

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: P531657

Luminaire Tested: **GALN-SA7A-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531657
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13895 lumens
Efficiency: N/A
Efficacy: 64.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

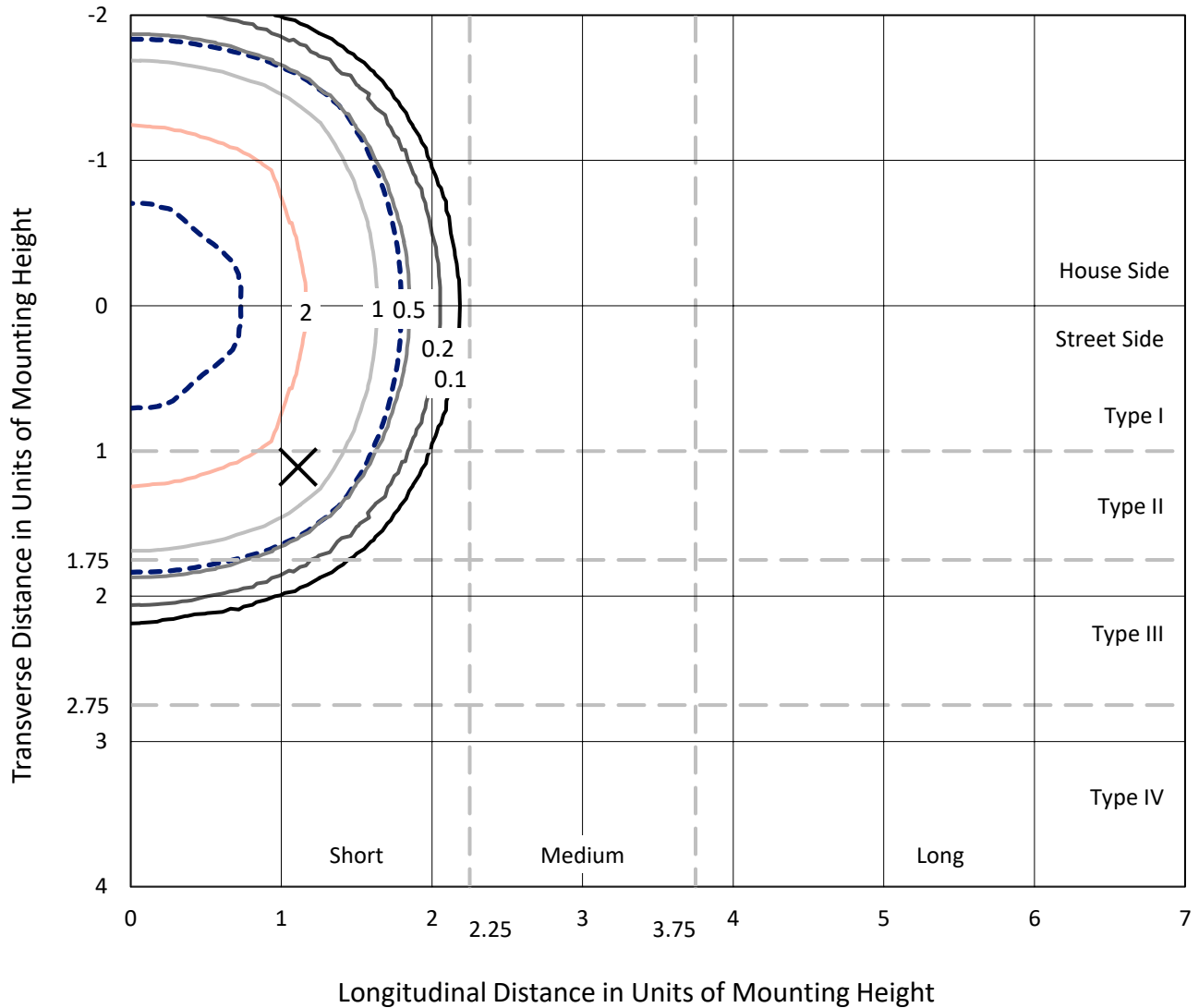
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

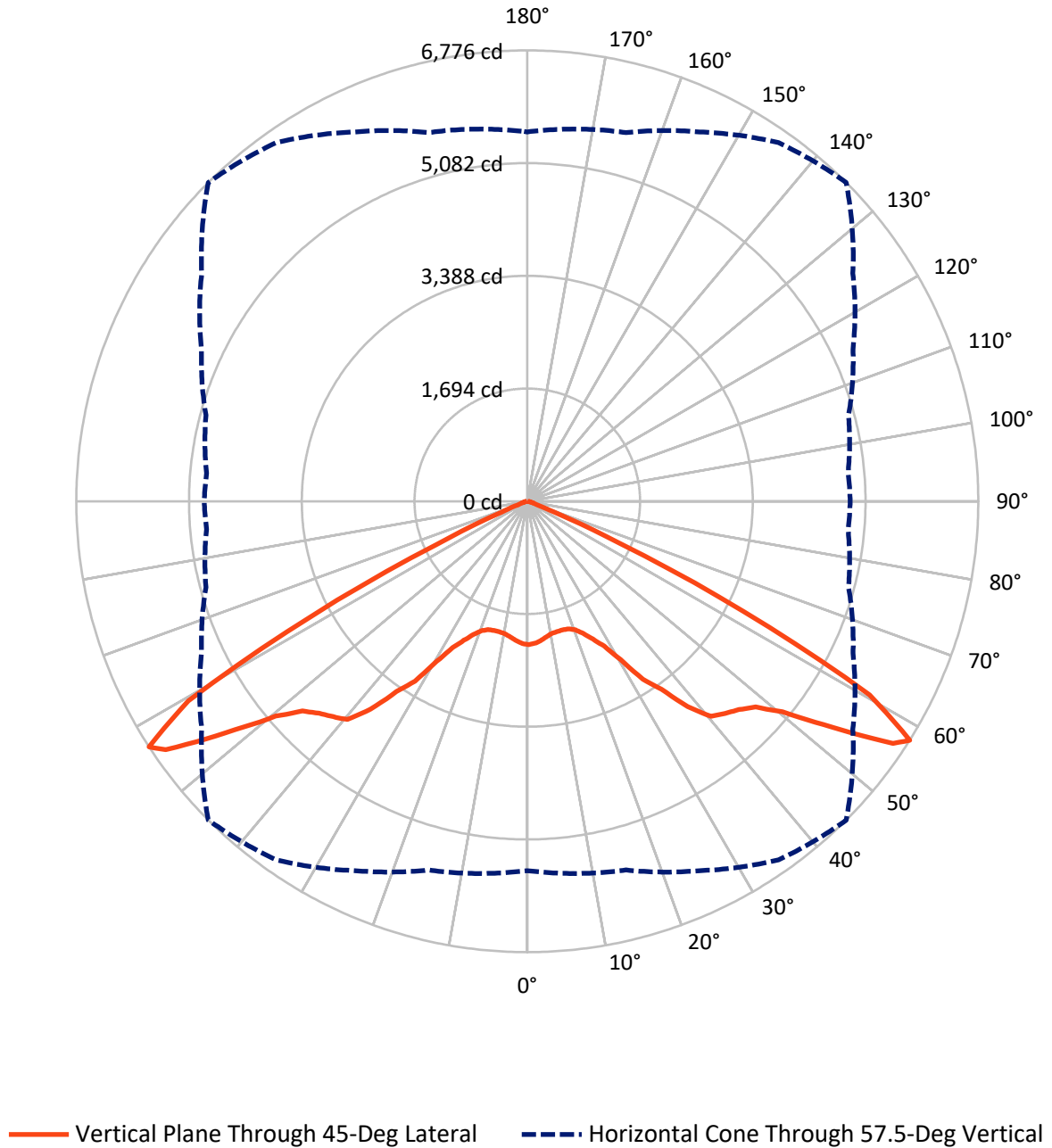
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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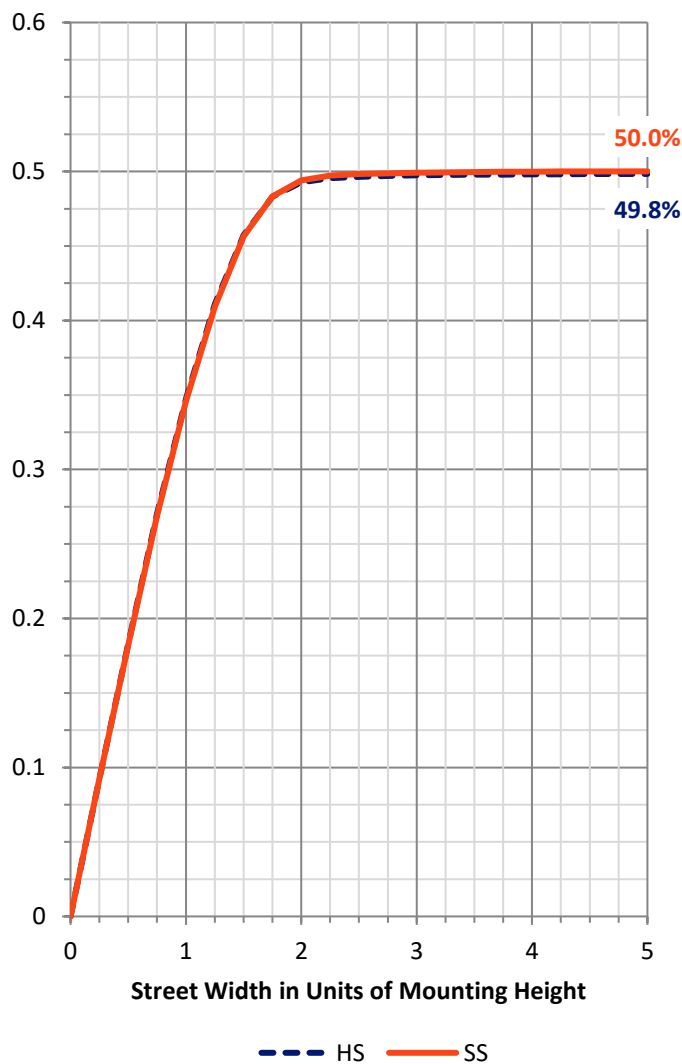
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6947.5	0.0	6947.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6947.5	0.0	6947.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13895.0	0.0	13895.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.1	1.4
10°-20°	572.5	4.1
