

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: P652373

Luminaire Tested: **GALN-SA5B-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652373  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25010.5 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

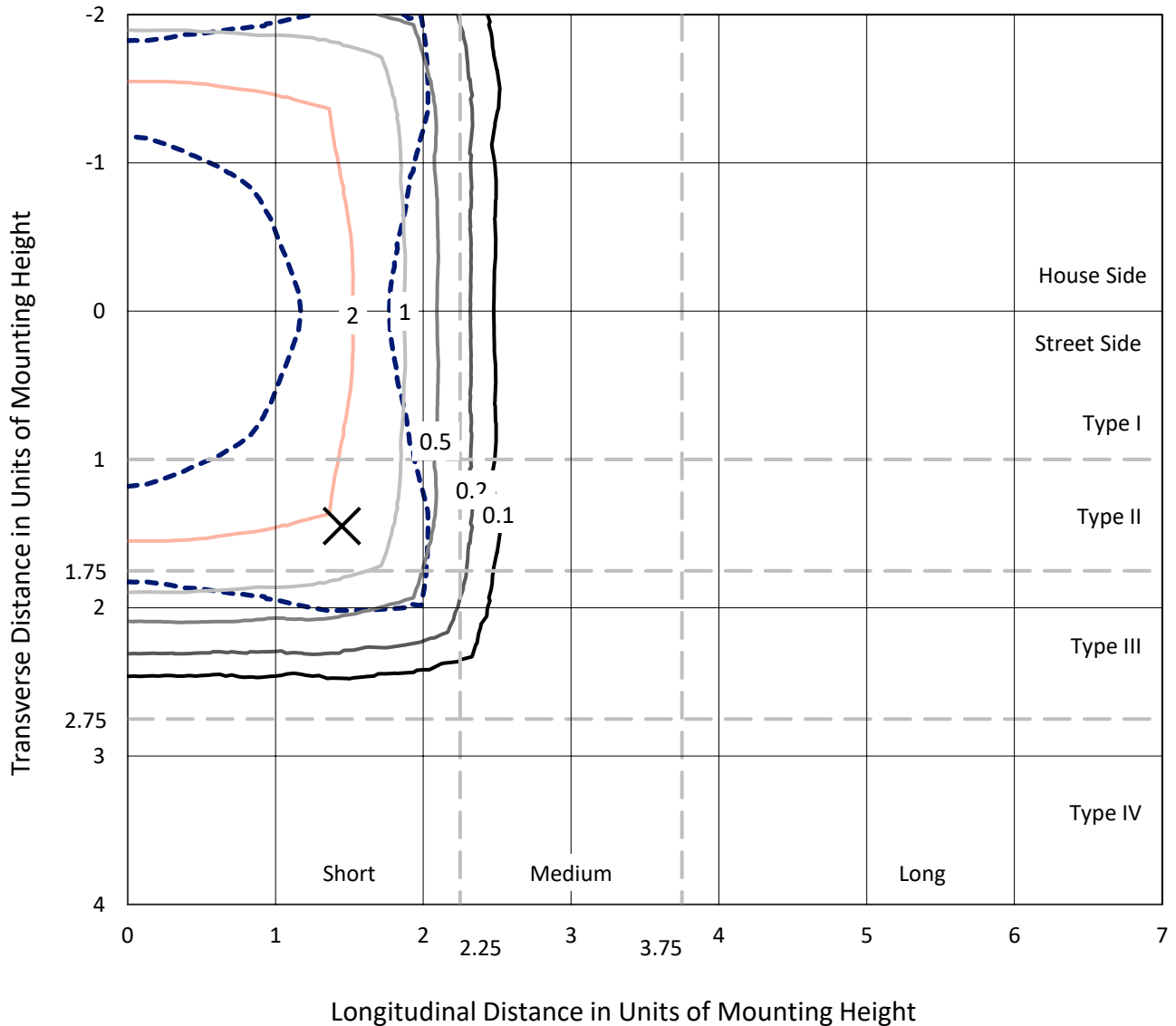
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

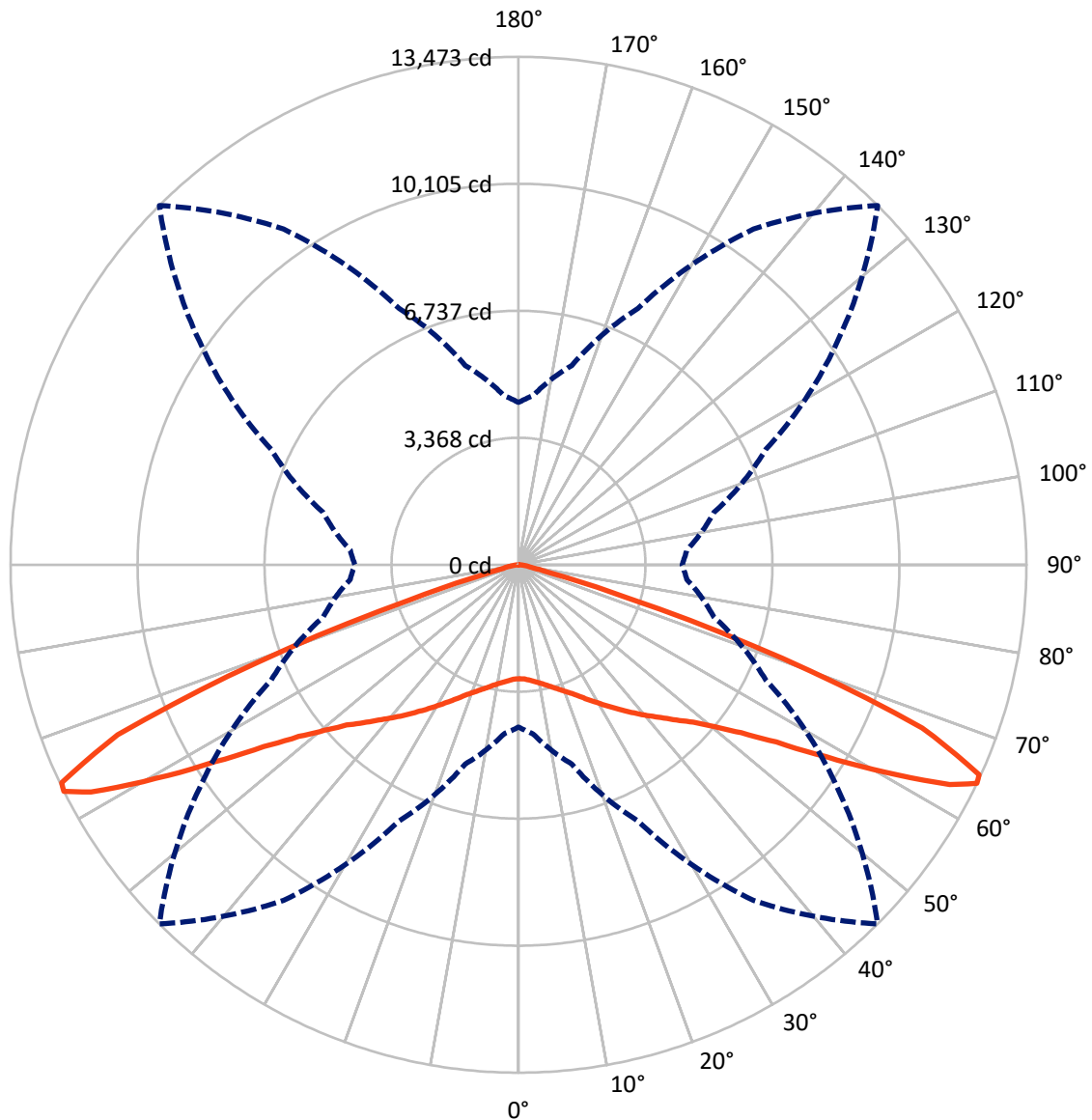
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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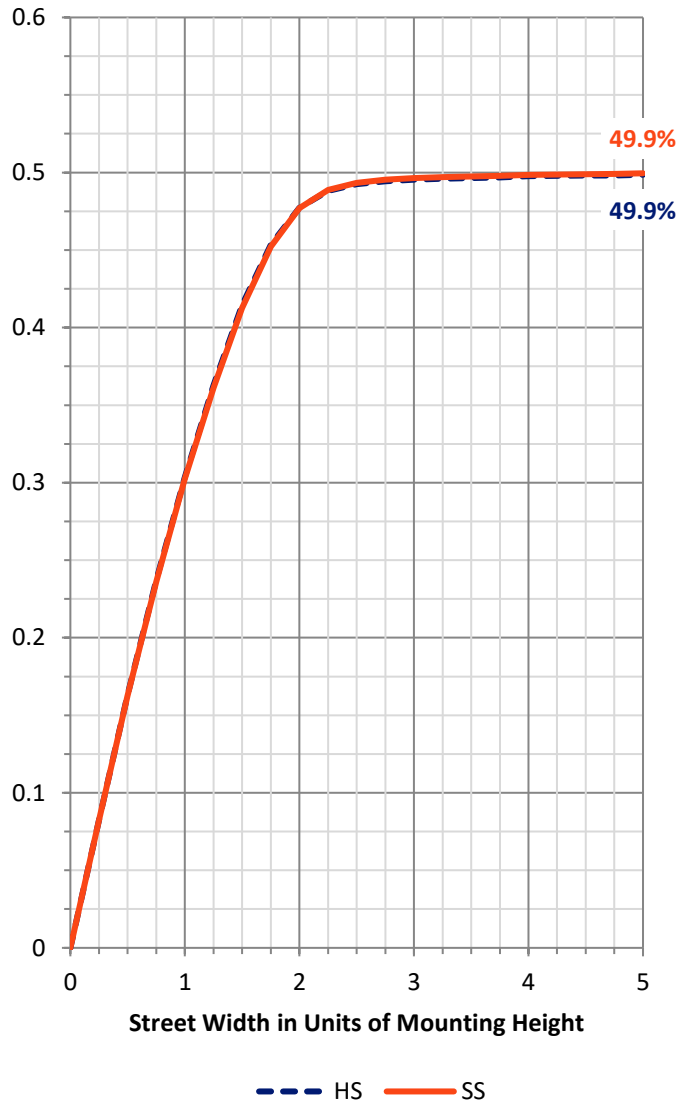
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12505.2	0.0	12505.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12505.2	0.0	12505.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25010.5	0.0	25010.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.0	1.2
10°-20°	958.0	3.8
20°-30°	1810.3	7.2
30°-40°	2998.0	12.0
