

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: P652039

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652039  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
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-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27412.4 lumens  
Efficiency: N/A  
Efficacy: 112.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

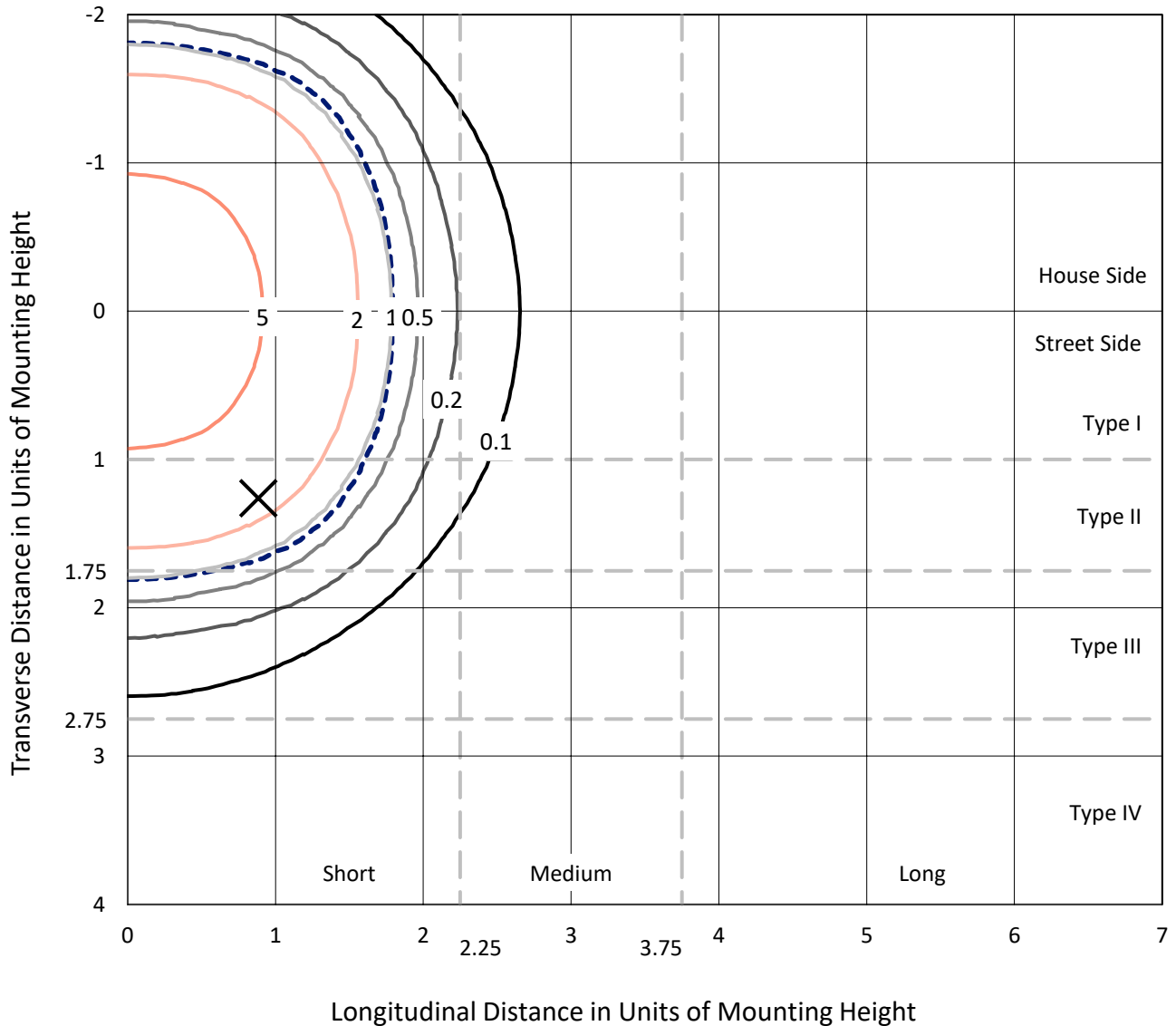
Input Watts (W): 244  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

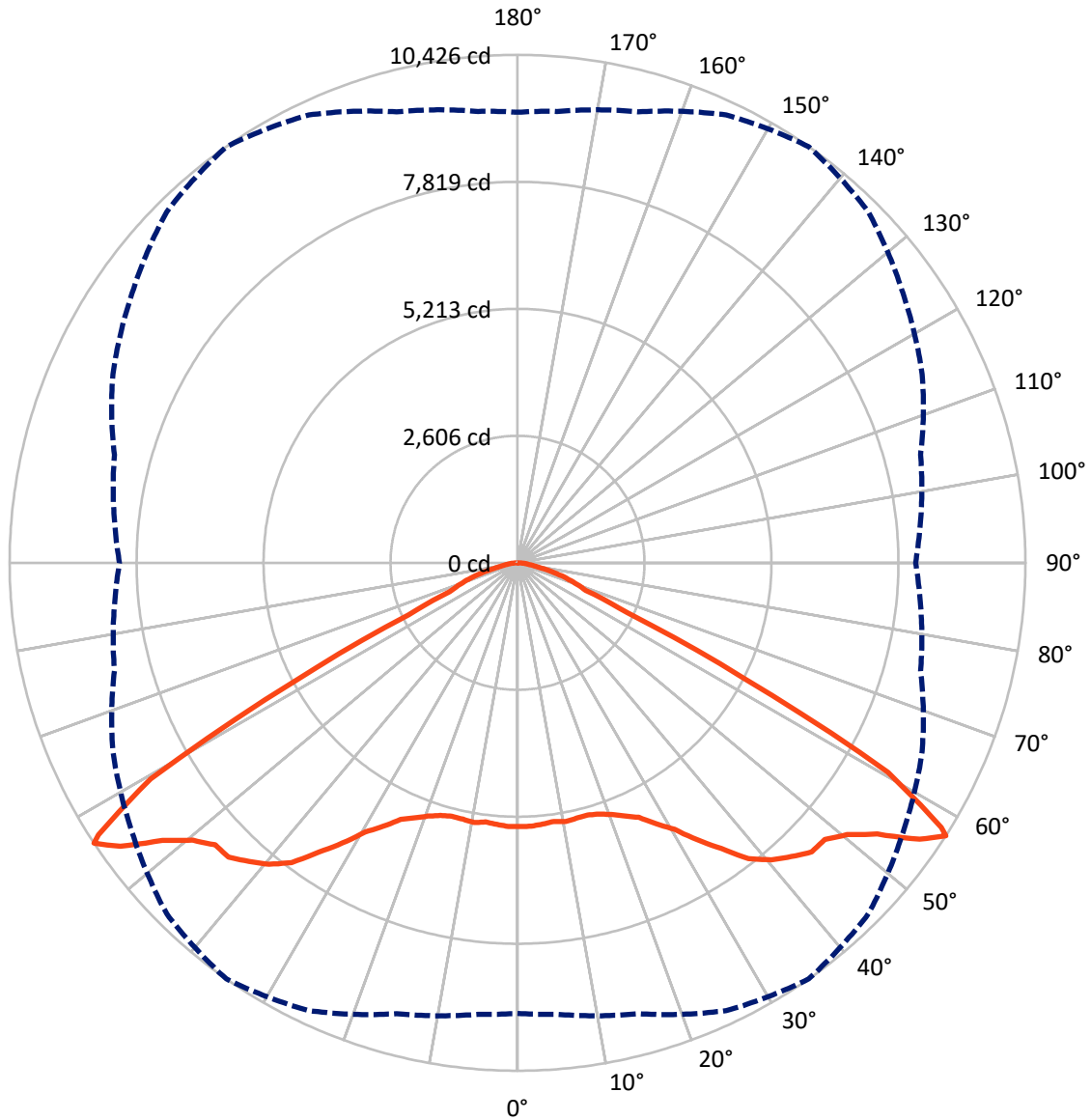
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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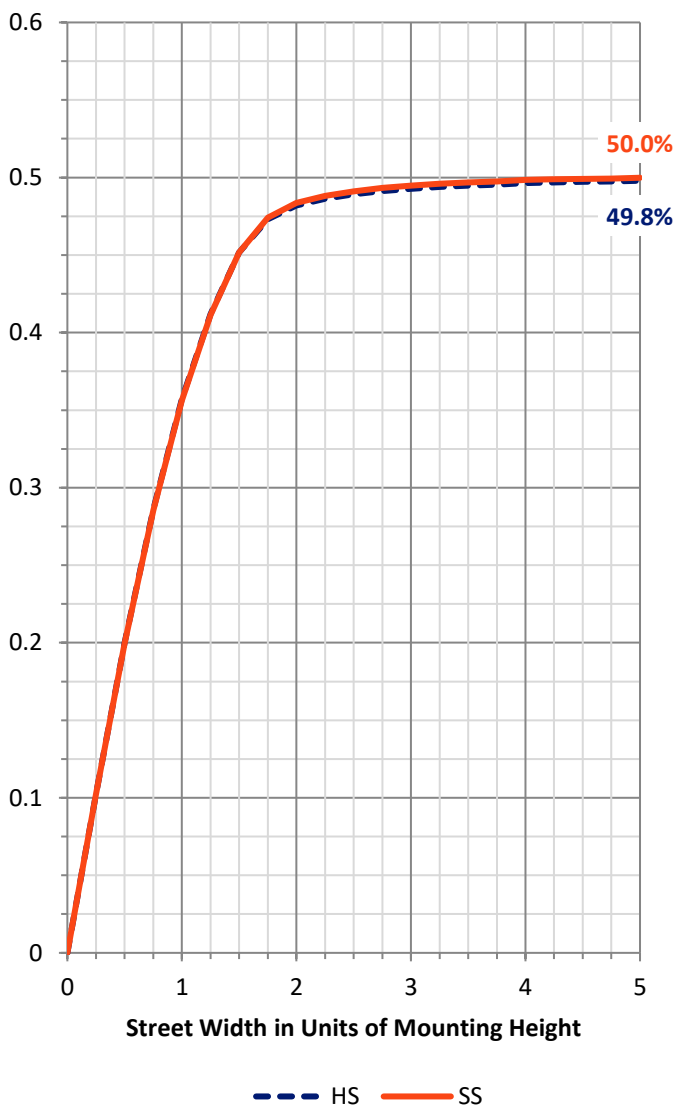
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13706.2	0.0	13706.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13706.2	0.0	13706.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	27412.4	0.0	27412.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.2	1.9
