

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: P650883

Luminaire Tested: **GALN-SA5C-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650883  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17770.3 lumens  
Efficiency: N/A  
Efficacy: 66.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

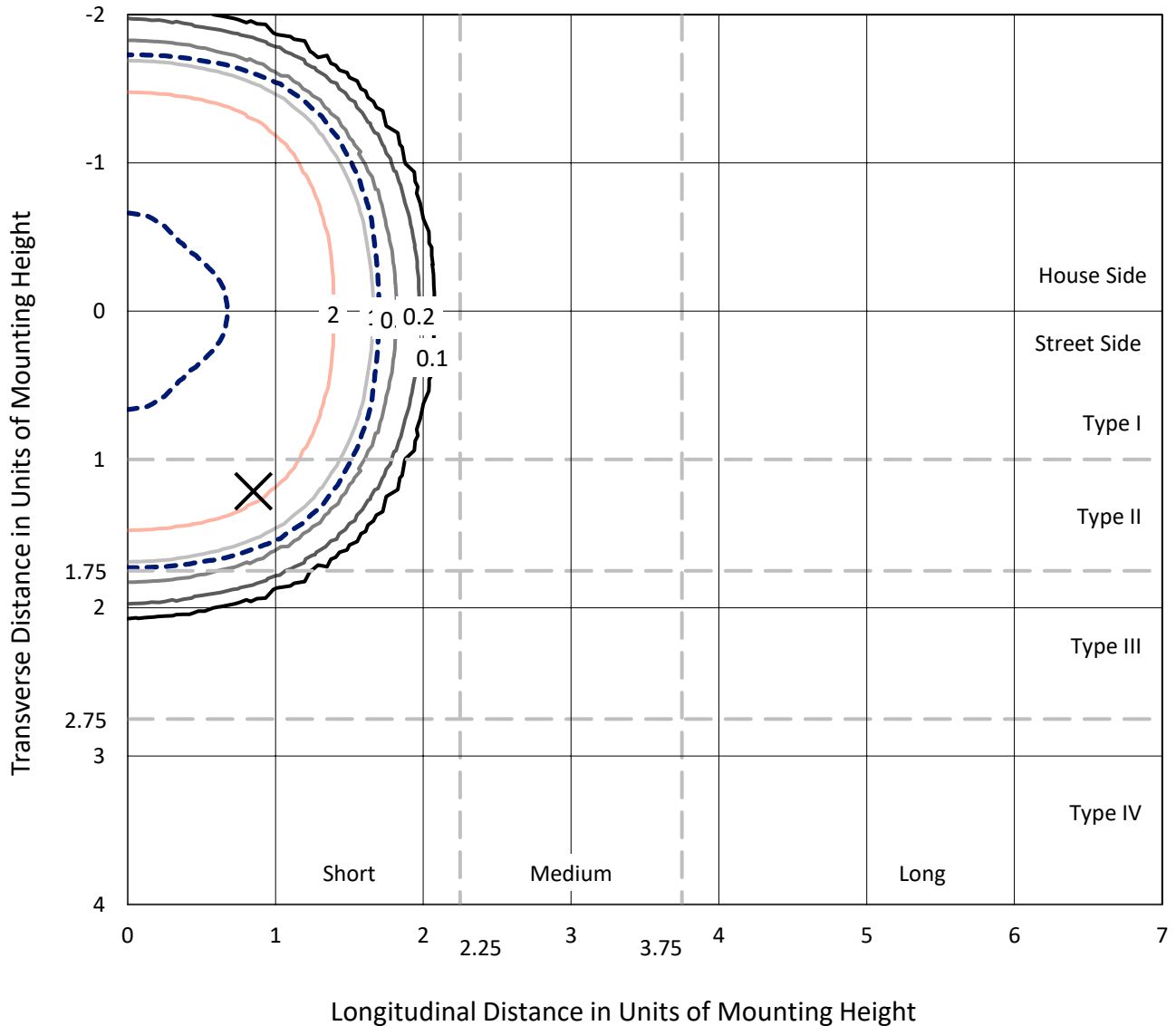
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

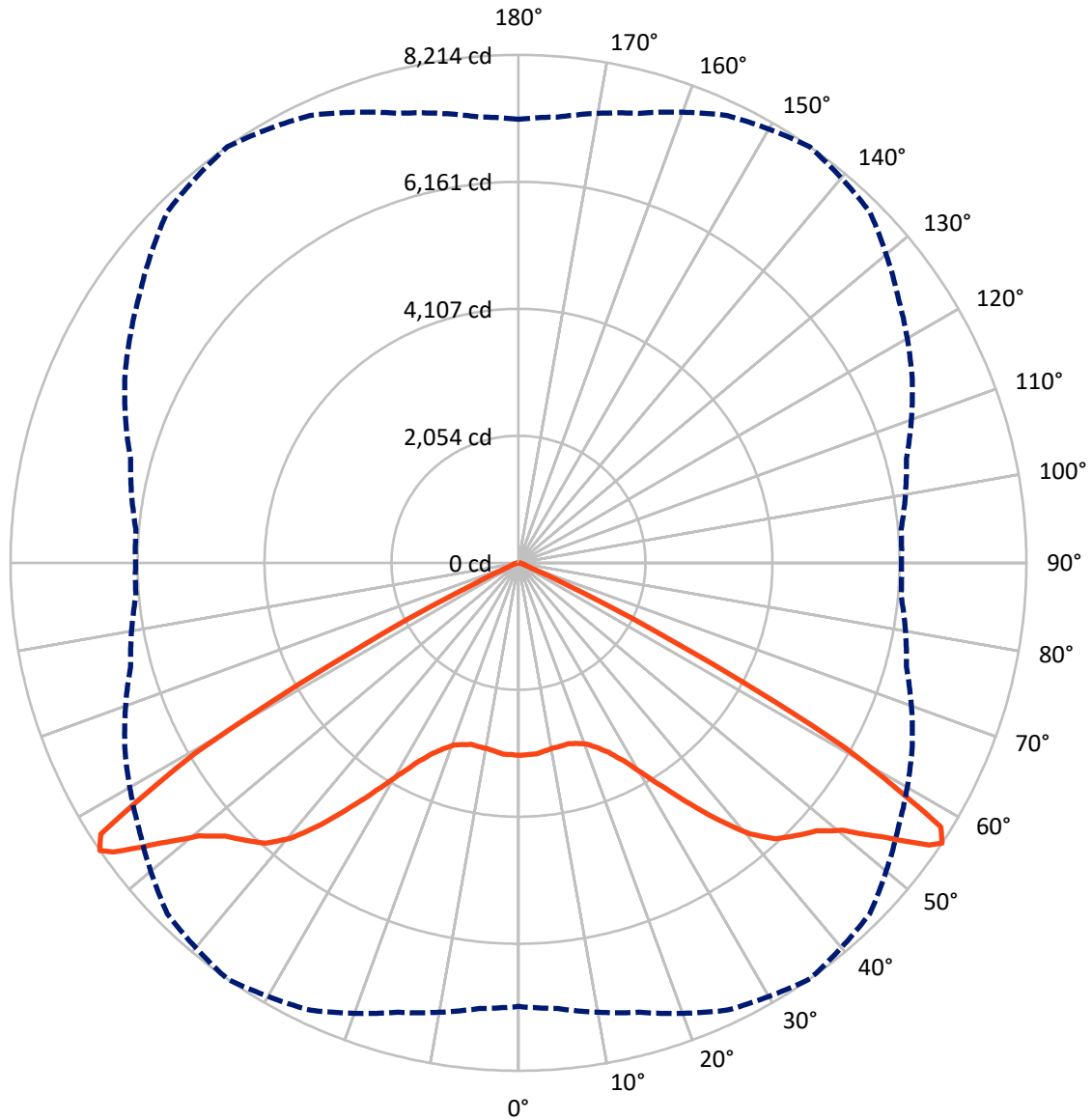
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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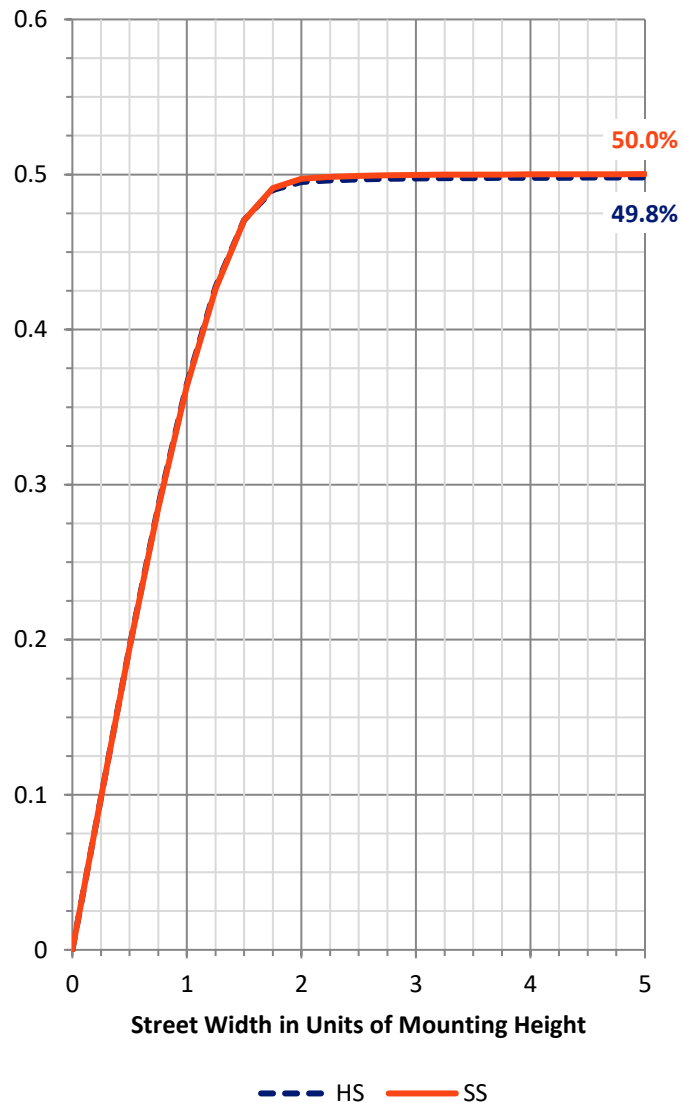
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8885.2	0.0	8885.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8885.2	0.0	8885.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17770.3	0.0	17770.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.6	1.6
10°-20°	854.4	4.8