20°-30°	1056.7	7.6
30°-40°	2078.2	15.0
40°-50°	3384.8	24.4
50°-60°	4827.1	34.7
60°-70°	1671.3	12.0
70°-80°	89.6	0.6
80°-90°	16.8	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°	13895.0	100.0
0°-180°	13895.0	100.0

Coefficient of Utilization



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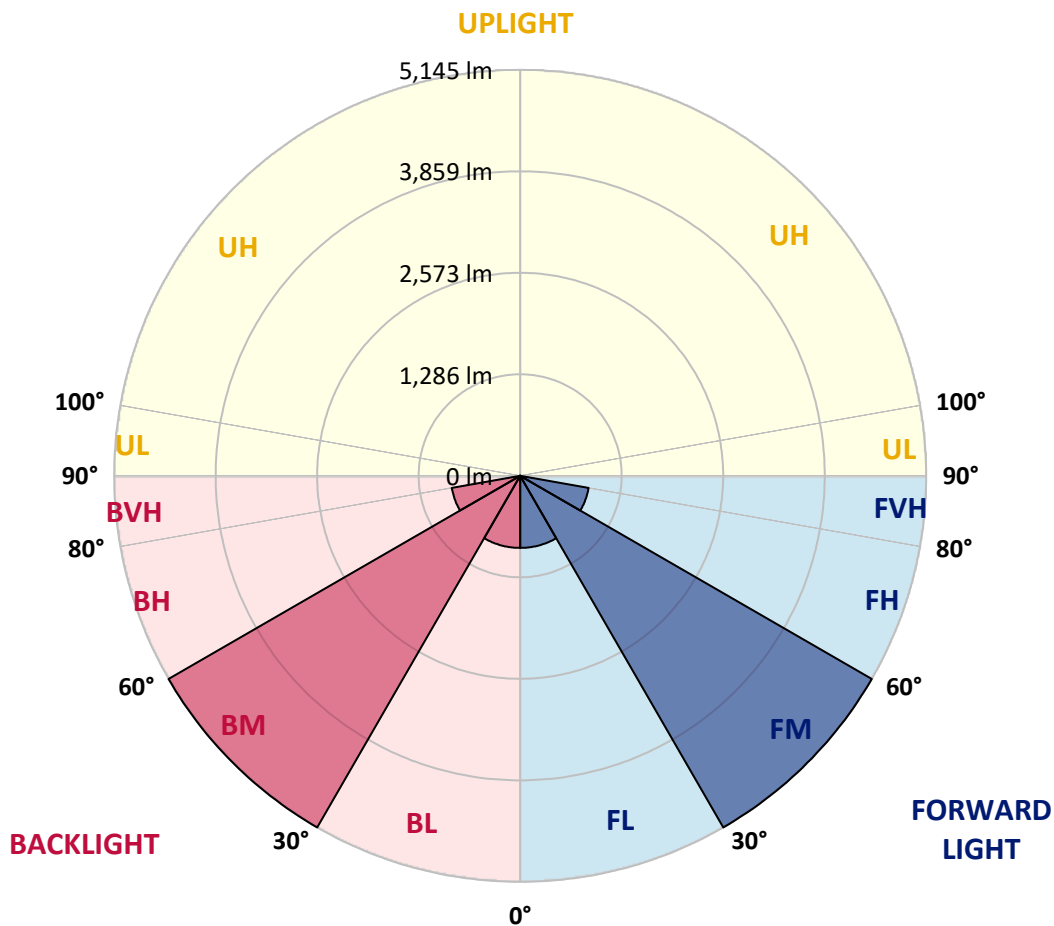
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	913.6	6.6			
FM (30°-60°)	5145.0	37.0			
FH (60°-80°)	880.5	6.3			G1/1800
FVH (80°-90°)	8.4	0.1			G0/10
BL (0°-30°)	913.6	6.6	B2/1000		
BM (30°-60°)	5145.0	37.0	B4/8500		
BH (60°-80°)	880.5	6.3	B2/1000		G1/1800
BVH (80°-90°)	8.4	0.1			G0/10
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°	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3	2155.3
2.5°	2149.5	2161.1	2146.6	2140.8	2137.9	2137.9	2129.2	2129.2	2126.3	2129.2	2117.6
5°	2114.7	2126.3	2126.3	2123.4	2106.0	2103.1	2094.4	2088.6	2091.5	2079.9	2088.6