10°-20°	1520.1	5.5
20°-30°	2654.8	9.7
30°-40°	4350.0	15.9
40°-50°	6378.1	23.3
50°-60°	8033.7	29.3
60°-70°	3021.4	11.0
70°-80°	803.4	2.9
80°-90°	137.7	0.5
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°	27412.4	100.0
0°-180°	27412.4	100.0

**Coefficient of Utilization**



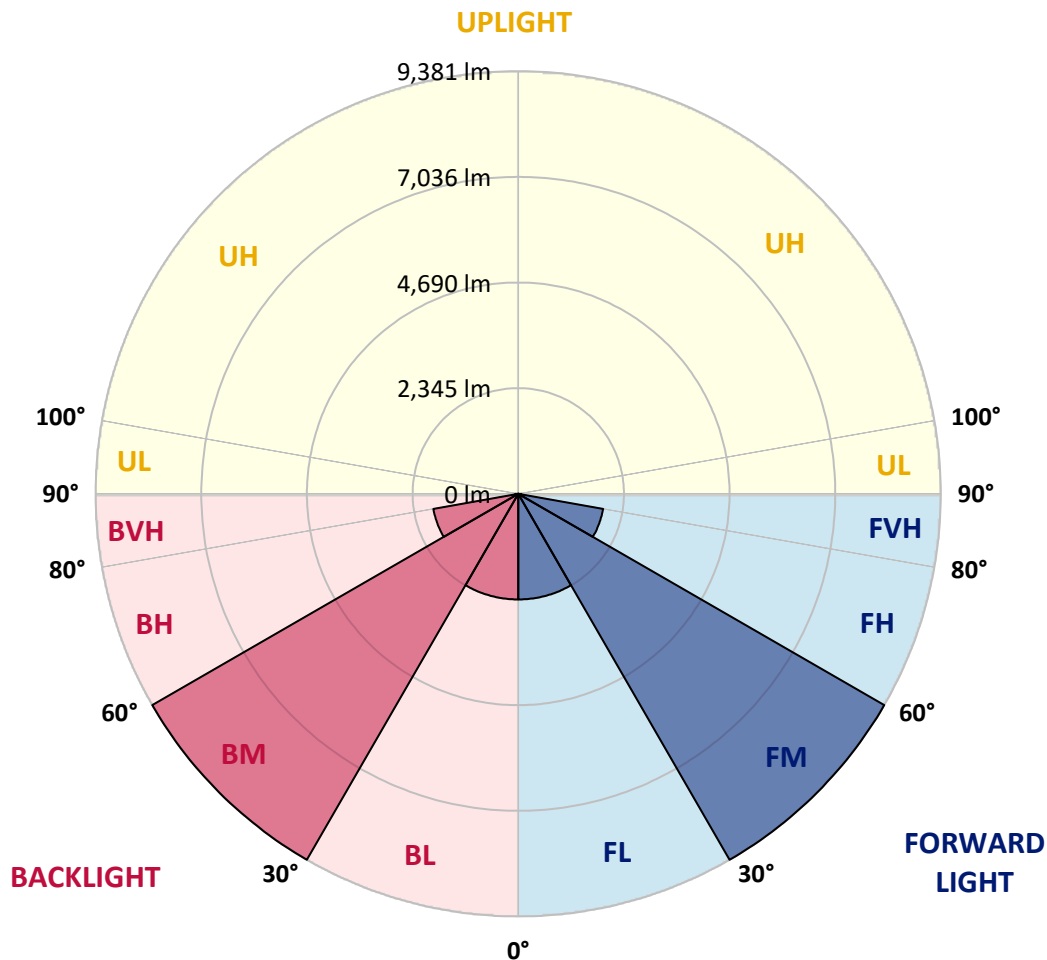
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2344.1	8.6			
FM (30°-60°)	9380.9	34.2			
FH (60°-80°)	1912.4	7.0			G2/5000
FVH (80°-90°)	68.9	0.3			G1/100
BL (0°-30°)	2344.1	8.6	B3/2500		
BM (30°-60°)	9380.9	34.2	B5		
BH (60°-80°)	1912.4	7.0	B3/2500		G2/5000
BVH (80°-90°)	68.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5413.8	5413.8	5413.8	5413.8	5413.8	5413.8	5413.8	5413.8	5413.8	5413.8	5413.8
2.5°	5386.7	5440.8	5417.1	5403.6	5413.8	5396.9	5369.9	5400.2	5393.5	5366.5	5356.3
5°	5373.2	5413.8	5386.7	5413.8	5386.7	5434.0	5420.5	5369.9	5430.7	5373.2	5393.5