20°-30°	1547.2	8.7
30°-40°	2869.0	16.1
40°-50°	4709.2	26.5
50°-60°	6066.9	34.1
60°-70°	1337.1	7.5
70°-80°	77.6	0.4
80°-90°	16.3	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°	17770.3	100.0
0°-180°	17770.3	100.0

**Coefficient of Utilization**



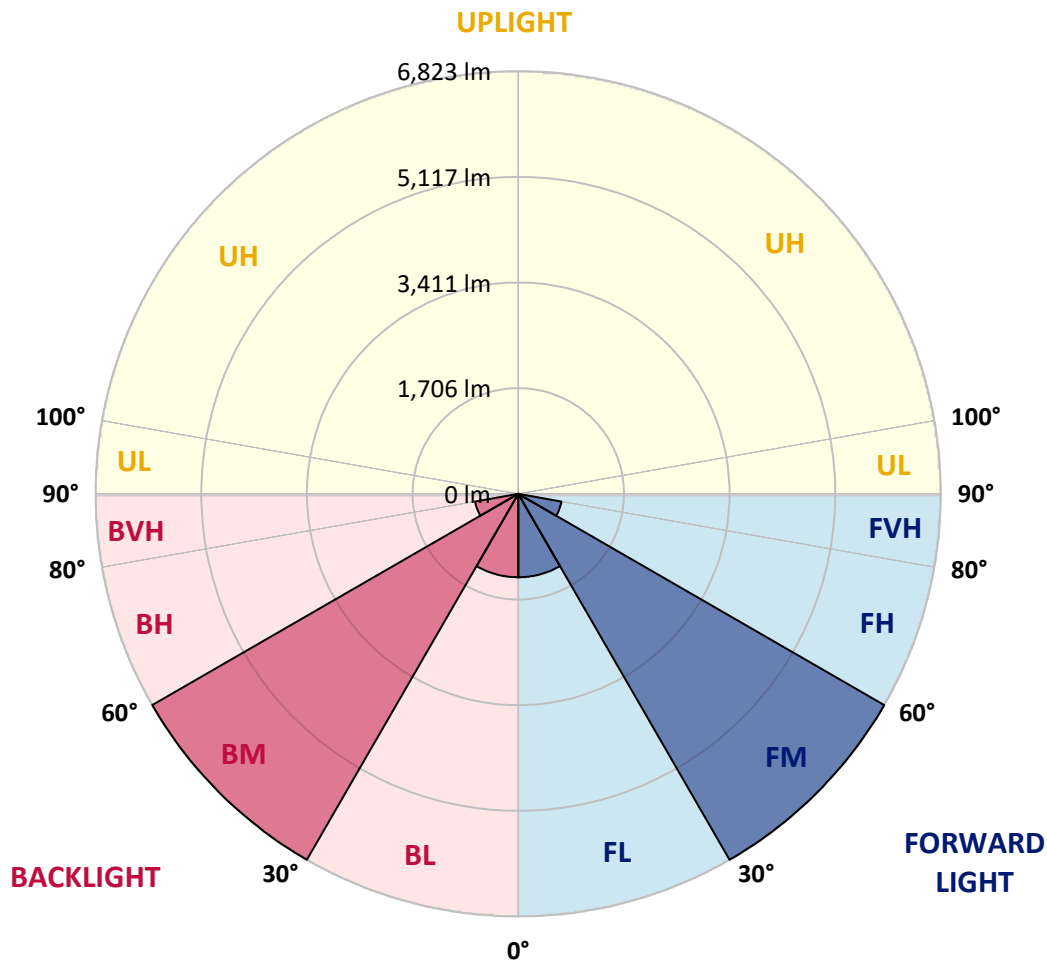
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1347.1	7.6			
FM (30°-60°)	6822.6	38.4			
FH (60°-80°)	707.3	4.0			G1/1800
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	1347.1	7.6	B3/2500		
BM (30°-60°)	6822.6	38.4	B4/8500		
BH (60°-80°)	707.3	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.2	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3113.7	3113.7	3113.7	3113.7	3113.7	3113.7	3113.7	3113.7	3113.7	3113.7	3113.7
2.5°	3120.2	3120.2	3123.4	3126.6	3104.0	3094.5	3097.7	3091.2	3088.0	3097.7	3097.7
5°	3110.5	3110.5	3100.9	3104.0	3104.0	3075.1	3075.1	3081.5	3081.5	3062.2	3055.8
