

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: P528613

Luminaire Tested: **GALN-SA3D-727-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-727-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13268 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

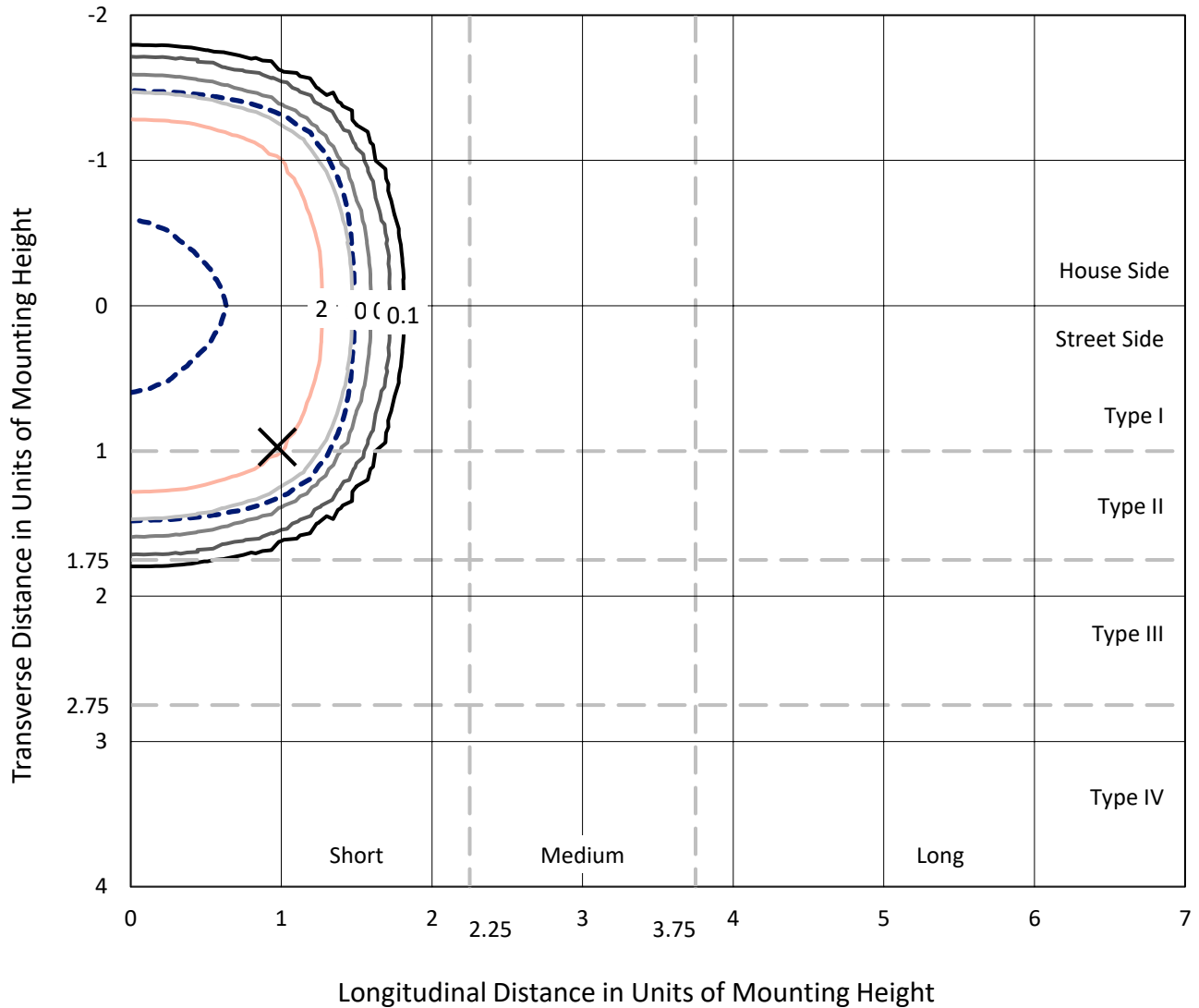
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

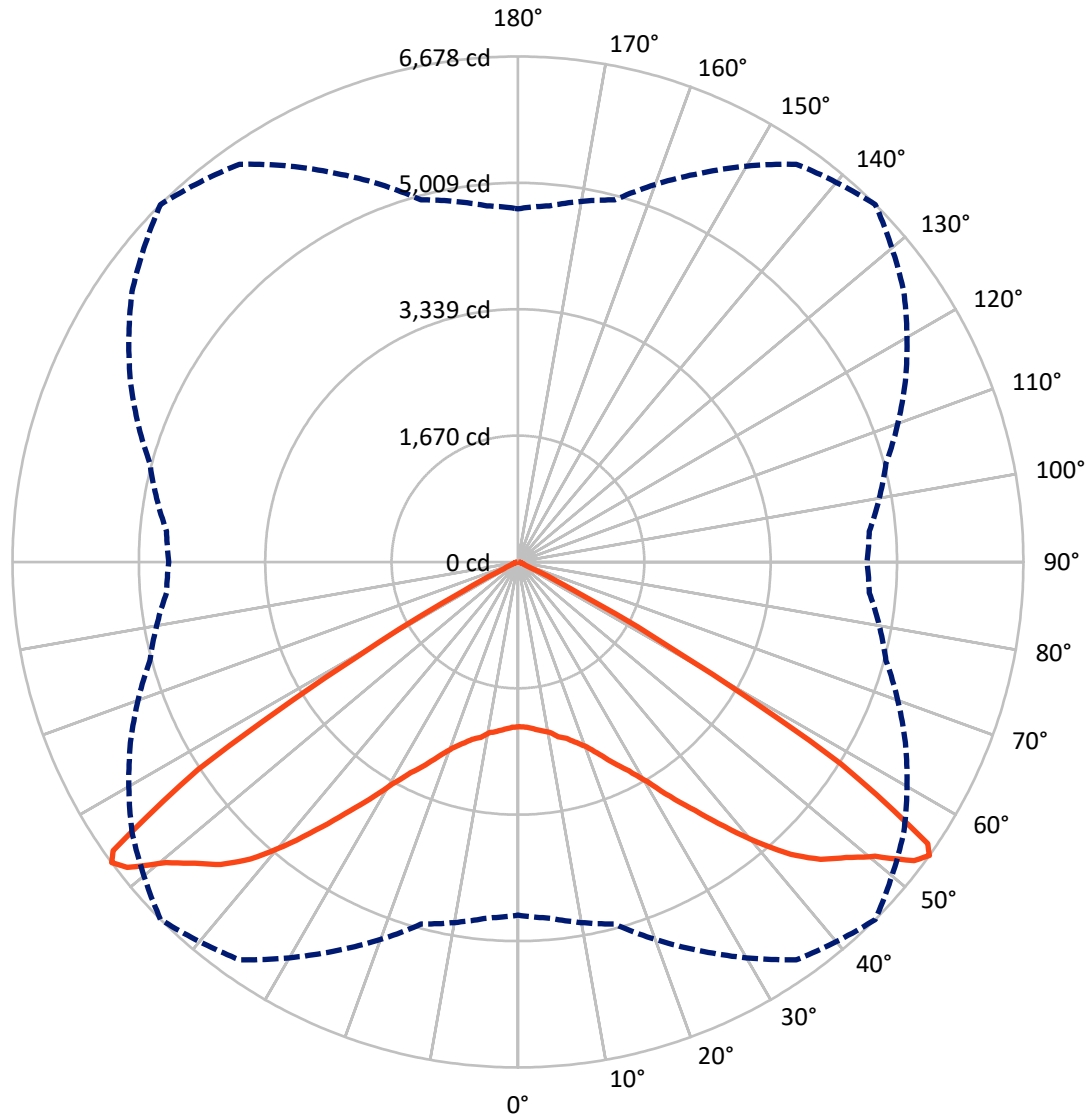
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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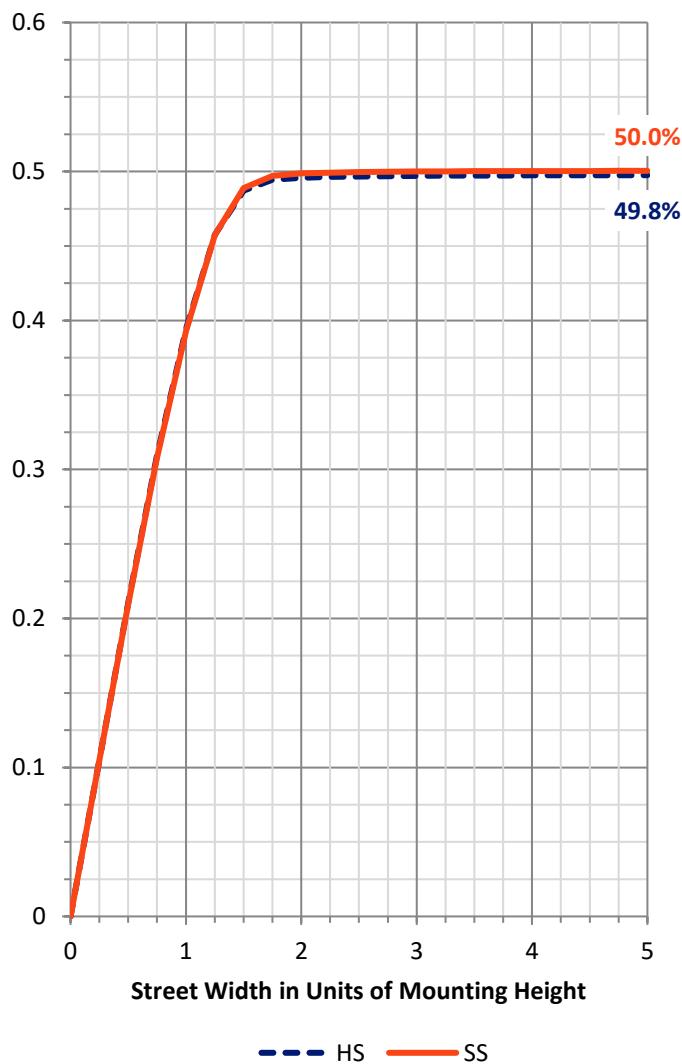
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6634.0	0.0	6634.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6634.0	0.0	6634.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13268.0	0.0	13268.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.9	1.6
10°-20°	689.6	5.2
