

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: P651271

Luminaire Tested: **GALN-SA3D-840-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651271  
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-840-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 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: 13342.4 lumens  
Efficiency: N/A  
Efficacy: 72.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

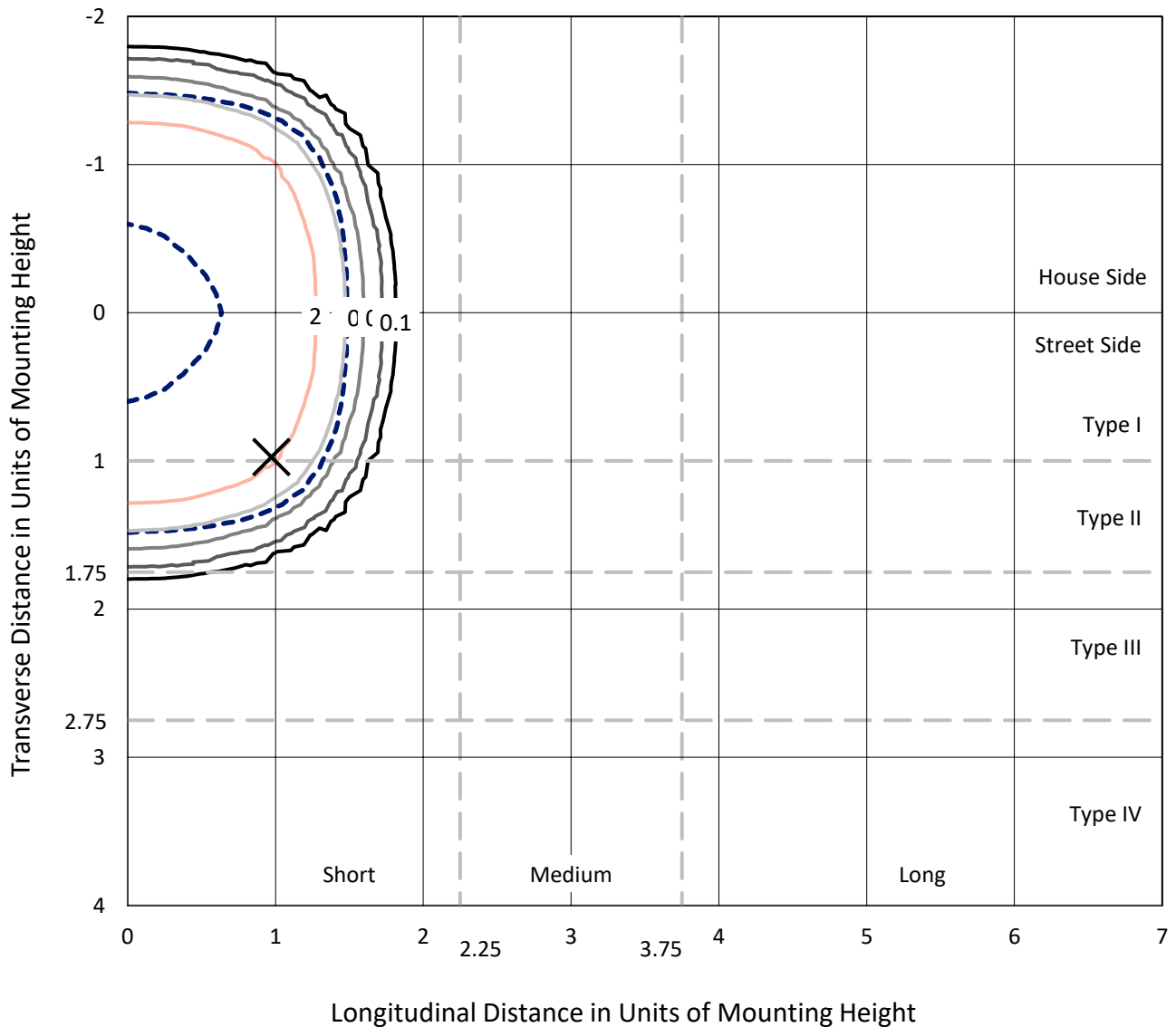
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

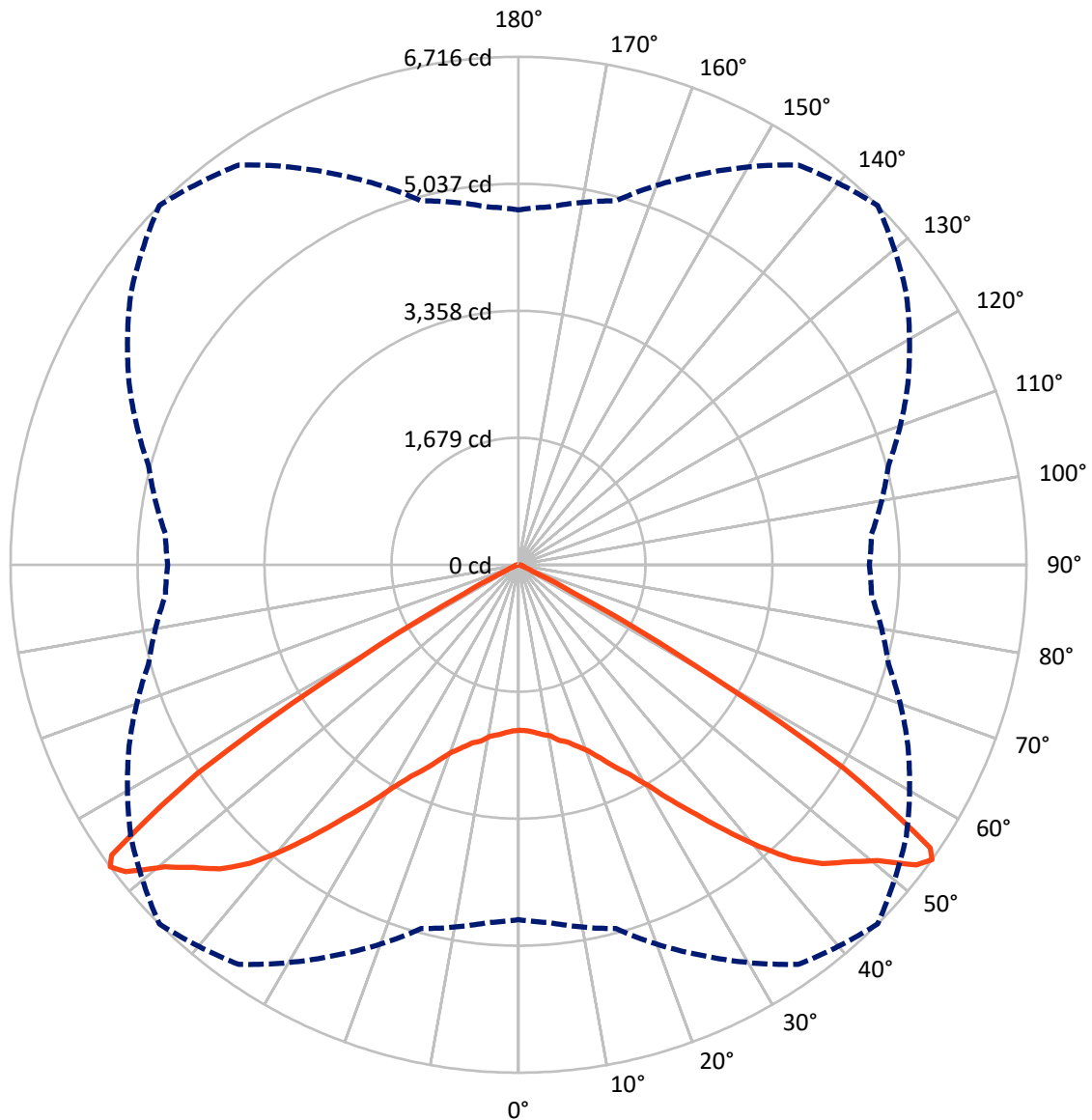
× Max cd  
 - - - 1/2 Max cd



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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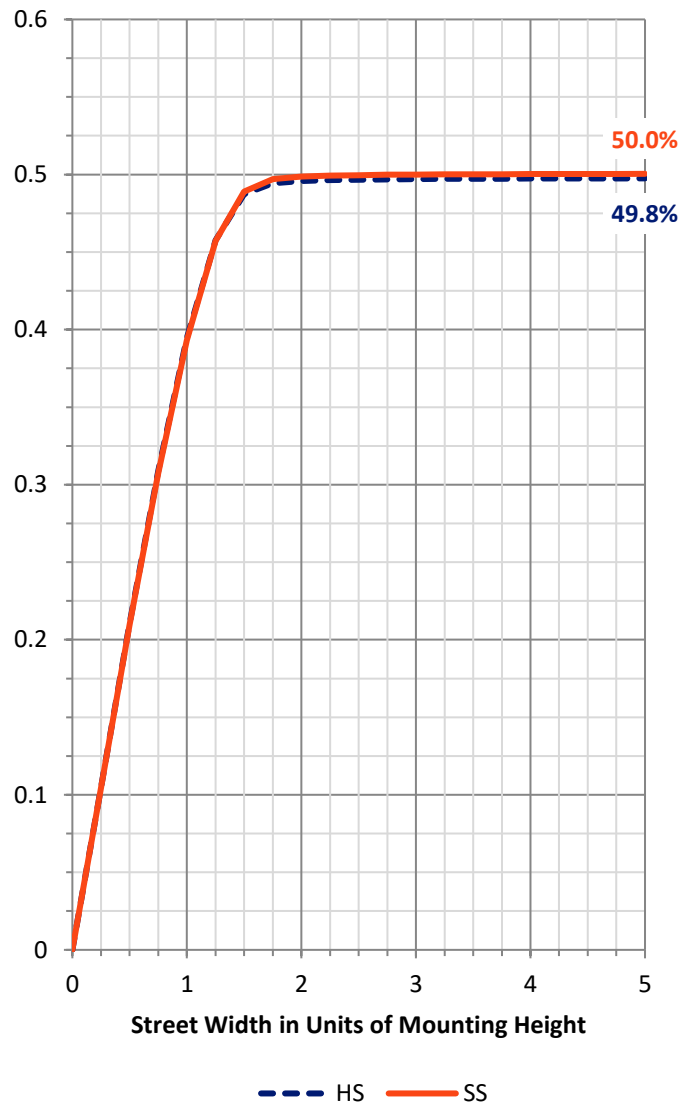
