

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: P651989

Luminaire Tested: **GALN-SA7A-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651989  
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-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 4000K, 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: 13973.2 lumens  
Efficiency: N/A  
Efficacy: 65.0 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

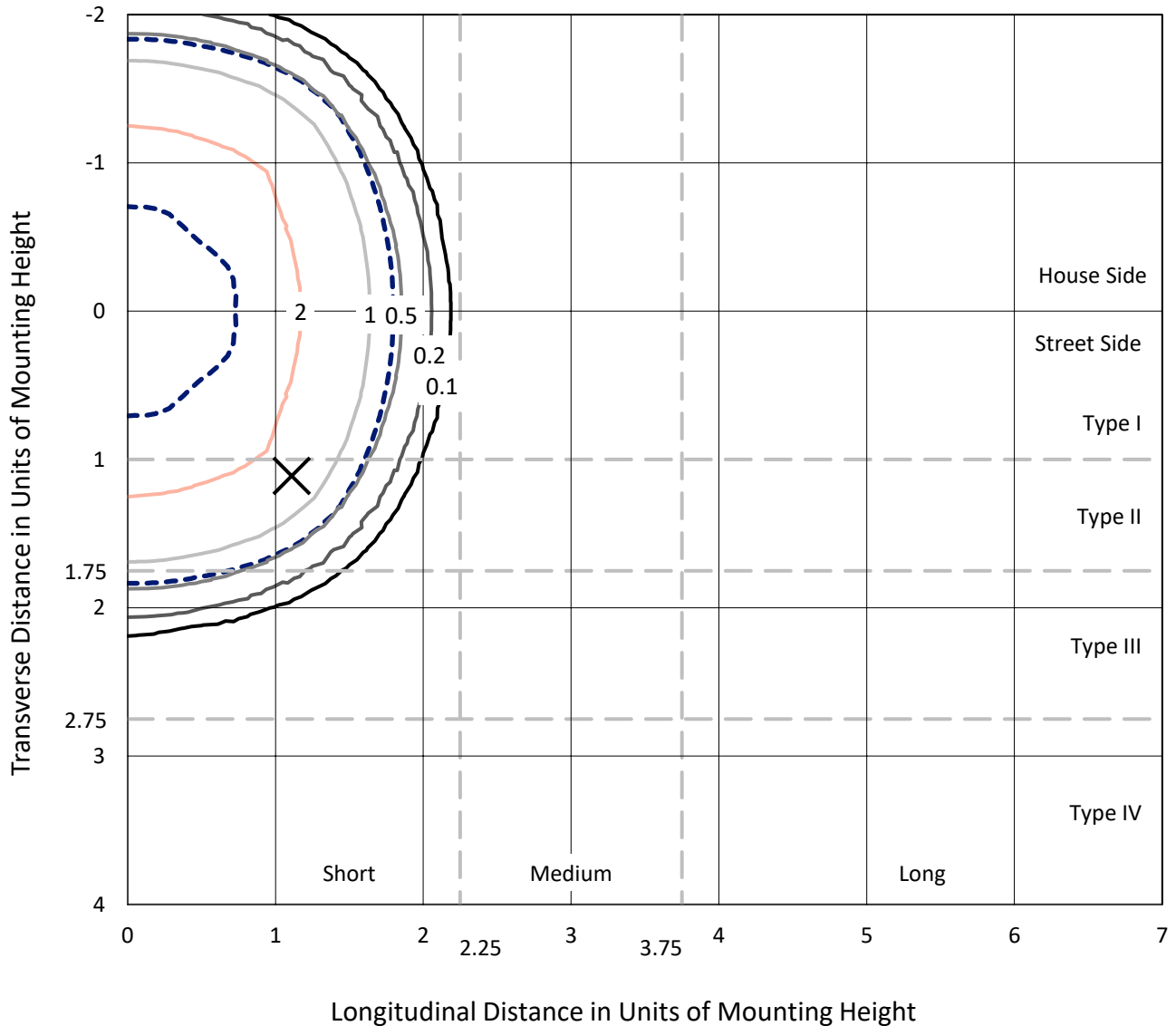
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

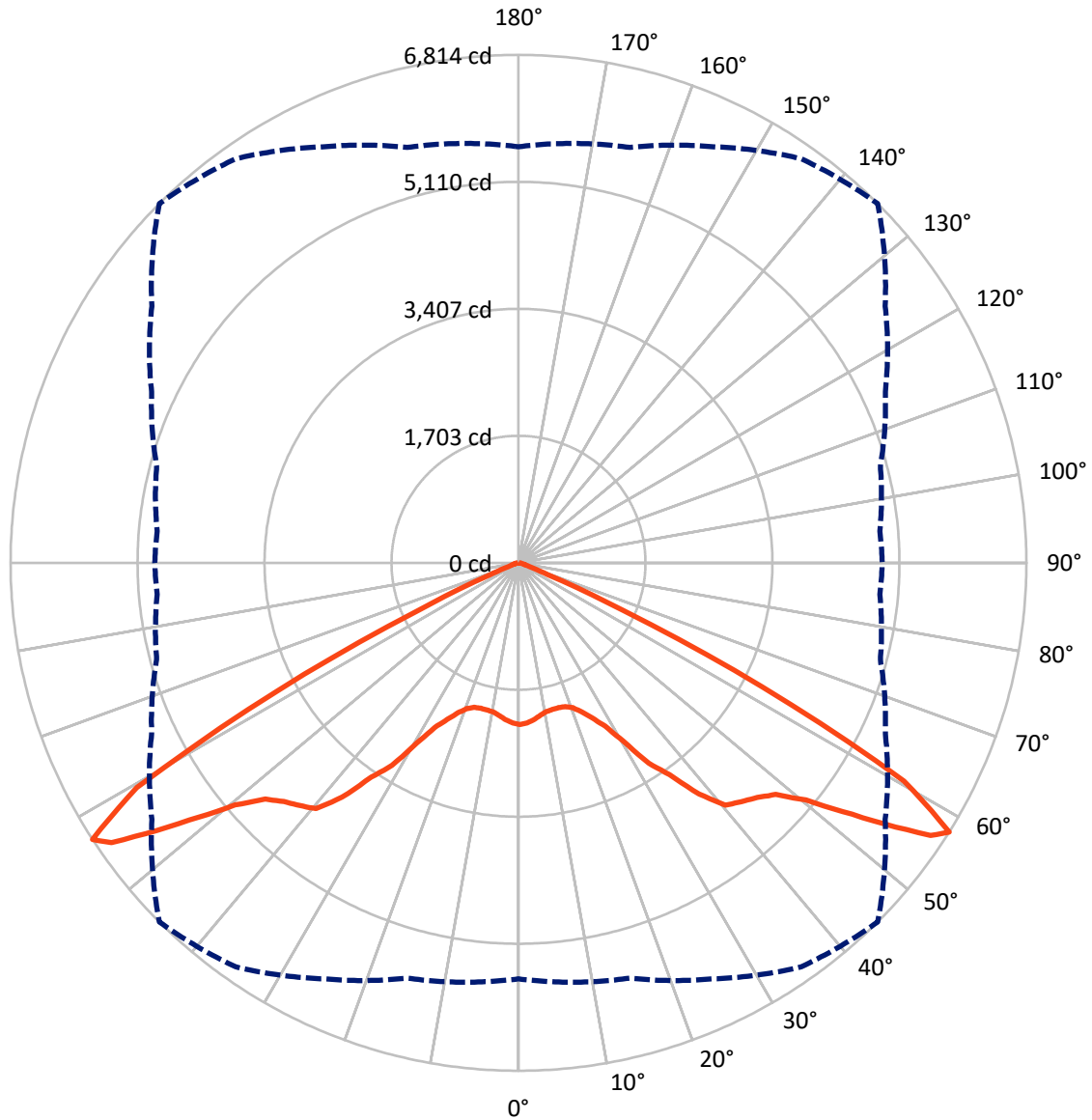
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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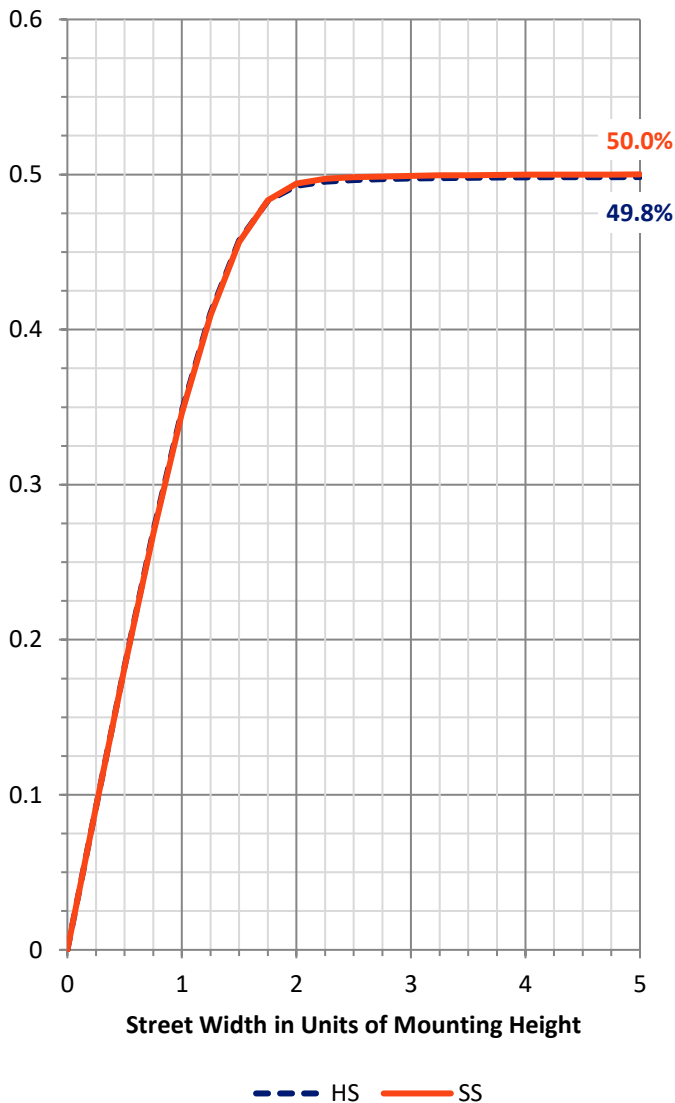
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6986.6	0.0	6986.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6986.6	0.0	6986.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13973.2	0.0	13973.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.2	1.4
