

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: P652038

Luminaire Tested: **GALN-SA8A-840-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652038  
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-SA8A-840-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA 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: 18638.2 lumens  
Efficiency: N/A  
Efficacy: 76.4 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

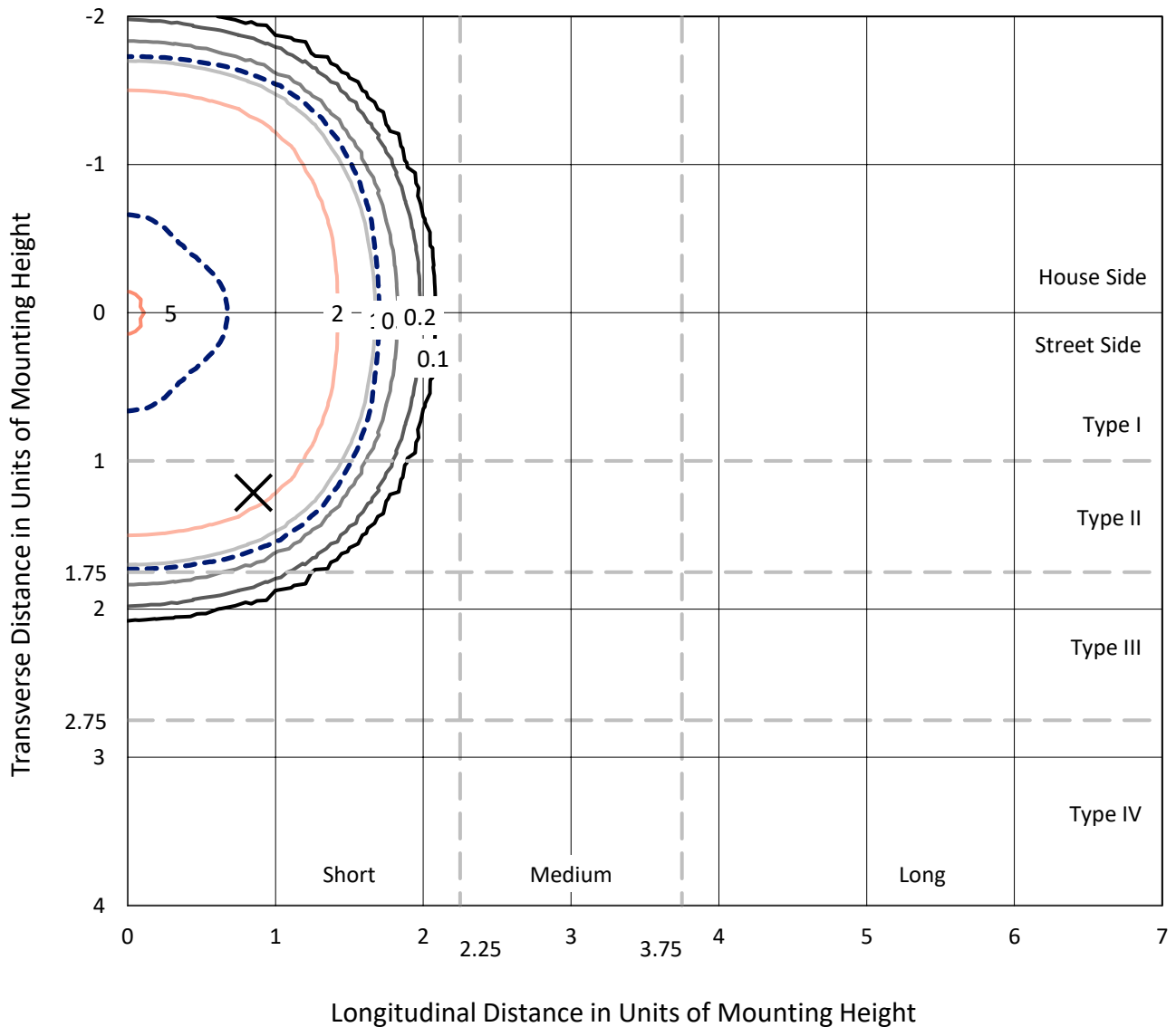
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

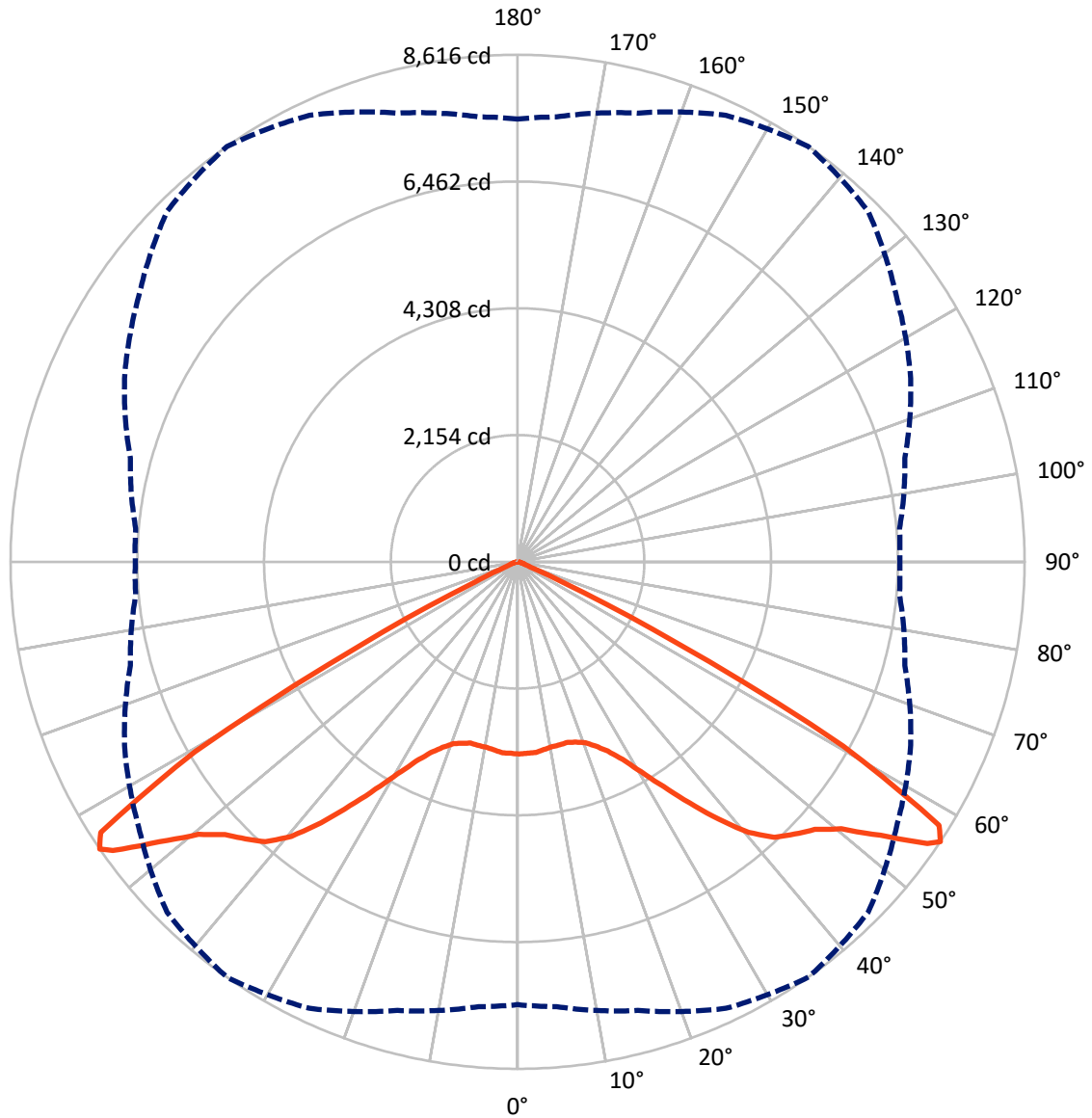
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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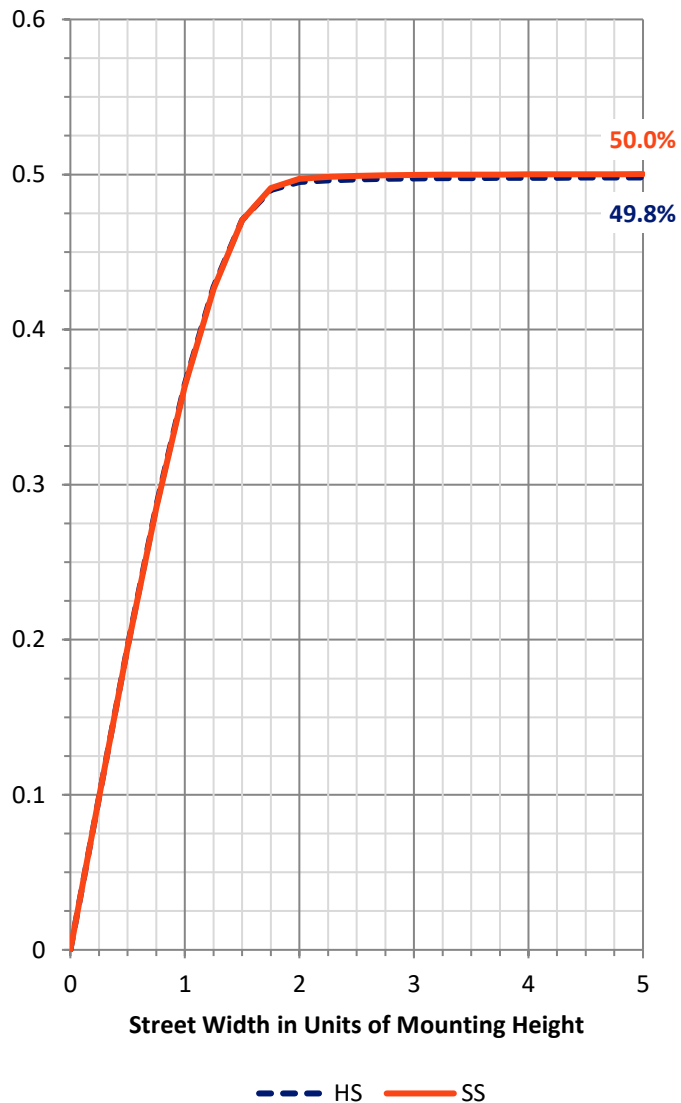
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9319.1	0.0	9319.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9319.1	0.0	9319.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18638.2	0.0	18638.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.9	1.6