20°-30°	1351.5	10.2
30°-40°	2430.3	18.3
40°-50°	4160.2	31.4
50°-60°	4025.3	30.3
60°-70°	344.6	2.6
70°-80°	40.8	0.3
80°-90°	12.8	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°	13268.0	100.0
0°-180°	13268.0	100.0

**Coefficient of Utilization**



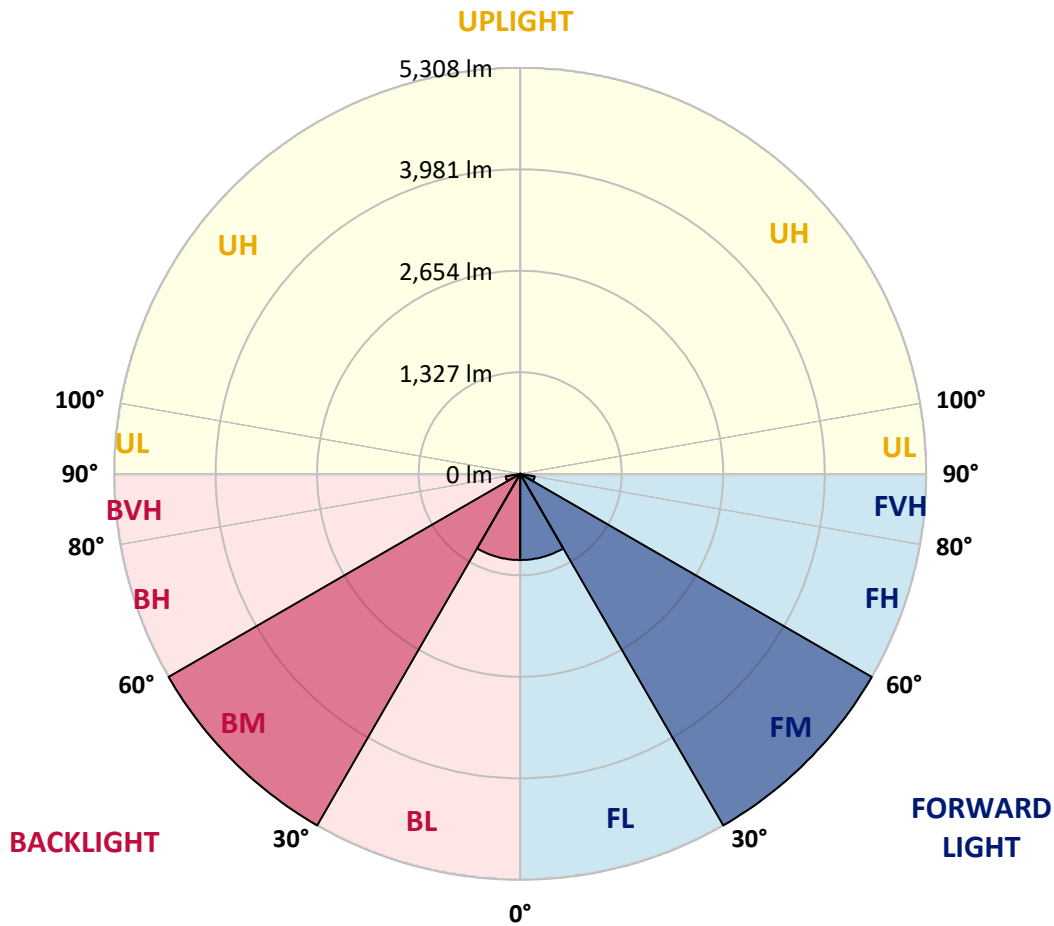
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.0	8.5			
FM (30°-60°)	5307.9	40.0			
FH (60°-80°)	192.7	1.5			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1127.0	8.5	B3/2500		
BM (30°-60°)	5307.9	40.0	B4/8500		
BH (60°-80°)	192.7	1.5	B1/500		G0/660
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5	2175.5
2.5°	2186.0	2198.7	2190.3	2196.6	2196.6	2186.0	2192.4	2167.1	2183.9	2171.3	2173.4
5°	2219.7	2217.6	2217.6	2219.7	2211.3	2215.5	2207.1	2198.7	2192.4	2183.9	2209.2
7.5°	2261.7	2261.7	2247.0	2251.2	2247.0	2253.3	2236.5	2219.7	2213.4	2207.1	2202.9