10°-20°	575.7	4.1
20°-30°	1062.7	7.6
30°-40°	2089.9	15.0
40°-50°	3403.8	24.4
50°-60°	4854.3	34.7
60°-70°	1680.7	12.0
70°-80°	90.2	0.6
80°-90°	16.9	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°	13973.2	100.0
0°-180°	13973.2	100.0



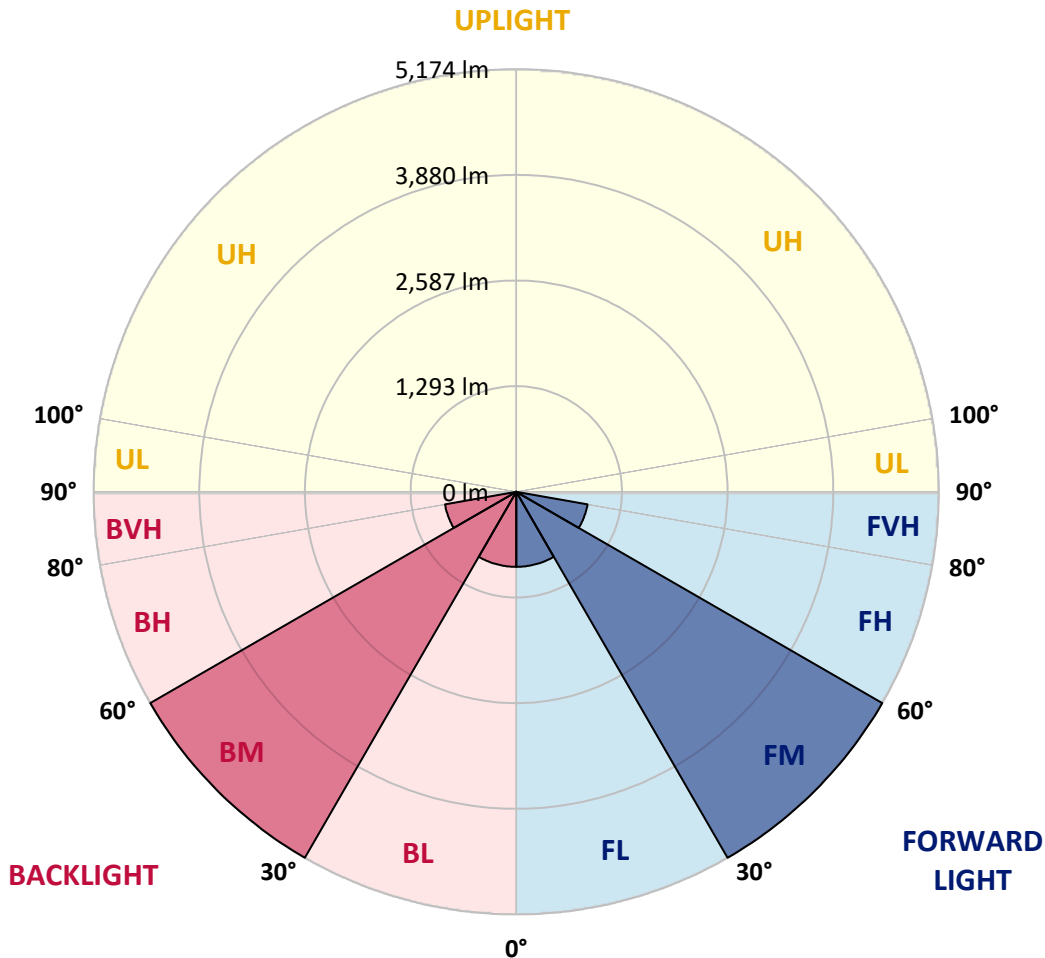
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.8	6.6			
FM (30°-60°)	5174.0	37.0			
FH (60°-80°)	885.4	6.3			G1/1800
FVH (80°-90°)	8.5	0.1			G0/10
BL (0°-30°)	918.8	6.6	B2/1000		
BM (30°-60°)	5174.0	37.0	B4/8500		
BH (60°-80°)	885.4	6.3	B2/1000		G1/1800
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: 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°	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4	2167.4
2.5°	2161.5	2173.2	2158.7	2152.8	2149.9	2149.9	2141.2	2141.2	2138.2	2141.2	2129.5