7.5°	3084.8	3078.3	3065.4	3081.5	3071.9	3071.9	3049.4	3033.2	3026.8	3039.7	3026.8
10°	3030.0	3033.2	3046.1	3052.6	3046.1	3065.4	3026.8	3004.3	2981.8	2972.1	2972.1
12.5°	3004.3	3023.6	3004.3	3020.4	3042.9	3026.8	3004.3	2988.2	2955.9	2943.1	2943.1
15°	3001.0	3013.9	3020.4	3042.9	3033.2	3039.7	2994.6	2975.3	2927.0	2904.5	2894.8
17.5°	2997.8	3013.9	3023.6	3065.4	3071.9	3075.1	3039.7	2981.8	2939.9	2917.3	2894.8
20°	3033.2	3039.7	3059.0	3100.9	3126.6	3171.7	3107.3	3046.1	2955.9	2930.2	2920.5
22.5°	3078.3	3110.5	3129.9	3174.9	3242.6	3281.2	3197.5	3120.2	3026.8	2994.6	2955.9
25°	3223.2	3216.8	3249.0	3342.4	3397.1	3426.1	3358.4	3245.8	3123.4	3084.8	3091.2
27.5°	3403.5	3410.0	3438.9	3542.0	3622.5	3667.6	3587.1	3438.9	3319.8	3255.4	3249.0
30°	3638.6	3632.2	3664.4	3802.8	3947.7	4015.4	3873.6	3699.8	3583.8	3500.2	3519.5
