

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: P651116

Luminaire Tested: **GALN-SA9C-840-U-RW-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-RW-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34639.1 lumens  
Efficiency: N/A  
Efficacy: 72.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

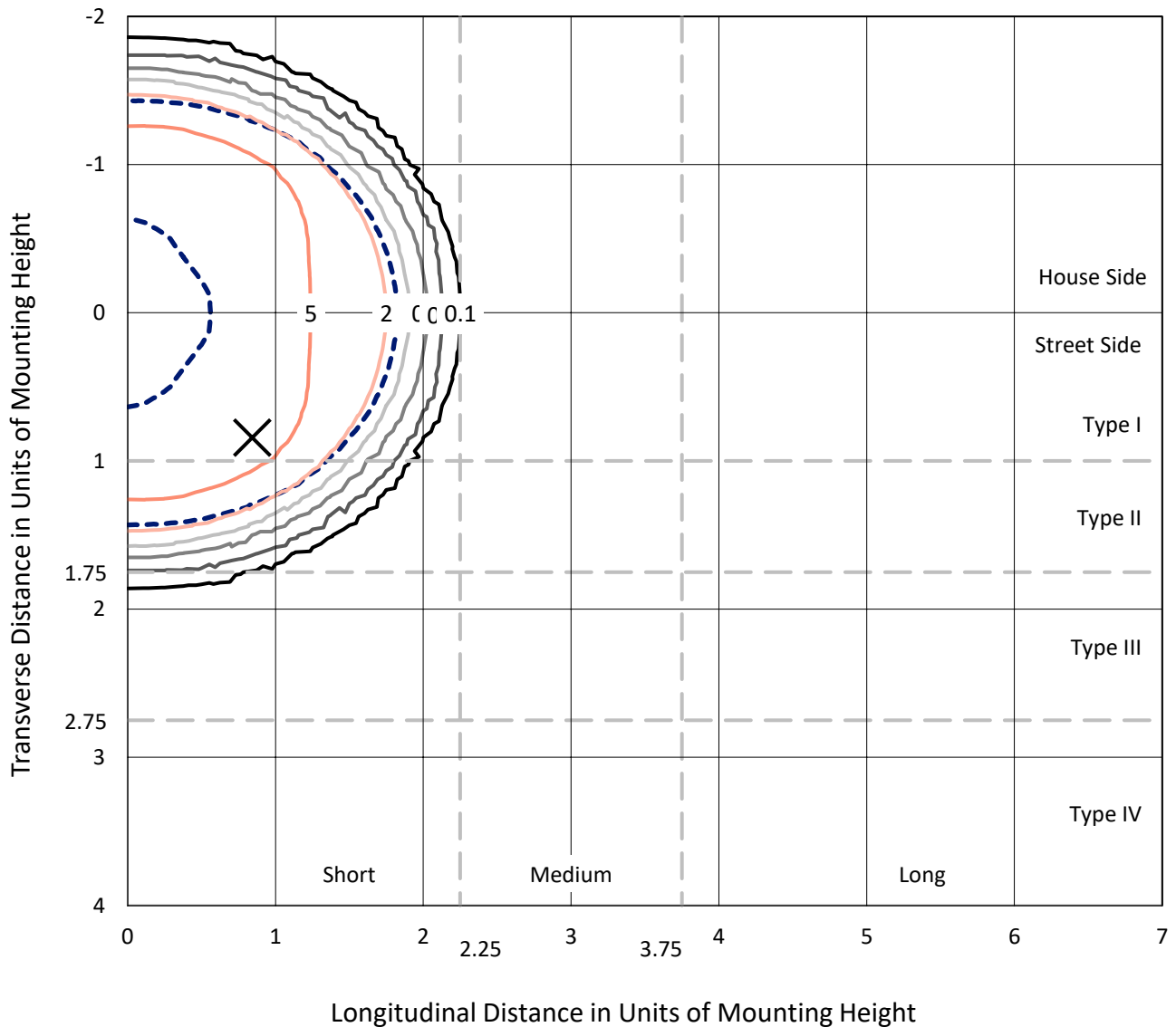
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