7.5°	2079.9	2088.6	2077.0	2074.1	2068.4	2056.8	2053.9	2027.8	2030.7	2030.7	2036.5
10°	2074.1	2071.3	2053.9	2039.4	2022.0	2019.1	2010.4	2004.6	2004.6	2001.7	2010.4
12.5°	2074.1	2059.7	2056.8	2024.9	1995.9	2007.5	1984.3	1969.9	1990.1	1995.9	2007.5
15°	2071.3	2085.7	2036.5	2022.0	2001.7	2004.6	1984.3	1969.9	1981.4	1987.2	1995.9
17.5°	2088.6	2079.9	2065.5	2036.5	2027.8	2016.2	1990.1	1978.6	1978.6	1993.0	1995.9
20°	2135.0	2111.8	2082.8	2068.4	2077.0	2062.6	2030.7	1987.2	1998.8	2010.4	2019.1
22.5°	2178.4	2161.1	2140.8	2132.1	2181.3	2158.2	2103.1	2053.9	2036.5	2056.8	2071.3
25°	2262.4	2262.4	2224.8	2236.4	2291.4	2294.3	2230.6	2143.7	2132.1	2140.8	2146.6
27.5°	2433.4	2442.0	2410.2	2421.8	2444.9	2465.2	2410.2	2337.8	2311.7	2308.8	2317.5
30°	2618.8	2636.1	2633.2	2682.5	2749.1	2760.7	2679.6	2560.8	2482.6	2468.1	2479.7