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6671.2	0.0	6671.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6671.2	0.0	6671.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13342.4	0.0	13342.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.1	1.6
10°-20°	693.4	5.2
20°-30°	1359.1	10.2
30°-40°	2443.9	18.3
40°-50°	4183.5	31.4
50°-60°	4047.9	30.3
60°-70°	346.5	2.6
70°-80°	41.1	0.3
80°-90°	12.9	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°	13342.4	100.0
0°-180°	13342.4	100.0

**Coefficient of Utilization**



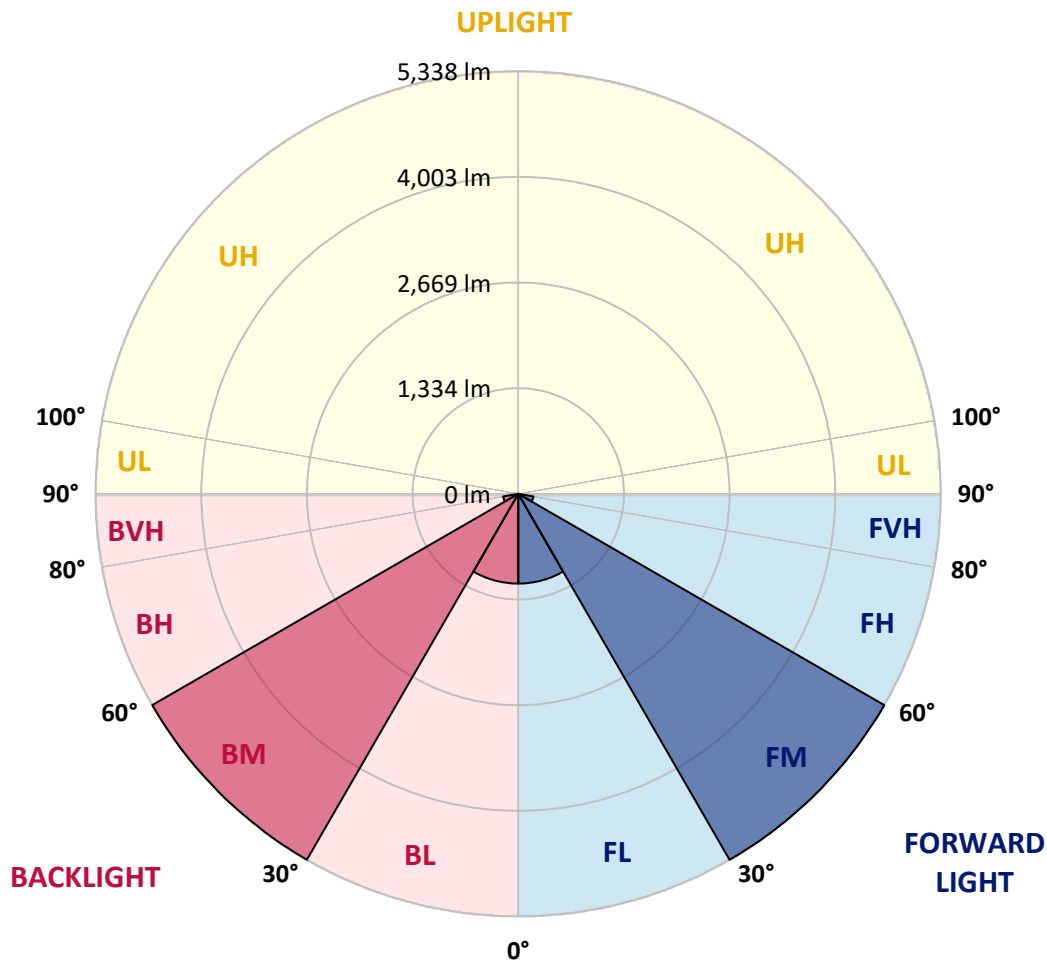
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1133.3	8.5			
FM (30°-60°)	5337.7	40.0			
FH (60°-80°)	193.8	1.5			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1133.3	8.5	B3/2500		
BM (30°-60°)	5337.7	40.0	B4/8500		
BH (60°-80°)	193.8	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°	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8	2187.8
2.5°	2198.3	2211.0	2202.6	2208.9	2208.9	2198.3	2204.7	2179.3	2196.2	2183.5	2185.7