32.5°	3886.5	3889.8	3979.9	4105.5	4340.6	4472.6	4243.9	4031.4	3857.6	3799.6	3770.6
35°	4253.6	4269.8	4340.6	4533.7	4794.6	4965.3	4714.1	4459.7	4260.1	4153.8	4166.7
37.5°	4707.7	4691.5	4810.7	5020.0	5293.7	5419.2	5206.7	4916.9	4714.1	4643.2	4688.3
40°	5190.7	5206.7	5267.9	5457.9	5763.8	5847.6	5531.9	5374.2	5197.1	5161.6	5216.4
42.5°	5673.6	5664.0	5709.0	5879.8	6101.9	6043.9	5857.2	5763.8	5638.2	5567.4	5641.4
45°	6027.9	6011.7	6095.5	6211.4	6291.9	6182.4	6098.7	6066.5	6002.0	5924.8	5992.5
47.5°	6372.4	6359.5	6440.0	6472.2	6478.6	6333.7	6349.9	6407.8	6246.8	6085.8	6163.1
50°	6665.4	6642.9	6742.7	6813.5	6797.5	6565.6	6623.5	6565.6	6314.4	6124.4	6095.5
52.5°	7154.8	7164.5	7270.8	7399.5	7360.9	7167.8	7084.0	6820.0	6498.0	6327.3	6227.5
55°	7464.0	7415.7	7599.2	8008.2	8053.2	7853.6	7483.3	7093.7	6610.7	6401.4	6375.6
56°	7174.2	7235.4	7525.2	7982.4	8214.2	8030.7	7493.0	7026.1	6494.7	6211.4	6192.0
