

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: P651880

Luminaire Tested: **GALN-SA5A-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651880  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-840-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16339.8 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

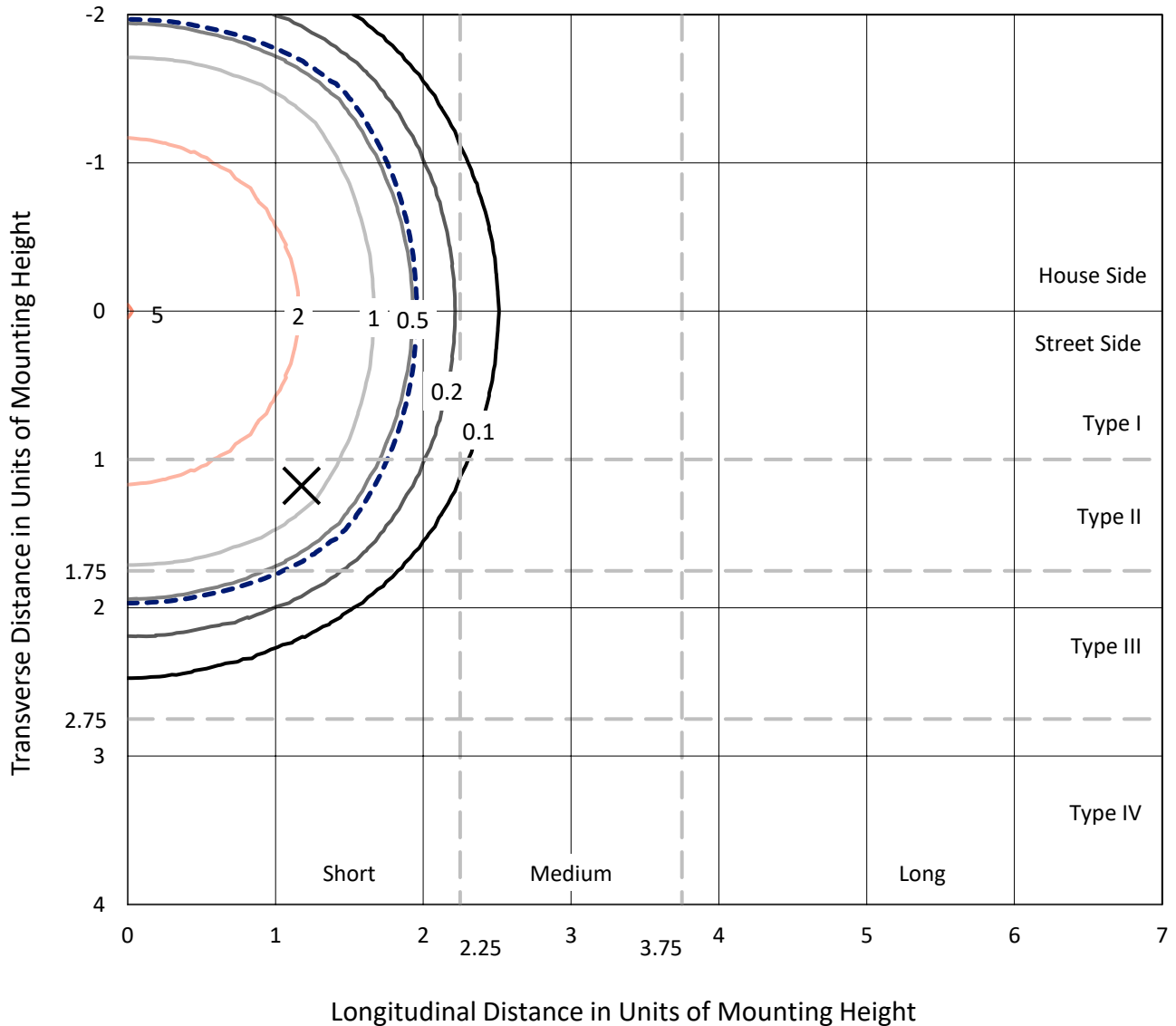
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

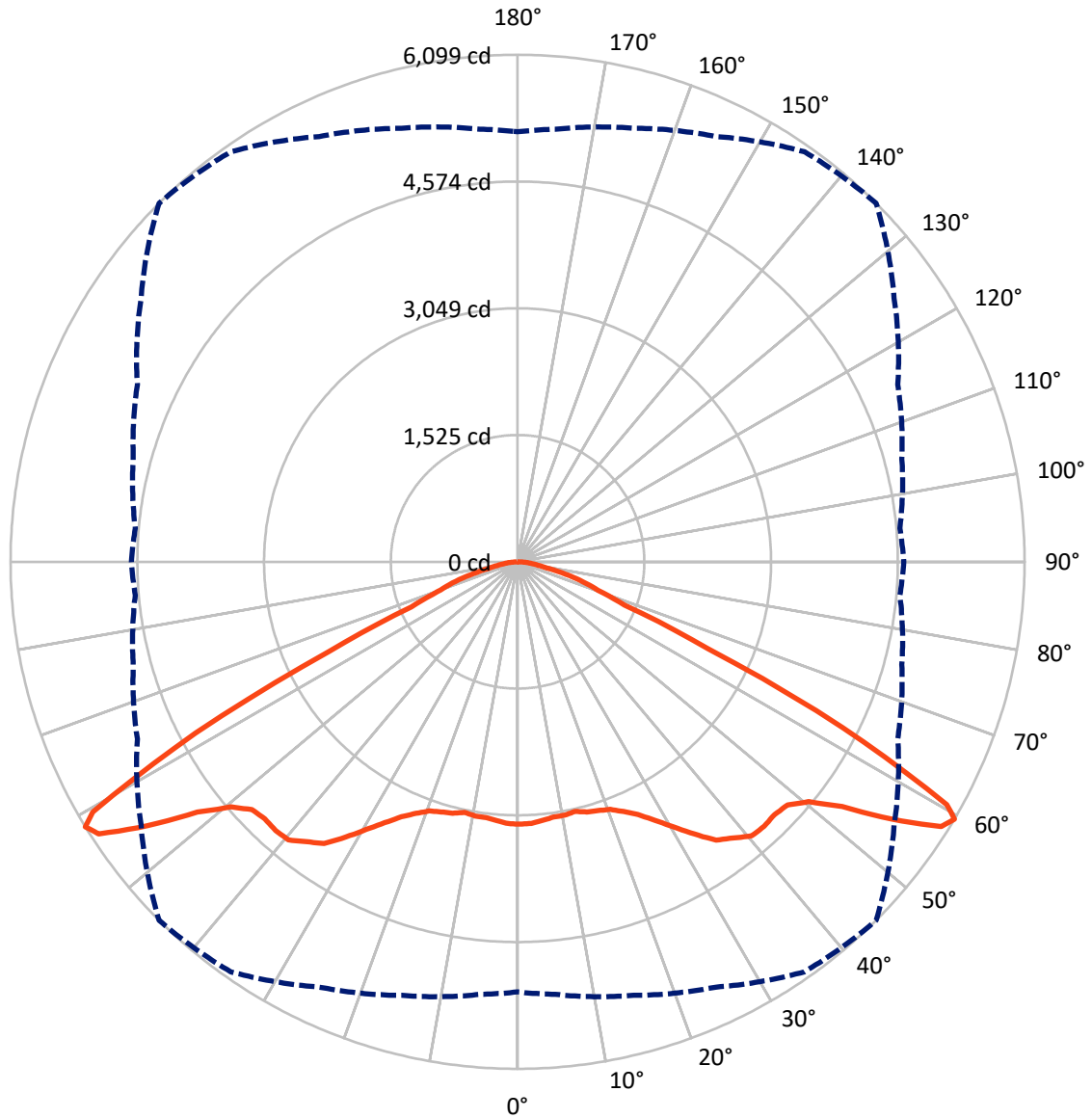
× Max cd  
 - - - 1/2 Max cd



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 45-Deg Lateral      - - - Horizontal Cone Through 59-Deg Vertical

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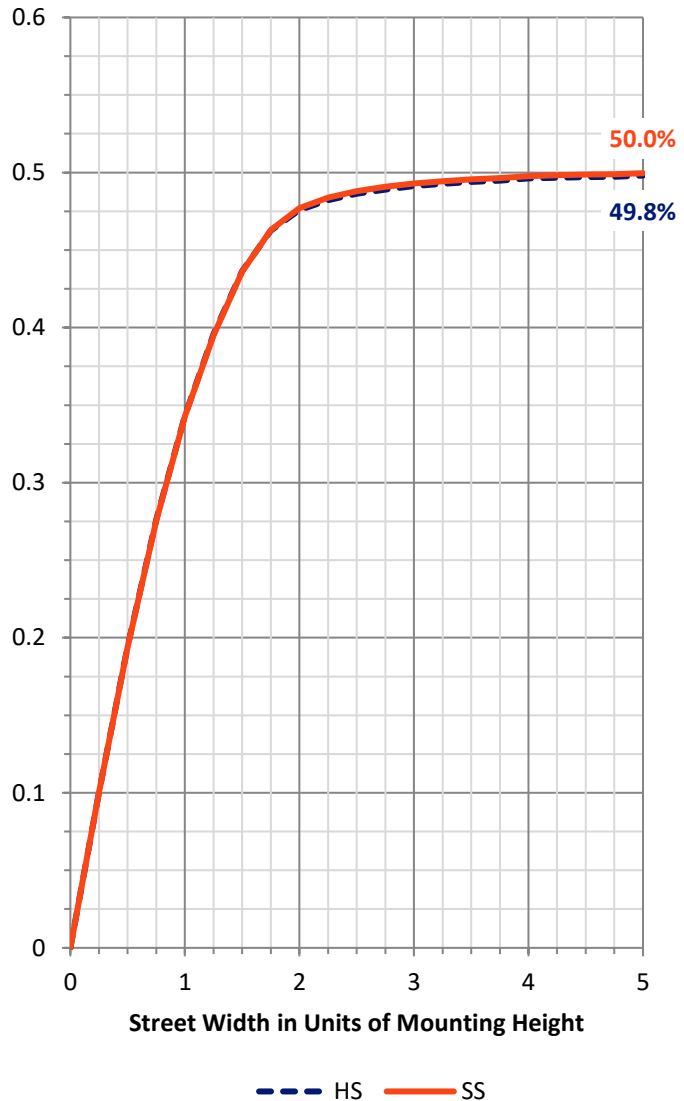
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8169.9	0.0	8169.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8169.9	0.0	8169.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16339.8	0.0	16339.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	297.5	1.8