10°-20°	896.1	4.8
20°-30°	1622.7	8.7
30°-40°	3009.1	16.1
40°-50°	4939.3	26.5
50°-60°	6363.2	34.1
60°-70°	1402.4	7.5
70°-80°	81.4	0.4
80°-90°	17.1	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°	18638.2	100.0
0°-180°	18638.2	100.0

**Coefficient of Utilization**

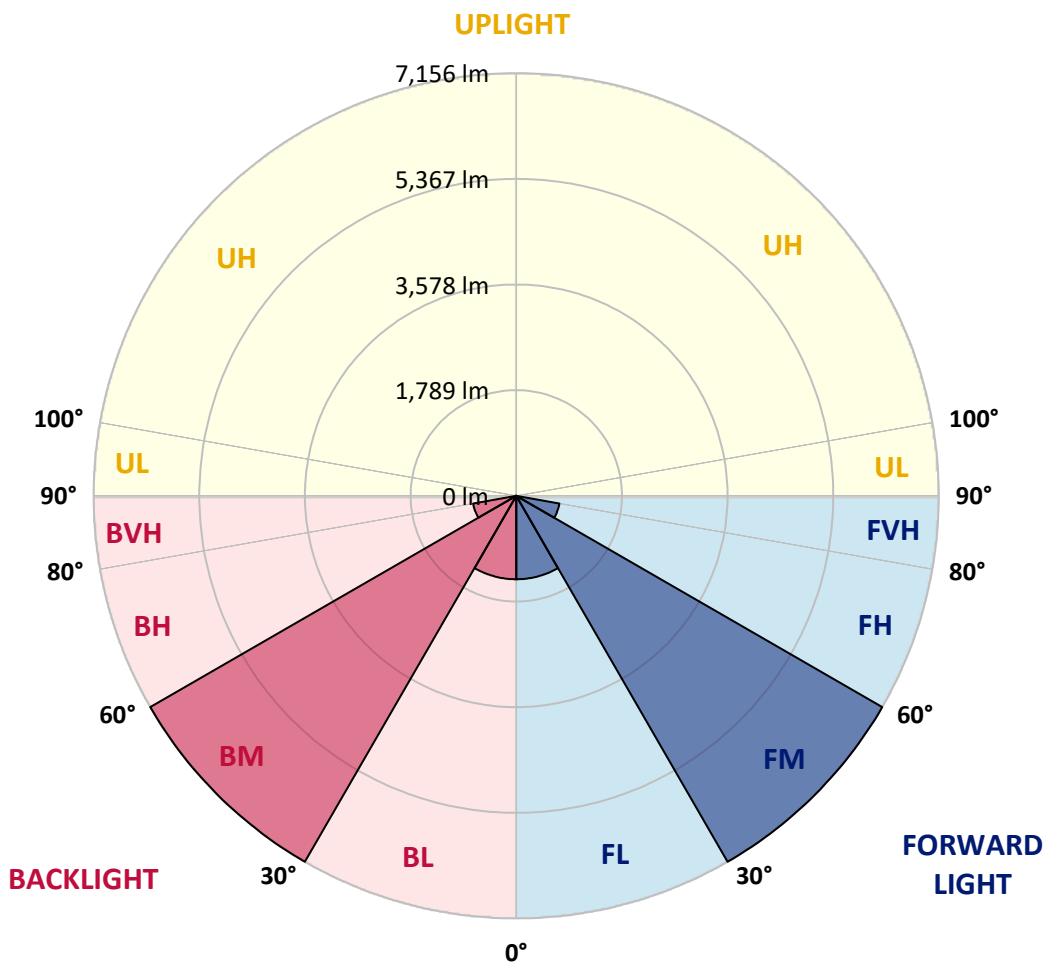


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1412.9	7.6			
FM (30°-60°)	7155.8	38.4			
FH (60°-80°)	741.9	4.0			G1/1800
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1412.9	7.6	B3/2500		
BM (30°-60°)	7155.8	38.4	B4/8500		
BH (60°-80°)	741.9	4.0	B2/1000		G1/1800
BVH (80°-90°)	8.6	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°	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9	3265.9
2.5°	3272.6	3272.6	3275.9	3279.3	3255.7	3245.6	3249.0	3242.1	3238.8	3249.0	3249.0