5°	2126.6	2138.2	2138.2	2135.4	2117.9	2114.9	2106.2	2100.4	2103.3	2091.7	2100.4
7.5°	2091.7	2100.4	2088.7	2085.8	2080.0	2068.4	2065.4	2039.2	2042.1	2042.1	2047.9
10°	2085.8	2082.9	2065.4	2050.9	2033.4	2030.5	2021.8	2015.9	2015.9	2013.0	2021.8
12.5°	2085.8	2071.3	2068.4	2036.3	2007.1	2018.8	1995.5	1981.0	2001.3	2007.1	2018.8
15°	2082.9	2097.5	2047.9	2033.4	2013.0	2015.9	1995.5	1981.0	1992.6	1998.5	2007.1
17.5°	2100.4	2091.7	2077.1	2047.9	2039.2	2027.6	2001.3	1989.7	1989.7	2004.3	2007.1
20°	2147.0	2123.7	2094.6	2080.0	2088.7	2074.2	2042.1	1998.5	2010.1	2021.8	2030.5
22.5°	2190.7	2173.2	2152.8	2144.0	2193.6	2170.3	2114.9	2065.4	2047.9	2068.4	2082.9
25°	2275.2	2275.2	2237.3	2249.0	2304.3	2307.2	2243.1	2155.7	2144.0	2152.8	2158.7
27.5°	2447.1	2455.8	2423.8	2435.4	2458.7	2479.1	2423.8	2350.9	2324.7	2321.7	2330.5
30°	2633.5	2651.0	2648.1	2697.6	2764.6	2776.2	2694.6	2575.2	2496.6	2482.0	2493.6
