

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: P652594

Luminaire Tested: **GALN-SA9B-840-U-5WQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652594  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-5WQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22629.6 lumens  
Efficiency: N/A  
Efficacy: 62.2 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

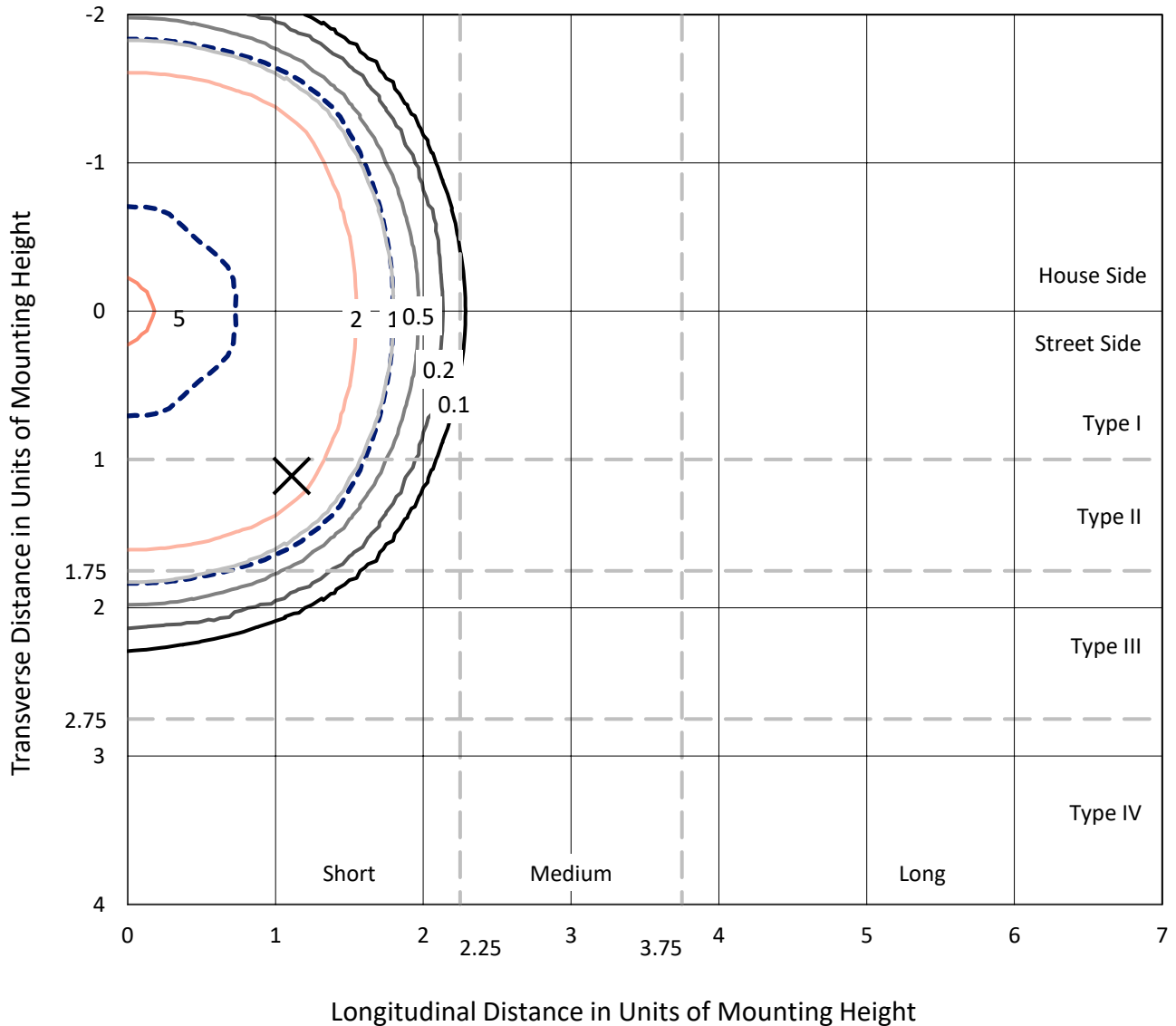
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

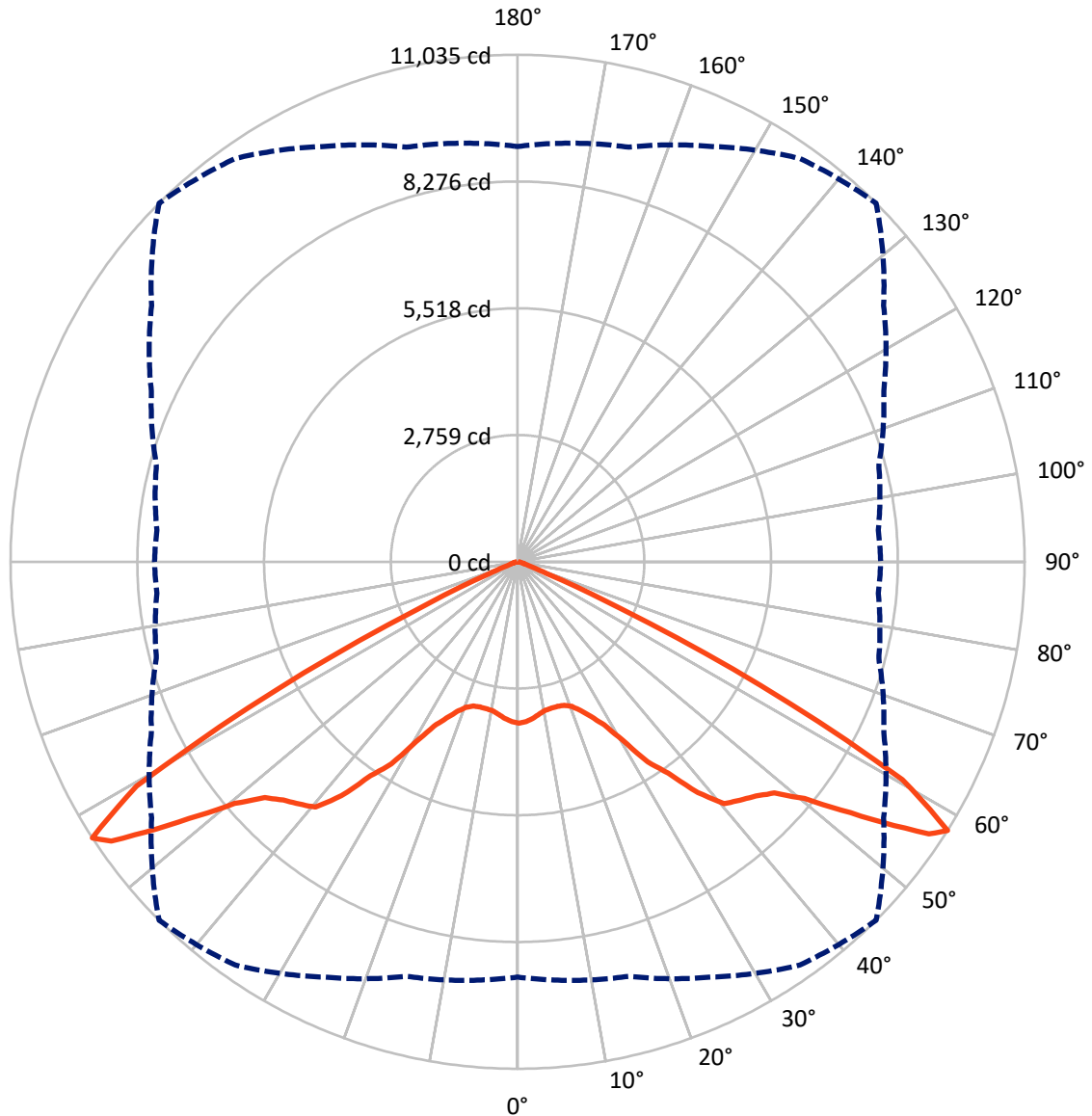
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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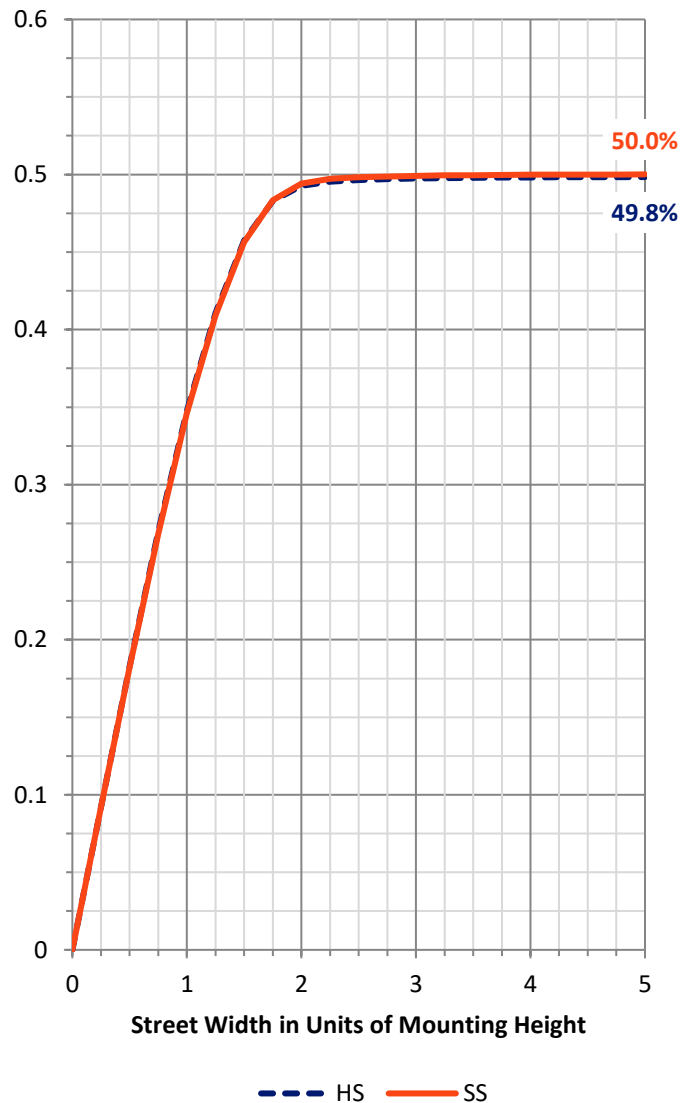
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11314.8	0.0	11314.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11314.8	0.0	11314.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22629.6	0.0	22629.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	322.6	1.4