7.5°	5363.1	5376.6	5383.3	5369.9	5359.7	5417.1	5386.7	5363.1	5329.3	5319.2	5336.1
10°	5339.4	5373.2	5322.5	5390.1	5403.6	5363.1	5363.1	5319.2	5292.2	5275.3	5332.7
12.5°	5400.2	5342.8	5336.1	5369.9	5380.0	5396.9	5349.6	5326.0	5275.3	5282.1	5271.9
15°	5329.3	5353.0	5356.3	5363.1	5373.2	5413.8	5369.9	5319.2	5298.9	5228.0	5234.7
17.5°	5356.3	5332.7	5356.3	5434.0	5420.5	5450.9	5403.6	5326.0	5278.6	5238.2	5292.2
20°	5403.6	5393.5	5403.6	5498.2	5515.0	5542.1	5501.6	5430.7	5339.4	5292.2	5319.2
22.5°	5454.3	5447.5	5454.3	5545.5	5643.4	5677.2	5636.6	5471.1	5423.9	5336.1	5305.7
25°	5545.5	5552.2	5623.1	5724.4	5788.6	5852.8	5778.5	5660.3	5508.3	5454.3	5390.1
27.5°	5748.1	5765.0	5805.5	5954.1	6065.5	6123.0	6018.3	5856.1	5761.6	5650.2	5633.3
30°	5998.0	5998.0	6068.9	6197.2	6349.2	6437.0	6308.8	6116.3	6001.4	5940.6	5903.5
32.5°	6328.9	6291.9	6318.9	6545.2	6781.6	6855.8	6683.6	6447.2	6264.8	6183.8	6156.7