5°	3262.4	3262.4	3252.3	3255.7	3255.7	3225.3	3225.3	3232.0	3232.0	3211.8	3205.1
7.5°	3235.4	3228.7	3215.1	3232.0	3222.0	3222.0	3198.2	3181.4	3174.6	3188.1	3174.6
10°	3178.0	3181.4	3194.9	3201.7	3194.9	3215.1	3174.6	3151.0	3127.3	3117.3	3117.3
12.5°	3151.0	3171.2	3151.0	3167.9	3191.5	3174.6	3151.0	3134.1	3100.3	3086.8	3086.8
15°	3147.6	3161.2	3167.9	3191.5	3181.4	3188.1	3140.9	3120.6	3069.9	3046.3	3036.2
17.5°	3144.2	3161.2	3171.2	3215.1	3222.0	3225.3	3188.1	3127.3	3083.4	3059.8	3036.2
20°	3181.4	3188.1	3208.4	3252.3	3279.3	3326.6	3259.0	3194.9	3100.3	3073.4	3063.2
22.5°	3228.7	3262.4	3282.7	3330.0	3400.9	3441.5	3353.7	3272.6	3174.6	3140.9	3100.3
25°	3380.7	3373.9	3407.6	3505.6	3563.0	3593.4	3522.5	3404.3	3275.9	3235.4	3242.1
27.5°	3569.8	3576.5	3607.0	3715.0	3799.5	3846.7	3762.3	3607.0	3482.0	3414.5	3407.6
30°	3816.3	3809.6	3843.4	3988.5	4140.5	4211.5	4062.9	3880.5	3758.9	3671.1	3691.3