10°	2301.7	2297.5	2291.1	2310.1	2295.4	2286.9	2278.5	2268.0	2244.9	2236.5	2228.1
12.5°	2360.5	2358.4	2350.0	2368.9	2360.5	2368.9	2337.4	2310.1	2305.9	2278.5	2293.2
15°	2429.9	2448.8	2434.1	2434.1	2429.9	2419.4	2406.8	2394.1	2356.3	2345.8	2347.9
17.5°	2520.3	2514.0	2516.1	2516.1	2537.1	2509.8	2484.5	2453.0	2434.1	2427.8	2406.8
20°	2606.4	2614.9	2612.7	2627.5	2640.1	2610.6	2583.3	2579.1	2526.6	2535.0	2505.5
22.5°	2757.8	2751.5	2762.0	2772.5	2764.1	2759.9	2734.7	2703.1	2656.9	2635.9	2631.7
25°	2917.5	2907.0	2888.1	2913.3	2925.9	2944.9	2896.5	2879.7	2808.2	2776.7	2778.8
27.5°	3054.2	3068.9	3089.9	3100.4	3131.9	3125.6	3092.0	3037.3	2982.7	2947.0	2923.8
30°	3241.2	3249.6	3285.4	3300.1	3354.7	3369.5	3316.9	3253.8	3157.2	3110.9	3083.6
32.5°	3413.6	3472.5	3470.4	3543.9	3632.2	3693.2	3598.6	3501.9	3405.2	3350.5	3302.2