10°-20°	884.8	5.4
20°-30°	1544.9	9.5
30°-40°	2467.4	15.1
40°-50°	3361.1	20.6
50°-60°	4545.1	27.8
60°-70°	2492.6	15.3
70°-80°	637.7	3.9
80°-90°	108.7	0.7
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°	16339.8	100.0
0°-180°	16339.8	100.0

**Coefficient of Utilization**



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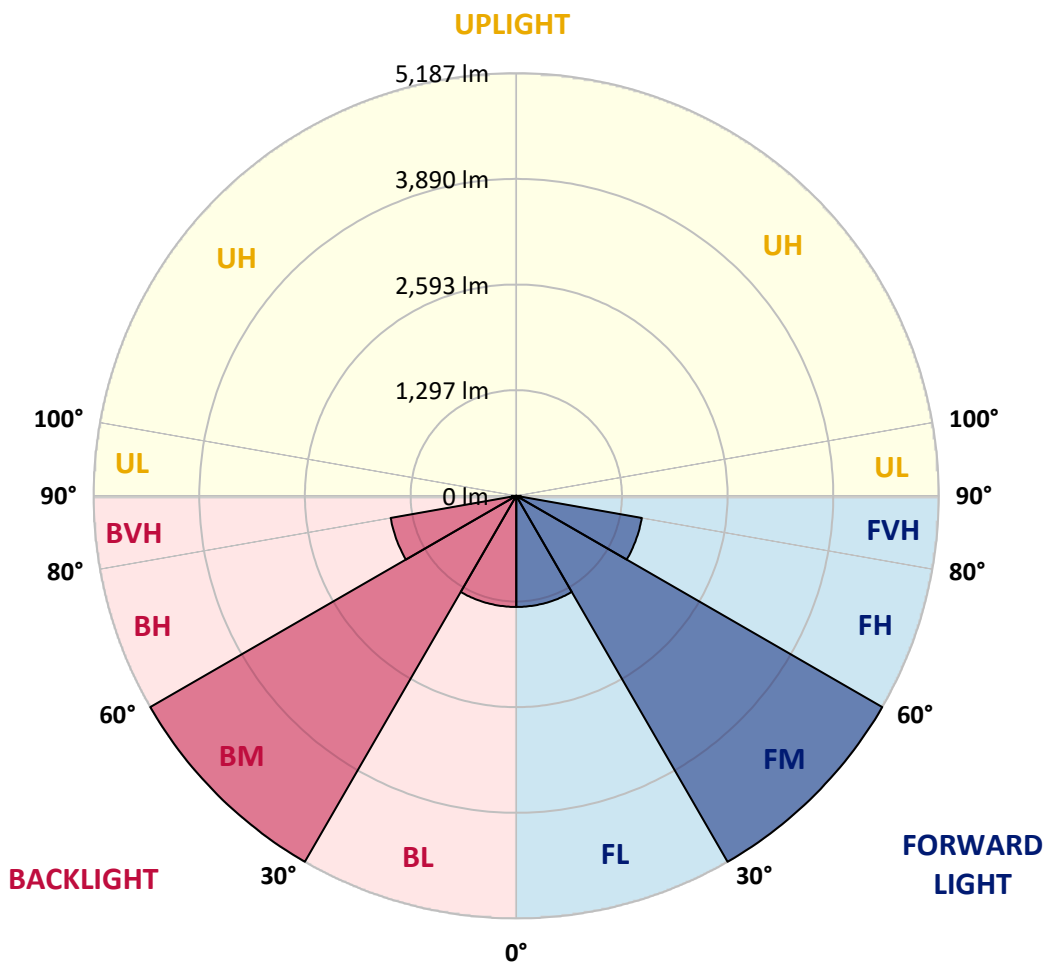
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1363.6	8.3			
FM (30°-60°)	5186.8	31.7			
FH (60°-80°)	1565.1	9.6			G1/1800
FVH (80°-90°)	54.4	0.3			G1/100
BL (0°-30°)	1363.6	8.3	B3/2500		
BM (30°-60°)	5186.8	31.7	B4/8500		
BH (60°-80°)	1565.1	9.6	B3/2500		G1/1800
BVH (80°-90°)	54.4	0.3			G1/100
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°	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1	3156.1
2.5°	3137.2	3160.2	3143.5	3158.1	3156.1	3149.8	3139.3	3133.1	3124.7	3137.2	3116.2