57.5°	6436.8	6404.6	6797.5	7422.1	8053.2	7976.0	7228.9	6543.1	5924.8	5606.0	5567.4
60°	4005.7	4099.0	4443.6	5216.4	6060.1	6098.7	5358.1	4768.8	4047.6	3764.1	3831.8
62.5°	1568.1	1487.6	1703.4	2279.8	2859.4	2988.2	2708.0	2250.8	1848.3	1568.1	1548.8
65°	363.9	354.2	399.3	550.6	769.6	892.0	846.9	608.5	447.6	425.0	392.8
67.5°	206.0	206.0	196.5	196.5	215.7	228.6	219.0	215.7	225.4	235.1	231.9
70°	144.9	141.7	135.2	138.4	132.0	132.0	141.7	157.8	170.6	170.6	173.9
72.5°	87.0	87.0	87.0	96.6	96.6	96.6	106.2	119.2	122.4	119.2	115.9
75°	38.6	38.6	45.1	54.7	61.1	64.4	74.1	80.5	87.0	80.5	74.1
77.5°	9.7	9.7	16.1	22.5	29.0	35.4	48.3	57.9	61.1	57.9	48.3
80°	3.2	3.2	6.5	16.1	29.0	35.4	48.3	51.6	54.7	48.3	38.6
82.5°	3.2	3.2	6.5	16.1	22.5	29.0	38.6	45.1	48.3	41.9	38.6
85°	0.0	3.2	6.5	12.9	19.3	25.7	25.7	19.3	16.1	9.7	12.9
87.5°	0.0	0.0	3.2	3.2	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)