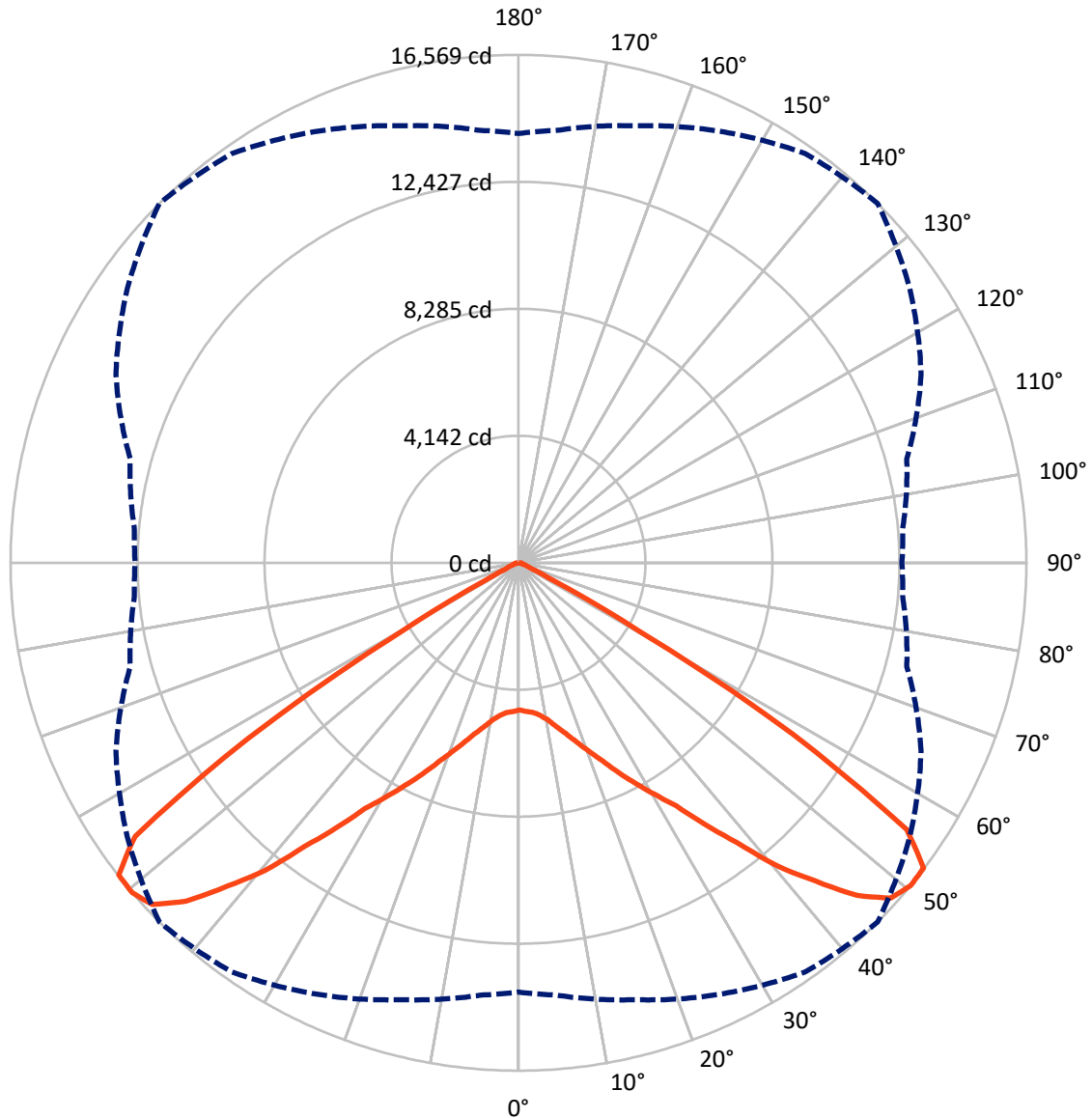
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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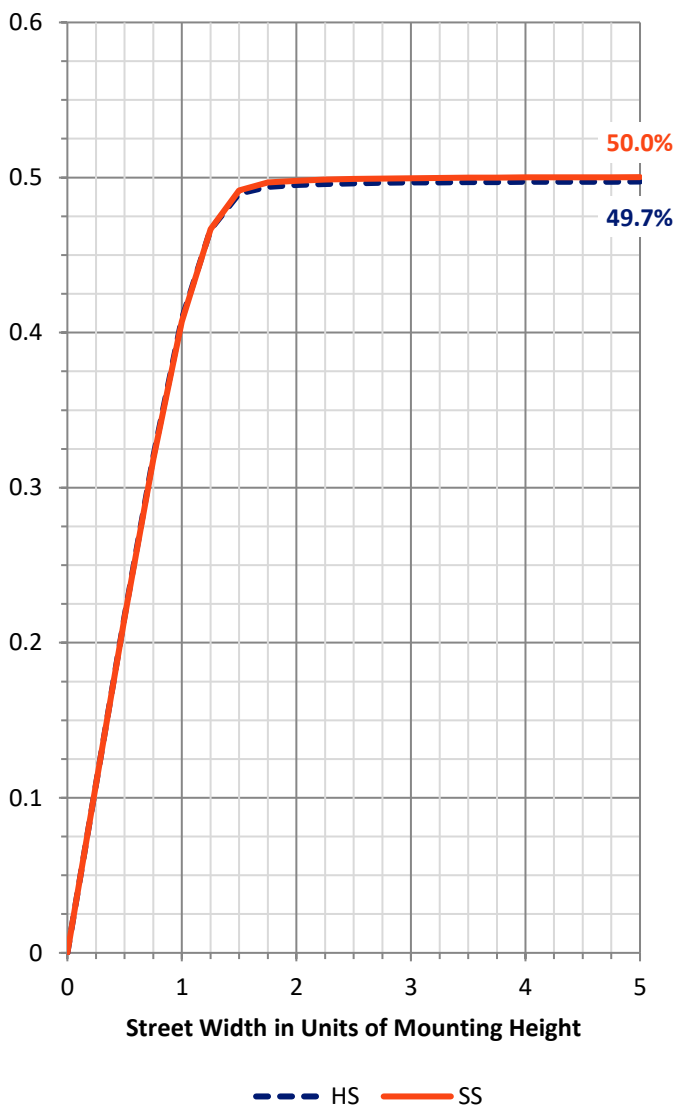
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17319.6	0.0	17319.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17319.6	0.0	17319.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34639.1	0.0	34639.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	477.8	1.4
10°-20°	1646.6	4.8
20°-30°	3363.1	9.7
30°-40°	6413.4	18.5
40°-50°	10807.5	31.2
50°-60°	10306.9	29.8
60°-70°	1438.8	4.2
70°-80°	137.6	0.4
80°-90°	47.6	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°	34639.1	100.0
0°-180°	34639.1	100.0