5°	3124.7	3143.5	3162.3	3137.2	3137.2	3124.7	3118.3	3105.8	3105.8	3103.7	3101.6
7.5°	3145.6	3126.8	3118.3	3122.5	3126.8	3099.5	3118.3	3093.2	3072.3	3087.0	3103.7
10°	3126.8	3135.2	3103.7	3118.3	3095.3	3099.5	3087.0	3103.7	3080.7	3080.7	3080.7
12.5°	3145.6	3122.5	3133.1	3122.5	3116.2	3080.7	3097.4	3078.6	3076.5	3097.4	3078.6
15°	3183.3	3145.6	3137.2	3116.2	3122.5	3122.5	3105.8	3107.9	3084.9	3097.4	3101.6
17.5°	3170.7	3149.8	3143.5	3118.3	3139.3	3145.6	3114.1	3093.2	3107.9	3105.8	3103.7
20°	3181.2	3189.6	3183.3	3187.5	3195.9	3179.1	3149.8	3120.4	3101.6	3128.9	3126.8
22.5°	3248.2	3239.9	3235.7	3231.5	3246.1	3262.9	3223.0	3177.0	3177.0	3195.9	3204.2
25°	3302.7	3300.6	3298.5	3317.3	3367.6	3367.6	3317.3	3258.7	3244.0	3256.6	3246.1
27.5°	3382.2	3405.3	3396.9	3430.4	3503.7	3520.5	3453.5	3384.4	3344.6	3329.9	3348.8
30°	3564.4	3537.2	3543.5	3579.1	3644.1	3698.5	3595.9	3522.5	3468.1	3466.0	3474.4
32.5°	3685.9	3706.9	3725.7	3759.2	3861.9	3903.8	3780.1	3660.8	3627.3	3608.4	3614.7
