

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: P529789

Luminaire Tested: **GALN-SA5A-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529789
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-SA5A-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA 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: 12378 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G0

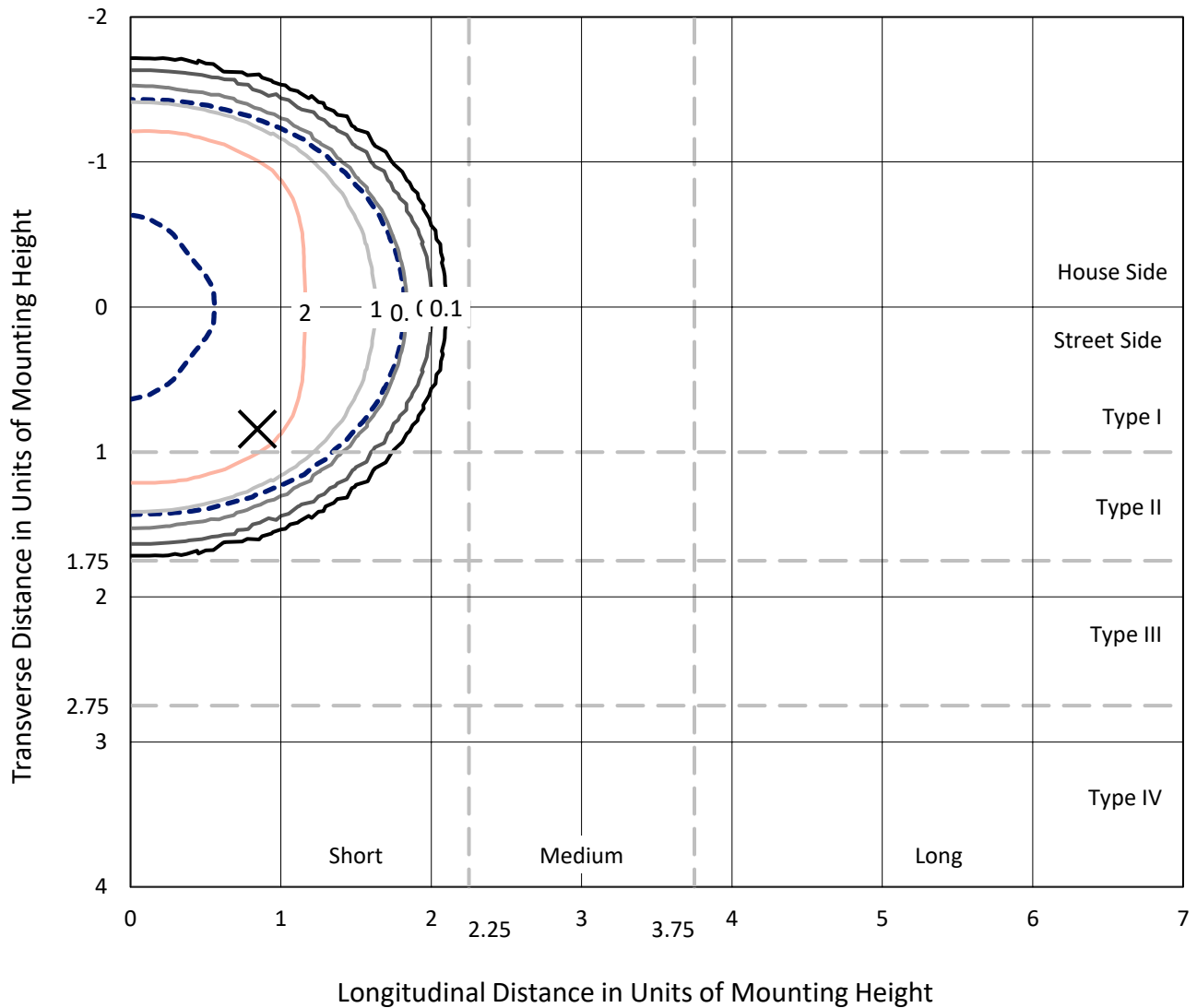
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