40°-50°	4680.4	18.7
50°-60°	7235.8	28.9
60°-70°	6239.3	24.9
70°-80°	707.1	2.8
80°-90°	84.7	0.3
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°	25010.5	100.0
0°-180°	25010.5	100.0

**Coefficient of Utilization**



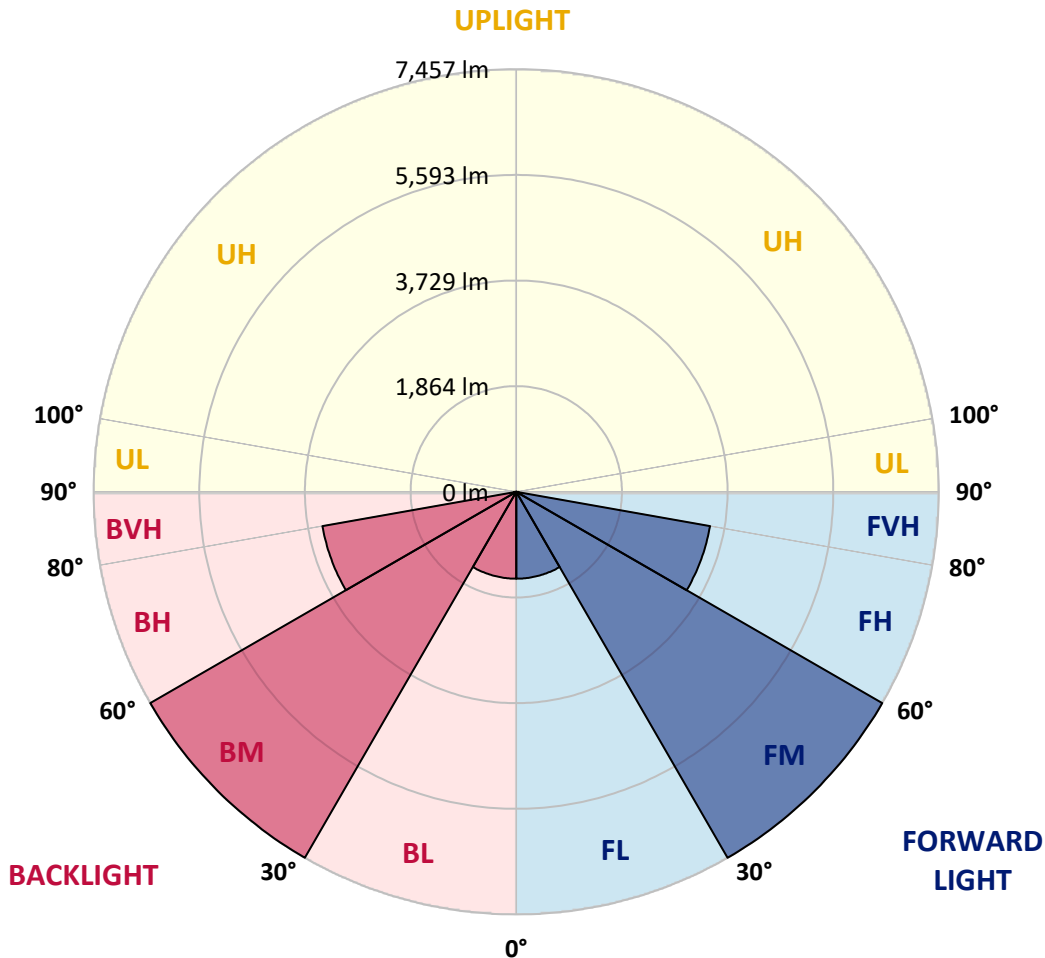
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.6	6.1			
FM (30°-60°)	7457.1	29.8			
FH (60°-80°)	3473.2	13.9			G2/5000
FVH (80°-90°)	42.4	0.2			G1/100
BL (0°-30°)	1532.6	6.1	B3/2500		
BM (30°-60°)	7457.1	29.8	B4/8500		
BH (60°-80°)	3473.2	13.9	B4/5000		G2/5000
BVH (80°-90°)	42.4	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3023.0	3023.0	3023.0	3023.0	3023.0	3023.0	3023.0	3023.0	3023.0	3023.0	3023.0
2.5°	3034.8	3041.5	3036.2	3034.8	3033.6	3033.6	3033.6	3034.8	3040.1	3044.2	3041.5
5°	3073.3	3078.6	3076.0	3074.6	3073.3	3074.6	3071.9	3070.7	3074.6	3074.6	3073.3
7.5°	3121.0	3127.6	3124.9	3127.6	3128.9	3130.2	3123.6	3118.3	3117.0	3121.0	3118.3