35°	3928.8	3910.0	3905.9	3939.3	4041.9	4111.1	3956.1	3851.4	3807.4	3849.3	3849.3
37.5°	4159.2	4106.9	4067.1	4111.1	4205.3	4213.7	4081.7	4025.2	4002.2	4050.3	4048.2
40°	4268.2	4264.0	4171.8	4196.9	4322.6	4335.1	4211.6	4144.5	4140.4	4203.2	4266.1
42.5°	4381.2	4341.4	4249.2	4266.1	4343.5	4347.7	4230.4	4211.6	4257.6	4318.4	4322.6
45°	4400.0	4366.6	4307.9	4266.1	4322.6	4335.1	4266.1	4278.6	4282.8	4356.0	4356.0
47.5°	4437.8	4433.6	4400.0	4368.7	4379.1	4368.7	4324.7	4343.5	4406.3	4441.9	4425.2
50°	4542.5	4498.5	4532.0	4504.8	4506.8	4536.2	4496.4	4515.2	4502.7	4471.3	4450.3
52.5°	4772.8	4751.9	4781.3	4800.1	4821.0	4888.1	4842.0	4741.4	4647.2	4563.4	4561.3
55°	5110.0	5124.7	5181.2	5277.5	5359.3	5466.1	5244.1	5003.2	4852.4	4720.4	4728.9
57.5°	5428.3	5417.9	5495.3	5715.3	5954.0	6008.4	5572.9	5229.4	4984.4	4900.6	4865.0
59°	5172.8	5223.1	5399.1	5644.0	6019.0	6098.5	5528.9	5045.1	4785.4	4615.7	4645.1
