3596.0	5331.7	6042.7	5339.4	3898.2	2757.8	2221.6	2231.9
80°	415.3	410.1	531.0	988.7	2303.9	3499.6	2681.9	1320.4	722.5	523.3	496.3
82.5°	149.1	167.1	214.7	273.8	610.7	1087.7	767.5	370.3	271.3	200.6	194.1
85°	65.6	64.3	92.6	109.3	153.0	203.1	180.0	156.9	137.6	91.3	84.9
87.5°	14.1	14.1	21.9	16.7	27.0	27.0	33.4	39.9	41.1	27.0	21.9
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)