10°-20°	932.4	4.1
20°-30°	1721.0	7.6
30°-40°	3384.5	15.0
40°-50°	5512.5	24.4
50°-60°	7861.5	34.7
60°-70°	2721.8	12.0
70°-80°	146.0	0.6
80°-90°	27.4	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°	22629.6	100.0
0°-180°	22629.6	100.0

**Coefficient of Utilization**

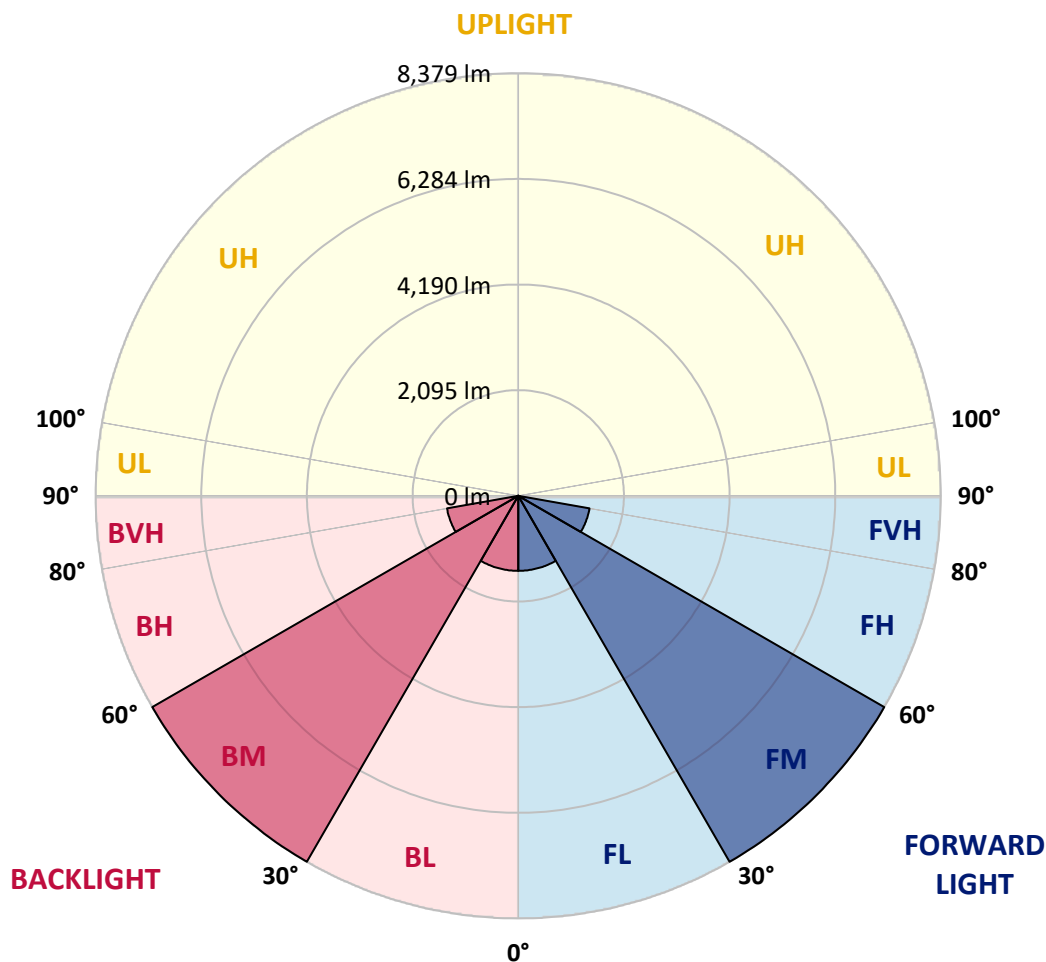


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1487.9	6.6			
FM (30°-60°)	8379.2	37.0			
FH (60°-80°)	1433.9	6.3			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	1487.9	6.6	B3/2500		
BM (30°-60°)	8379.2	37.0	B4/8500		
BH (60°-80°)	1433.9	6.3	B3/2500		G1/1800
BVH (80°-90°)	13.7	0.1			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°	3510.1	3510.1	3510.1	3510.1	3510.1	3510.1	3510.1	3510.1	3510.1	3510.1	3510.1
2.5°	3500.7	3519.5	3496.0	3486.5	3481.8	3481.8	3467.6	3467.6	3462.9	3467.6	3448.8