32.5°	2862.1	2870.8	2865.0	2922.9	3102.5	3186.5	2975.1	2807.1	2702.8	2728.8	2702.8
35°	3319.8	3311.1	3247.4	3259.0	3406.7	3467.5	3264.8	3157.6	3108.3	3160.5	3148.9
37.5°	3713.8	3681.9	3629.8	3705.1	3858.6	3913.7	3702.2	3513.9	3424.1	3511.0	3548.6
40°	4046.9	3965.8	3893.4	3968.7	4174.4	4249.7	3939.7	3786.2	3751.4	3815.2	3896.3
42.5°	4327.9	4275.8	4180.2	4186.0	4322.1	4356.9	4107.7	4017.9	3983.2	4084.6	4125.1
45°	4527.8	4478.5	4388.7	4382.9	4487.2	4464.1	4241.0	4180.2	4200.4	4267.1	4287.3
47.5°	4629.2	4655.2	4603.1	4617.6	4672.6	4617.6	4440.9	4440.9	4394.5	4435.1	4414.8
50°	4921.8	4840.6	4907.3	4907.3	4965.2	4971.0	4794.3	4730.6	4606.0	4536.5	4536.5
52.5°	5263.6	5269.4	5295.5	5391.0	5489.5	5573.5	5321.5	5049.2	4840.6	4750.8	4739.3
55°	5544.6	5602.5	5706.8	5886.4	6170.3	6286.2	5851.6	5365.0	5110.1	4971.0	4942.0
56°	5698.1	5643.1	5822.7	6068.9	6439.7	6590.3	5938.6	5428.7	5147.7	4991.3	4988.4