10°	3185.9	3191.2	3192.5	3193.9	3196.5	3195.1	3187.2	3177.9	3176.6	3175.3	3173.9
12.5°	3258.7	3262.7	3264.0	3269.3	3273.3	3274.6	3265.4	3257.4	3244.2	3246.8	3241.6
15°	3340.9	3348.8	3347.5	3355.4	3366.0	3368.7	3359.4	3346.2	3334.2	3327.6	3323.6
17.5°	3441.5	3446.8	3444.2	3452.1	3465.4	3472.0	3464.1	3446.8	3434.9	3420.3	3412.4
20°	3560.8	3570.0	3572.7	3572.7	3584.6	3591.2	3579.3	3574.0	3555.5	3544.9	3538.3
22.5°	3695.9	3699.9	3707.8	3715.8	3727.6	3725.0	3721.1	3713.1	3695.9	3686.6	3676.0
25°	3848.2	3852.2	3872.0	3889.3	3893.2	3890.6	3885.3	3881.3	3865.4	3844.2	3836.3
27.5°	4025.7	4033.7	4060.2	4076.1	4076.1	4077.4	4066.8	4080.0	4045.6	4020.4	4017.8
30°	4248.3	4253.6	4276.1	4292.0	4284.1	4277.4	4274.8	4288.0	4250.9	4205.9	4195.3
32.5°	4468.1	4486.7	4506.6	4541.1	4513.2	4501.3	4498.7	4507.9	4465.5	4415.2	4400.6
35°	4704.0	4717.3	4754.3	4783.4	4758.3	4730.5	4742.4	4771.5	4721.2	4653.6	4651.0