5°	3444.1	3462.9	3462.9	3458.2	3429.9	3425.1	3411.0	3401.6	3406.3	3387.5	3401.6
7.5°	3387.5	3401.6	3382.7	3378.0	3368.5	3349.7	3345.0	3302.5	3307.2	3307.2	3316.7
10°	3378.0	3373.3	3345.0	3321.4	3293.1	3288.4	3274.2	3264.8	3264.8	3260.1	3274.2
12.5°	3378.0	3354.4	3349.7	3297.8	3250.6	3269.5	3231.7	3208.2	3241.2	3250.6	3269.5
15°	3373.3	3396.9	3316.7	3293.1	3260.1	3264.8	3231.7	3208.2	3227.0	3236.4	3250.6
17.5°	3401.6	3387.5	3363.8	3316.7	3302.5	3283.6	3241.2	3222.3	3222.3	3245.9	3250.6
20°	3477.0	3439.4	3392.2	3368.5	3382.7	3359.1	3307.2	3236.4	3255.3	3274.2	3288.4
22.5°	3547.8	3519.5	3486.5	3472.3	3552.6	3514.8	3425.1	3345.0	3316.7	3349.7	3373.3
25°	3684.7	3684.7	3623.3	3642.2	3731.9	3736.6	3632.8	3491.2	3472.3	3486.5	3496.0
27.5°	3963.0	3977.2	3925.3	3944.1	3981.9	4014.9	3925.3	3807.3	3764.8	3760.1	3774.3
30°	4265.0	4293.2	4288.5	4368.7	4477.2	4496.2	4364.0	4170.6	4043.2	4019.6	4038.5