57.5°	5550.4	5611.2	5735.8	6124.0	6578.8	6775.7	5970.4	5399.7	4997.1	4837.7	4852.2
60°	4382.9	4440.9	4608.9	5043.4	5756.1	5909.6	5052.1	4452.5	4093.3	3864.4	3867.3
62.5°	2479.7	2523.2	2653.5	3056.2	3499.4	3647.1	3148.9	2749.1	2500.0	2372.5	2332.0
65°	912.5	895.1	915.4	1121.1	1393.4	1518.0	1309.4	1106.6	976.2	929.9	912.5
67.5°	341.8	315.8	295.5	315.8	396.9	420.0	385.3	321.6	301.3	310.0	315.8
70°	211.5	199.9	159.3	150.6	147.7	144.8	153.5	162.2	185.4	217.3	223.1
72.5°	147.7	139.0	113.0	107.2	101.4	98.5	113.0	124.6	144.8	168.0	170.9
75°	57.9	60.8	57.9	63.7	66.6	69.5	81.1	89.8	98.5	98.5	95.6
77.5°	11.6	11.6	17.4	23.2	29.0	37.7	55.0	63.7	66.6	63.7	55.0
80°	0.0	0.0	5.8	11.6	23.2	31.9	49.2	55.0	60.8	55.0	43.5
82.5°	0.0	0.0	5.8	14.5	23.2	29.0	46.3	57.9	66.6	60.8	46.3
85°	0.0	0.0	5.8	11.6	17.4	20.3	20.3	14.5	14.5	8.7	5.8
87.5°	0.0	0.0	0.0	0.0	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)