35°	6612.7	6636.3	6697.1	6940.3	7203.7	7375.9	7105.8	6798.4	6612.7	6538.4	6524.9
37.5°	6980.8	7021.3	7051.7	7386.1	7703.6	7767.7	7507.6	7261.1	7034.8	6974.1	6940.3
40°	7500.9	7473.9	7484.0	7730.6	8017.6	8058.1	7801.5	7625.9	7440.1	7403.0	7403.0
42.5°	7929.8	7899.4	7933.2	8024.4	8243.9	8213.5	8071.7	7943.3	7865.6	7825.1	7865.6
45°	8189.8	8183.1	8243.9	8311.4	8466.8	8365.5	8254.0	8274.3	8200.0	8132.5	8129.0
47.5°	8473.6	8429.7	8503.9	8605.3	8487.0	8439.8	8433.0	8476.9	8453.3	8335.1	8297.9
50°	8612.0	8595.1	8713.3	8831.5	8767.3	8659.3	8682.9	8753.9	8449.9	8291.2	8200.0
52.5°	8983.5	8986.9	9213.2	9277.3	9250.3	9091.5	9142.3	8949.8	8591.7	8368.9	8379.0
55°	9567.8	9544.2	9797.4	9986.5	10017.0	9814.3	9571.2	9301.0	8851.8	8625.5	8558.0
57°	9247.0	9301.0	9581.3	10141.9	10425.6	10185.8	9655.6	9162.5	8564.7	8291.2	8169.6
57.5°	8818.1	8905.9	9392.1	9956.2	10253.4	10233.1	9550.9	8905.9	8372.2	7946.7	7956.8