5°	2232.1	2230.0	2230.0	2232.1	2223.7	2227.9	2219.5	2211.0	2204.7	2196.2	2221.6
7.5°	2274.4	2274.4	2259.6	2263.8	2259.6	2266.0	2249.1	2232.1	2225.8	2219.5	2215.2
10°	2314.6	2310.3	2304.0	2323.0	2308.2	2299.8	2291.3	2280.8	2257.5	2249.1	2240.6
12.5°	2373.7	2371.6	2363.2	2382.2	2373.7	2382.2	2350.5	2323.0	2318.8	2291.3	2306.1
15°	2443.5	2462.5	2447.7	2447.7	2443.5	2432.9	2420.2	2407.6	2369.5	2359.0	2361.1
17.5°	2534.4	2528.0	2530.1	2530.1	2551.3	2523.8	2498.4	2466.7	2447.7	2441.4	2420.2
20°	2621.1	2629.6	2627.5	2642.2	2654.9	2625.3	2597.8	2593.6	2540.7	2549.2	2519.6
22.5°	2773.3	2766.9	2777.5	2788.1	2779.6	2775.4	2750.0	2718.3	2671.8	2650.7	2646.5
25°	2933.9	2923.3	2904.3	2929.7	2942.3	2961.4	2912.8	2895.9	2824.0	2792.3	2794.4
27.5°	3071.3	3086.1	3107.2	3117.8	3149.5	3143.2	3109.3	3054.4	2999.4	2963.5	2940.2
30°	3259.5	3267.9	3303.8	3318.6	3373.6	3388.4	3335.5	3272.1	3174.9	3128.4	3100.9