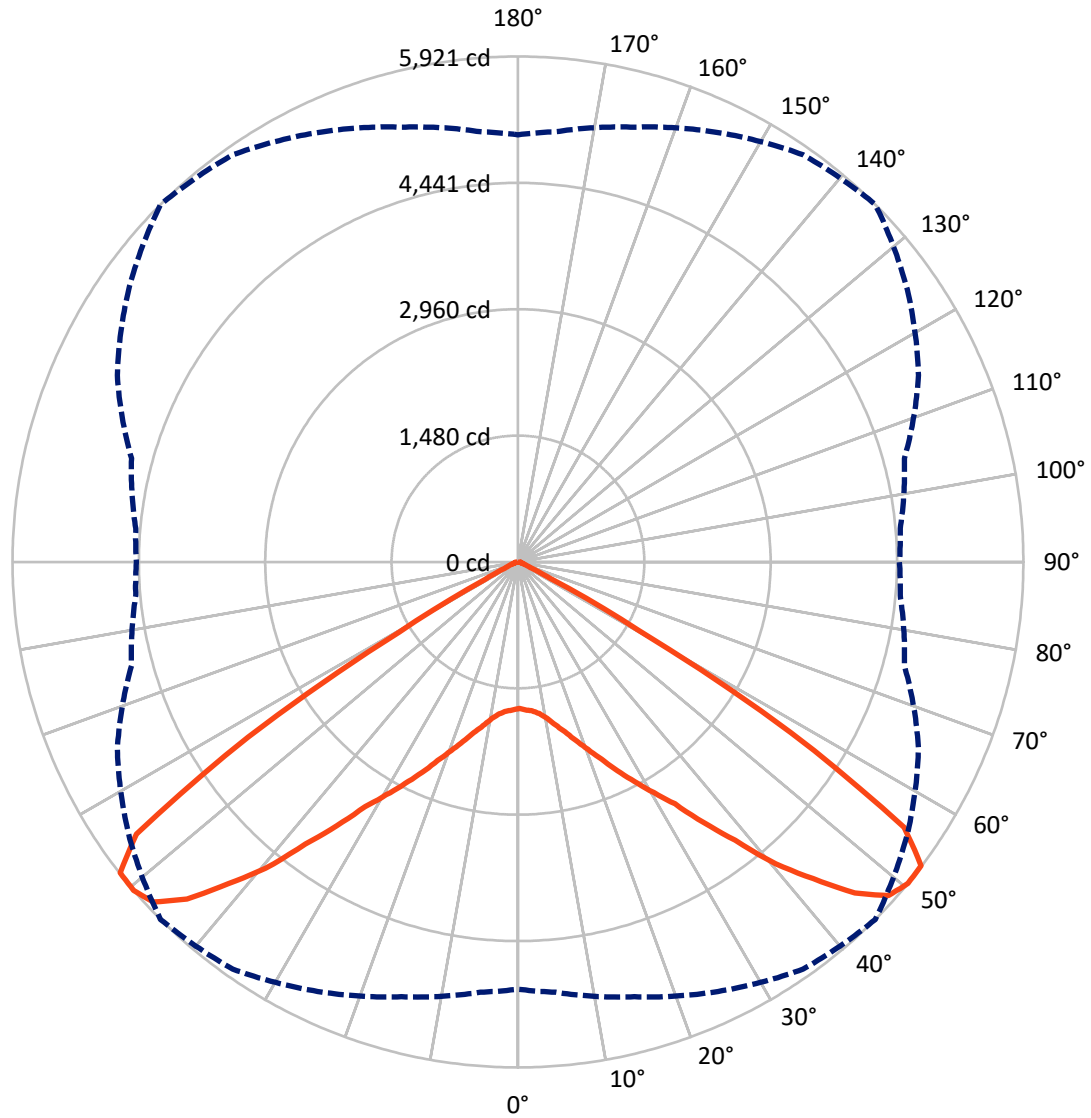
✕ Max cd
 - - - 1/2 Max cd



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 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6189.0	0.0	6189.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6189.0	0.0	6189.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12378.0	0.0	12378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	1.4
10°-20°	588.4	4.8
20°-30°	1201.8	9.7
30°-40°	2291.8	18.5
40°-50°	3862.0	31.2
50°-60°	3683.1	29.8
60°-70°	514.1	4.2
70°-80°	49.2	0.4
80°-90°	17.0	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°	12378.0	100.0
0°-180°	12378.0	100.0