60°	4770.7	4789.6	4946.7	5288.0	5794.8	5931.0	5233.5	4760.3	4414.7	4316.3	4360.2
62.5°	3371.7	3357.1	3470.2	3748.8	4203.2	4387.5	3891.1	3558.2	3340.4	3231.5	3256.6
65°	1792.7	1859.7	1905.8	2079.6	2320.5	2515.2	2310.0	2165.5	2044.0	1954.0	1951.9
67.5°	1210.5	1202.1	1212.6	1252.3	1334.1	1388.5	1384.3	1311.0	1300.5	1283.8	1302.6
70°	1019.9	1015.8	996.8	996.8	1013.7	1026.2	1040.8	1049.2	1066.0	1086.9	1084.8
72.5°	827.2	816.8	804.2	797.9	818.9	825.1	844.0	852.4	867.0	865.0	883.8
75°	546.6	546.6	561.3	578.0	584.3	596.9	599.0	624.1	624.1	628.3	611.5
77.5°	305.8	297.4	307.9	324.6	339.3	362.3	385.3	404.2	414.7	410.5	410.5
80°	178.0	178.0	188.5	207.3	226.1	247.1	263.9	278.5	289.0	284.8	276.4
82.5°	111.0	111.0	121.4	140.3	155.0	167.5	190.6	209.4	222.0	217.8	207.3
85°	56.5	56.5	69.1	81.7	100.5	108.9	106.8	98.4	96.3	85.9	85.9
87.5°	14.6	14.6	20.9	23.0	18.8	20.9	20.9	20.9	20.9	20.9	23.0
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)