32.5°	2878.2	2887.0	2881.1	2939.4	3120.0	3204.5	2991.9	2822.8	2717.9	2744.2	2717.9
35°	3338.5	3329.8	3265.7	3277.3	3425.9	3487.0	3283.1	3175.4	3125.8	3178.2	3166.6
37.5°	3734.7	3702.6	3650.2	3726.0	3880.3	3935.7	3723.0	3533.6	3443.4	3530.8	3568.6
40°	4069.7	3988.1	3915.3	3991.0	4197.9	4273.6	3961.9	3807.5	3772.6	3836.6	3918.2
42.5°	4352.3	4299.9	4203.7	4209.5	4346.5	4381.4	4130.8	4040.6	4005.6	4107.5	4148.3
45°	4553.3	4503.7	4413.4	4407.6	4512.5	4489.2	4264.9	4203.7	4224.1	4291.1	4311.5
47.5°	4655.3	4681.4	4629.0	4643.6	4698.9	4643.6	4465.9	4465.9	4419.3	4460.1	4439.6
50°	4949.5	4867.9	4934.9	4934.9	4993.2	4999.0	4821.3	4757.2	4631.9	4562.0	4562.0
52.5°	5293.3	5299.1	5325.3	5421.4	5520.4	5604.9	5351.5	5077.6	4867.9	4777.6	4765.9
55°	5575.8	5634.0	5738.9	5919.5	6205.1	6321.5	5884.6	5395.2	5138.8	4999.0	4969.9
56°	5730.2	5674.8	5855.5	6103.1	6476.0	6627.4	5971.9	5459.3	5176.7	5019.3	5016.5