Coefficient of Utilization



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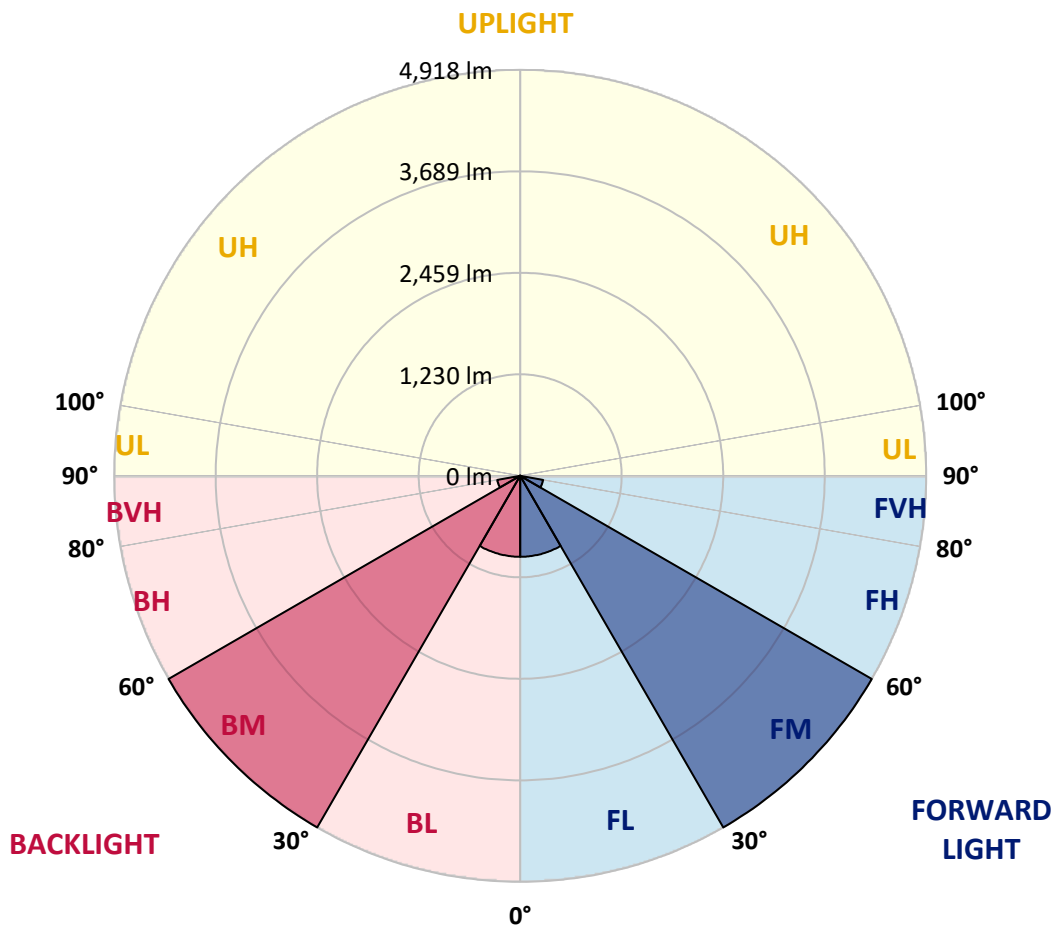
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	980.5	7.9			
FM (30°-60°)	4918.4	39.7			
FH (60°-80°)	281.7	2.3			G0/660
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	980.5	7.9	B2/1000		
BM (30°-60°)	4918.4	39.7	B3/5000		
BH (60°-80°)	281.7	2.3	B1/500		G0/660
BVH (80°-90°)	8.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G0