35°	3693.2	3682.7	3743.6	3821.4	3964.3	4033.7	3930.7	3819.3	3672.1	3583.9	3546.0
37.5°	3953.8	3958.0	4040.0	4164.0	4328.0	4435.2	4344.8	4161.9	4010.6	3897.1	3844.5
40°	4332.2	4340.6	4424.6	4565.5	4750.5	4866.1	4761.0	4576.0	4374.2	4285.9	4285.9
42.5°	4775.7	4811.4	4866.1	4988.0	5154.0	5282.2	5187.7	5042.6	4838.7	4725.2	4742.0
45°	5231.8	5248.6	5284.4	5465.1	5542.9	5606.0	5517.7	5450.4	5313.8	5175.0	5151.9
47.5°	5658.5	5664.8	5769.9	5826.7	5887.6	5835.1	5891.8	5803.5	5650.1	5515.6	5488.2
50°	5847.7	5837.2	5986.4	6158.8	6205.0	6112.5	6064.2	6005.3	5772.0	5610.2	5538.7
52.5°	5297.0	5357.9	5635.4	6114.6	6476.2	6553.9	6272.3	6001.1	5566.0	5250.7	5202.4
54°	4666.4	4723.1	4952.2	5662.7	6415.2	6678.0	6223.9	5648.0	5034.2	4660.1	4611.7
55°	4042.1	3979.0	4395.2	5120.4	6129.3	6568.7	6032.7	5191.9	4489.8	4147.2	4079.9