57.5°	5581.6	5642.8	5768.1	6158.4	6615.8	6813.9	6004.1	5430.2	5025.2	4865.0	4879.6
60°	4407.6	4465.9	4634.8	5071.8	5788.4	5942.8	5080.6	4477.6	4116.3	3886.2	3889.0
62.5°	2493.6	2537.4	2668.5	3073.4	3519.1	3667.7	3166.6	2764.6	2514.1	2385.9	2345.1
65°	917.6	900.2	920.6	1127.4	1401.2	1526.5	1316.8	1112.8	981.7	935.1	917.6
67.5°	343.7	317.6	297.1	317.6	399.1	422.4	387.4	323.4	302.9	311.7	317.6
70°	212.7	201.0	160.2	151.5	148.6	145.7	154.4	163.2	186.4	218.5	224.3
72.5°	148.6	139.9	113.6	107.8	101.9	99.1	113.6	125.2	145.7	169.0	171.9
75°	58.3	61.1	58.3	64.1	67.0	69.9	81.6	90.3	99.1	99.1	96.1
77.5°	11.7	11.7	17.5	23.3	29.1	37.8	55.3	64.1	67.0	64.1	55.3
80°	0.0	0.0	5.8	11.7	23.3	32.0	49.5	55.3	61.1	55.3	43.7
82.5°	0.0	0.0	5.8	14.5	23.3	29.1	46.6	58.3	67.0	61.1	46.6
85°	0.0	0.0	5.8	11.7	17.5	20.4	20.4	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)