32.5°	3432.8	3491.9	3489.8	3563.8	3652.5	3713.9	3618.7	3521.5	3424.3	3369.4	3320.7
35°	3713.9	3703.3	3764.7	3842.9	3986.6	4056.3	3952.8	3840.7	3692.7	3603.9	3565.9
37.5°	3976.0	3980.2	4062.6	4187.3	4352.3	4460.1	4369.2	4185.2	4033.1	3918.9	3866.1
40°	4356.5	4365.0	4449.5	4591.1	4777.1	4893.4	4787.6	4601.7	4398.8	4310.0	4310.0
42.5°	4802.4	4838.4	4893.4	5016.0	5182.9	5311.9	5216.8	5070.9	4865.9	4751.7	4768.6
45°	5261.1	5278.1	5314.0	5495.8	5574.0	5637.4	5548.7	5481.0	5343.6	5204.1	5180.8
47.5°	5690.3	5696.6	5802.3	5859.3	5920.6	5867.8	5924.9	5836.1	5681.8	5546.6	5519.1
50°	5880.5	5869.9	6020.0	6193.4	6239.8	6146.9	6098.2	6039.1	5804.4	5641.7	5569.8
52.5°	5326.7	5388.0	5667.0	6149.0	6512.5	6590.7	6307.5	6034.8	5597.3	5280.2	5231.6
54°	4692.5	4749.6	4980.1	5694.5	6451.2	6715.5	6258.9	5679.7	5062.5	4686.2	4637.6