57.5°	2188.2	2198.7	2549.7	3234.9	4306.9	5036.3	4447.8	3512.4	2652.7	2268.0	2234.4
60°	693.6	710.5	863.9	1307.4	2057.8	2457.2	2106.2	1410.4	975.3	781.9	750.4
62.5°	216.5	224.9	245.9	365.7	563.3	805.1	630.6	378.4	281.7	258.5	262.7
65°	132.4	132.4	134.5	142.9	168.2	195.5	189.2	166.1	159.7	155.5	153.4
67.5°	86.2	84.1	88.3	94.6	98.8	100.9	107.2	113.5	111.4	107.2	107.2
70°	52.5	50.4	54.7	63.1	65.2	69.4	75.7	84.1	82.0	77.8	79.9
72.5°	29.4	29.4	31.5	37.8	44.1	48.3	54.7	61.0	63.1	61.0	61.0
75°	10.5	12.6	16.8	23.1	27.3	33.6	39.9	46.2	52.5	48.3	46.2
77.5°	4.2	4.2	8.4	14.7	21.0	27.3	37.8	44.1	48.3	44.1	39.9
80°	2.1	2.1	6.3	12.6	18.9	25.2	31.5	37.8	39.9	35.7	31.5
82.5°	2.1	2.1	6.3	12.6	18.9	23.1	33.6	37.8	42.0	37.8	31.5
85°	0.0	2.1	6.3	12.6	16.8	18.9	18.9	12.6	10.5	6.3	6.3
87.5°	0.0	0.0	2.1	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)