37.5°	4964.9	4976.9	5024.6	5055.0	5036.5	4988.8	5008.7	5043.1	4992.8	4909.3	4892.1
40°	5236.5	5261.6	5321.3	5353.0	5322.6	5259.0	5296.1	5333.2	5288.1	5191.5	5153.1
42.5°	5541.2	5580.9	5667.0	5682.9	5624.6	5538.5	5603.4	5663.0	5631.3	5520.0	5505.4
45°	5897.5	5921.4	6027.4	6061.8	5980.9	5873.6	5954.4	6063.1	6039.2	5910.8	5883.0
47.5°	6296.2	6318.8	6428.7	6480.4	6378.4	6234.0	6379.7	6521.5	6506.9	6369.1	6355.9
50°	6767.9	6773.2	6925.5	6983.7	6881.7	6757.3	6887.0	7063.2	7004.9	6828.8	6826.1
52.5°	7284.5	7291.0	7483.1	7595.7	7538.8	7398.4	7552.0	7659.3	7511.0	7280.5	7263.3
55°	7732.2	7765.3	8027.6	8327.0	8405.1	8303.1	8349.5	8299.2	7933.6	7610.4	7560.0
57.5°	7915.0	7979.9	8378.6	8937.6	9446.4	9597.4	9239.7	8760.2	8101.8	7644.8	7595.7
60°	7468.6	7538.8	8157.4	9218.5	10516.7	11172.4	10167.0	8838.3	7719.0	7076.5	6999.6
62.5°	5980.9	6000.9	6910.9	8557.5	11140.6	12838.9	10557.7	8172.0	6604.9	5731.9	5701.5