32.5°	4076.3	4079.8	4174.3	4306.0	4552.6	4691.0	4451.2	4228.4	4046.0	3985.2	3954.8
35°	4461.3	4478.2	4552.6	4755.2	5028.8	5207.7	4944.3	4677.6	4468.1	4356.7	4370.2
37.5°	4937.6	4920.7	5045.7	5265.2	5552.2	5684.0	5461.0	5157.1	4944.3	4870.1	4917.3
40°	5444.1	5461.0	5525.2	5724.4	6045.3	6133.2	5802.1	5636.6	5450.9	5413.8	5471.2
42.5°	5950.7	5940.7	5987.9	6166.9	6399.9	6339.1	6143.3	6045.3	5913.6	5839.3	5916.9
45°	6322.2	6305.4	6393.2	6514.7	6599.2	6484.4	6396.6	6362.8	6295.2	6214.1	6285.1
47.5°	6683.6	6670.1	6754.6	6788.3	6795.0	6643.1	6660.0	6720.8	6551.9	6383.0	6464.1
50°	6991.0	6967.3	7072.0	7146.3	7129.4	6886.3	6947.1	6886.3	6622.8	6423.6	6393.2
52.5°	7504.3	7514.4	7625.9	7761.0	7720.5	7517.8	7430.0	7153.0	6815.3	6636.3	6531.6
55°	7828.5	7777.8	7970.3	8399.2	8446.6	8237.2	7848.8	7440.2	6933.5	6714.0	6687.0
56°	7524.6	7588.8	7892.7	8372.2	8615.5	8423.0	7858.9	7369.2	6811.9	6514.7	6494.5