32.5°	4661.2	4675.4	4666.0	4760.3	5052.8	5189.6	4845.3	4571.6	4401.8	4444.3	4401.8
35°	5406.7	5392.5	5288.7	5307.6	5548.2	5647.3	5317.1	5142.5	5062.2	5147.2	5128.3
37.5°	6048.3	5996.4	5911.5	6034.2	6284.2	6373.9	6029.5	5722.8	5576.5	5718.0	5779.4
40°	6590.8	6458.8	6340.8	6463.5	6798.5	6921.1	6416.3	6166.2	6109.6	6213.4	6345.5
42.5°	7048.5	6963.6	6807.9	6817.3	7039.1	7095.7	6689.9	6543.7	6487.1	6652.2	6718.2
45°	7374.1	7293.8	7147.6	7138.2	7308.0	7270.2	6907.0	6807.9	6840.9	6949.4	6982.4
47.5°	7539.1	7581.6	7496.7	7520.3	7610.0	7520.3	7232.5	7232.5	7157.0	7223.0	7190.0
50°	8015.7	7883.5	7992.0	7992.0	8086.4	8095.9	7808.1	7704.3	7501.4	7388.2	7388.2
52.5°	8572.4	8581.8	8624.3	8780.0	8940.3	9077.2	8666.8	8223.2	7883.5	7737.3	7718.4
55°	9030.0	9124.3	9294.2	9586.7	10049.0	10237.7	9530.1	8737.5	8322.3	8095.9	8048.7
56°	9280.0	9190.4	9482.9	9883.9	10487.8	10733.2	9671.6	8841.3	8383.7	8128.9	8124.1