55°	4064.8	4001.4	4419.9	5149.1	6163.8	6605.6	6066.5	5221.0	4515.0	4170.4	4102.8
57.5°	2200.4	2211.0	2564.0	3253.1	4331.2	5064.6	4472.7	3532.1	2667.6	2280.8	2246.9
60°	697.5	714.4	868.8	1314.7	2069.4	2471.0	2118.0	1418.3	980.8	786.3	754.6
62.5°	217.7	226.1	247.3	367.8	566.5	809.5	634.1	380.5	283.2	260.0	264.2
65°	133.1	133.1	135.3	143.7	169.1	196.5	190.2	167.0	160.6	156.4	154.3
67.5°	86.6	84.5	88.8	95.1	99.3	101.4	107.8	114.1	112.0	107.8	107.8
70°	52.8	50.7	54.9	63.4	65.5	69.7	76.1	84.5	82.4	78.2	80.3
72.5°	29.6	29.6	31.7	38.0	44.4	48.6	54.9	61.3	63.4	61.3	61.3
75°	10.6	12.7	16.9	23.2	27.5	33.8	40.2	46.5	52.8	48.6	46.5
77.5°	4.2	4.2	8.5	14.8	21.1	27.5	38.0	44.4	48.6	44.4	40.2
80°	2.1	2.1	6.3	12.7	19.0	25.4	31.7	38.0	40.2	35.9	31.7
82.5°	2.1	2.1	6.3	12.7	19.0	23.2	33.8	38.0	42.3	38.0	31.7
85°	0.0	2.1	6.3	12.7	16.9	19.0	19.0	12.7	10.6	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)