60°	6460.7	6477.6	6916.6	7811.6	8740.3	8760.6	7929.8	7075.3	6481.0	6018.3	6082.4
62.5°	3407.6	3485.4	3661.0	4380.3	5184.1	5380.0	4876.8	4437.7	3924.4	3573.2	3606.9
65°	1803.4	1793.3	1877.8	2080.4	2475.6	2576.8	2509.3	2161.5	1982.5	1925.0	1928.4
67.5°	1465.7	1482.6	1472.5	1482.6	1509.6	1553.6	1543.4	1556.9	1567.0	1583.9	1580.6
70°	1242.8	1242.8	1249.6	1252.9	1252.9	1273.2	1296.9	1340.8	1344.2	1361.1	1367.8
72.5°	979.4	972.6	982.8	1006.4	1009.8	1026.7	1060.5	1087.5	1097.6	1097.6	1077.3
75°	665.3	672.0	685.6	705.9	726.1	756.5	783.6	800.4	807.2	797.0	786.9
77.5°	374.8	381.6	391.7	422.2	445.8	472.8	503.2	520.1	537.0	540.3	520.1
80°	222.9	222.9	239.8	263.4	290.5	317.5	344.5	364.7	371.5	371.5	361.4
82.5°	135.1	138.4	152.0	175.6	199.2	216.1	239.8	256.7	270.2	266.8	260.0
85°	70.9	70.9	84.4	104.7	121.6	138.4	138.4	128.3	121.6	104.7	98.0
87.5°	23.6	20.3	27.0	27.0	23.6	27.0	27.0	30.4	30.4	30.4	30.4
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)