57.5°	9039.4	9138.5	9341.4	9973.6	10714.3	11035.1	9723.6	8794.1	8138.4	7878.8	7902.5
60°	7138.2	7232.5	7506.1	8213.8	9374.4	9624.5	8227.9	7251.4	6666.4	6293.6	6298.3
62.5°	4038.5	4109.3	4321.6	4977.4	5699.2	5939.8	5128.3	4477.2	4071.5	3863.9	3797.9
65°	1486.1	1457.8	1490.8	1825.8	2269.3	2472.2	2132.4	1802.3	1589.9	1514.5	1486.1
67.5°	556.7	514.3	481.2	514.3	646.3	684.1	627.5	523.7	490.6	504.9	514.3
70°	344.4	325.6	259.4	245.3	240.6	235.9	250.0	264.2	301.9	353.8	363.3
72.5°	240.6	226.5	184.0	174.6	165.1	160.4	184.0	202.8	235.9	273.7	278.4
75°	94.4	99.1	94.4	103.8	108.5	113.2	132.1	146.2	160.4	160.4	155.7
77.5°	18.8	18.8	28.3	37.8	47.2	61.3	89.7	103.8	108.5	103.8	89.7
80°	0.0	0.0	9.4	18.8	37.8	51.9	80.2	89.7	99.1	89.7	70.7
82.5°	0.0	0.0	9.4	23.5	37.8	47.2	75.5	94.4	108.5	99.1	75.5
85°	0.0	0.0	9.4	18.8	28.3	33.1	33.1	23.5	23.5	14.1	9.4
87.5°	0.0	0.0	0.0	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)