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1716.1	1716.1	1716.1	1716.1	1716.1	1716.1	1716.1	1716.1	1716.1	1716.1	1716.1
2.5°	1709.8	1709.8	1707.7	1724.4	1716.1	1734.8	1732.7	1739.0	1745.2	1743.1	1759.8
5°	1695.2	1693.2	1693.2	1711.9	1730.7	1751.5	1770.2	1782.7	1803.5	1803.5	1824.4
7.5°	1709.8	1699.4	1714.0	1722.3	1757.7	1793.1	1824.4	1849.4	1897.3	1913.9	1907.7
10°	1714.0	1726.5	1736.9	1761.9	1805.6	1859.8	1886.8	1949.3	2003.5	2041.0	2049.3
12.5°	1741.1	1759.8	1789.0	1849.4	1888.9	1959.7	1997.2	2057.6	2132.6	2174.2	2203.4
15°	1793.1	1799.4	1836.9	1913.9	1999.3	2063.9	2122.2	2165.9	2238.8	2286.7	2288.8
17.5°	1859.8	1886.8	1938.9	2011.8	2101.4	2197.2	2243.0	2290.9	2317.9	2382.5	2397.1
20°	1993.1	1997.2	2047.2	2143.0	2255.5	2342.9	2376.3	2401.3	2390.8	2457.5	2470.0
22.5°	2118.0	2122.2	2184.7	2313.8	2434.6	2509.5	2524.1	2509.5	2478.3	2526.2	2530.4
25°	2245.1	2282.5	2328.4	2457.5	2607.4	2707.4	2709.5	2669.9	2605.3	2613.7	2634.5
27.5°	2442.9	2470.0	2517.9	2636.6	2801.1	2913.6	2894.8	2846.9	2763.6	2769.9	2763.6
30°	2674.1	2699.1	2738.6	2890.7	3011.5	3134.3	3161.4	3115.6	2990.6	2963.6	2994.8
32.5°	2953.1	2988.6	3061.4	3201.0	3303.0	3378.0	3396.7	3380.1	3263.5	3253.0	3273.9
35°	3292.6	3340.5	3407.2	3530.0	3613.3	3748.7	3748.7	3692.5	3586.3	3598.8	3596.7
37.5°	3650.8	3721.6	3825.8	3950.7	4063.2	4136.1	4113.2	4065.3	3959.0	3932.0	3959.0
40°	4100.7	4136.1	4267.3	4429.7	4567.2	4650.5	4552.6	4448.5	4194.4	4234.0	4306.8
42.5°	4510.9	4567.2	4667.1	4846.2	5002.4	5071.2	4954.5	4748.4	4442.2	4411.0	4465.1
45°	4860.8	4921.2	5052.4	5308.6	5473.1	5533.5	5275.3	4942.0	4592.2	4513.0	4535.9
47.5°	5094.1	5125.3	5308.6	5552.2	5702.2	5839.6	5468.9	5075.3	4663.0	4513.0	4504.7
50°	5004.5	5058.7	5273.2	5550.2	5823.0	5920.9	5566.8	5177.4	4685.9	4494.3	4469.3
52.5°	4444.3	4538.0	4777.5	5150.3	5562.7	5912.5	5702.2	5144.1	4677.5	4513.0	4550.5
55°	3092.7	3094.8	3386.3	3936.1	4665.1	5489.8	5504.3	5181.5	4731.7	4629.6	4631.7
57.5°	1243.3	1305.8	1528.6	2080.5	2753.2	3769.5	4481.8	4806.7	4737.9	4713.0	4777.5
60°	314.5	316.6	385.3	587.3	968.4	1616.1	2347.1	3176.0	3657.1	3821.6	3844.5
62.5°	160.4	162.4	179.1	208.3	264.5	433.2	770.6	1222.5	1739.0	2001.4	2070.1
65°	131.2	131.2	141.6	156.2	158.3	166.6	199.9	285.3	414.4	470.7	476.9
67.5°	100.0	100.0	108.3	116.6	120.8	118.7	114.5	118.7	143.7	137.5	133.3
70°	62.5	64.6	68.7	77.1	81.2	83.3	85.4	89.6	102.0	106.2	102.0
72.5°	37.5	37.5	39.6	45.8	52.1	56.2	62.5	66.6	72.9	83.3	81.2
75°	16.7	16.7	20.8	27.1	33.3	39.6	45.8	52.1	56.2	62.5	64.6
77.5°	4.2	6.2	10.4	18.7	25.0	33.3	41.7	47.9	52.1	52.1	50.0
80°	2.1	2.1	8.3	14.6	27.1	35.4	45.8	50.0	56.2	52.1	45.8
82.5°	2.1	2.1	8.3	14.6	25.0	35.4	47.9	54.1	58.3	52.1	43.7
85°	0.0	2.1	6.2	12.5	20.8	25.0	20.8	14.6	8.3	8.3	6.2
87.5°	0.0	0.0	2.1	2.1	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)