57.5°	6751.1	6717.4	7129.4	7784.6	8446.6	8365.5	7582.0	6862.6	6214.1	5879.9	5839.3
60°	4201.3	4299.3	4660.7	5471.2	6356.0	6396.6	5619.8	5001.8	4245.2	3948.0	4019.0
62.5°	1644.7	1560.3	1786.5	2391.1	2999.0	3134.1	2840.3	2360.7	1938.6	1644.7	1624.5
65°	381.6	371.5	418.8	577.5	807.2	935.5	888.3	638.3	469.4	445.8	412.0
67.5°	216.1	216.1	206.0	206.0	226.3	239.8	229.7	226.3	236.4	246.6	243.1
70°	152.0	148.6	141.9	145.2	138.4	138.4	148.6	165.5	179.0	179.0	182.4
72.5°	91.2	91.2	91.2	101.3	101.3	101.3	111.4	125.0	128.3	125.0	121.6
75°	40.5	40.5	47.3	57.4	64.2	67.5	77.7	84.4	91.2	84.4	77.7
77.5°	10.1	10.1	16.9	23.6	30.4	37.2	50.6	60.8	64.2	60.8	50.6
80°	3.4	3.4	6.7	16.9	30.4	37.2	50.6	54.1	57.4	50.6	40.5
82.5°	3.4	3.4	6.7	16.9	23.6	30.4	40.5	47.3	50.6	43.9	40.5
85°	0.0	3.4	6.7	13.5	20.3	27.0	27.0	20.3	16.9	10.1	13.5
87.5°	0.0	0.0	3.4	3.4	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)