64°	4303.9	4507.9	5472.3	7503.1	10867.7	13473.4	10332.6	7238.1	5365.0	4481.4	4338.4
65°	3219.0	3274.6	4411.2	6407.5	10386.9	13425.7	9895.5	6345.3	4443.0	3429.6	3270.6
67.5°	1216.1	1222.6	1628.0	3193.9	7394.4	11551.3	7552.0	3452.1	1871.8	1353.8	1304.8
70°	504.7	514.0	597.4	1074.3	3177.9	7416.9	3641.5	1245.2	684.8	555.1	547.1
72.5°	369.6	374.9	400.1	476.8	977.6	3045.4	1197.5	528.6	401.4	359.0	355.0
75°	290.1	292.8	311.3	351.0	455.7	843.9	498.1	363.0	306.0	275.5	272.9
77.5°	221.2	227.8	241.1	267.6	306.0	400.1	329.8	271.6	235.8	210.6	206.6
80°	152.3	160.3	185.4	196.0	205.3	259.6	225.2	205.3	184.1	153.7	144.4
82.5°	94.0	99.3	124.6	133.8	129.9	145.7	144.4	147.0	131.1	95.4	88.7
85°	49.0	51.6	67.5	70.2	64.9	59.6	74.2	86.1	80.8	54.3	53.0
87.5°	10.6	11.9	14.5	13.3	14.5	14.5	18.6	27.8	29.2	18.6	17.2
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)