**Coefficient of Utilization**



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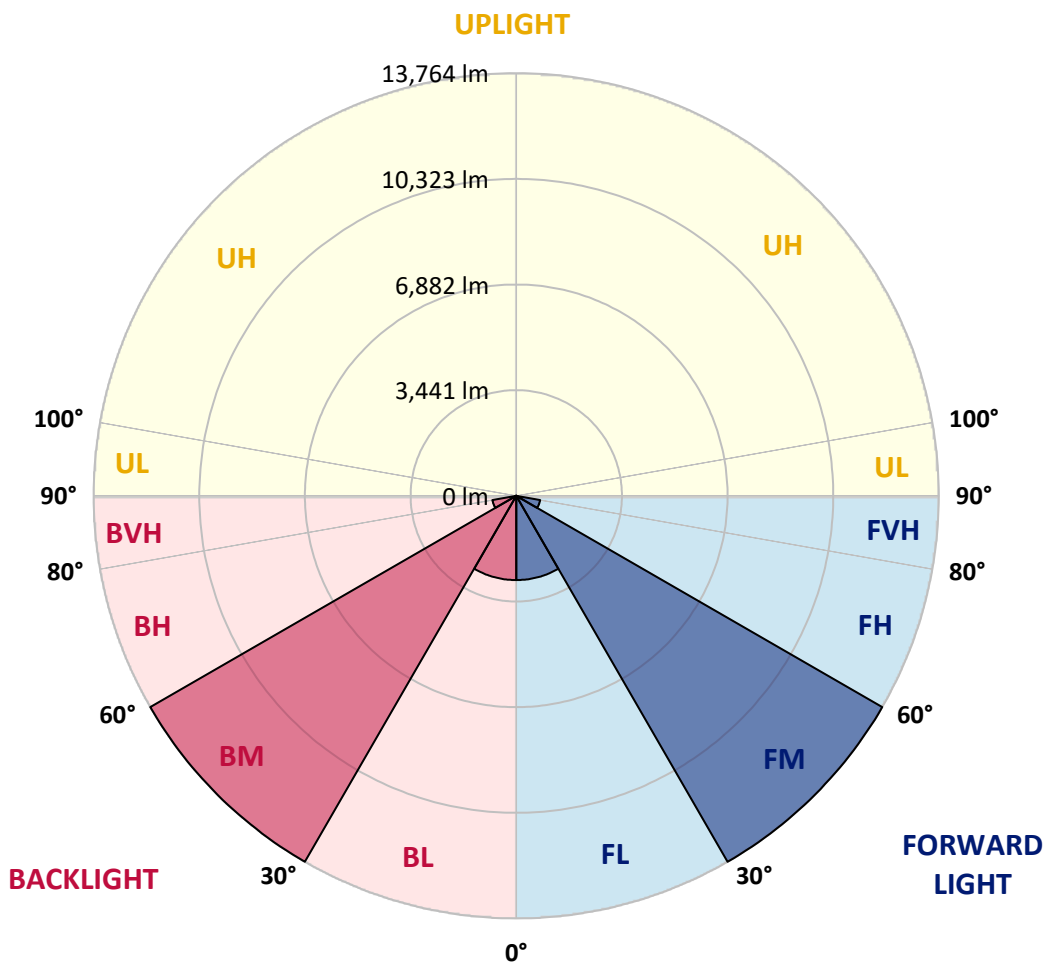
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2743.7	7.9			
FM (30°-60°)	13763.9	39.7			
FH (60°-80°)	788.2	2.3			G1/1800
FVH (80°-90°)	23.8	0.1			G1/100
BL (0°-30°)	2743.7	7.9	B4/5000		
BM (30°-60°)	13763.9	39.7	B5		
BH (60°-80°)	788.2	2.3	B2/1000		G1/1800
BVH (80°-90°)	23.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4802.4	4802.4	4802.4	4802.4	4802.4	4802.4	4802.4	4802.4	4802.4	4802.4	4802.4
2.5°	4784.9	4784.9	4779.0	4825.7	4802.4	4854.8	4849.0	4866.4	4883.9	4878.1	4924.7
5°	4744.1	4738.2	4738.2	4790.7	4843.2	4901.4	4953.8	4988.8	5047.1	5047.1	5105.4
7.5°	4784.9	4755.7	4796.5	4819.9	4918.9	5018.0	5105.4	5175.3	5309.4	5356.0	5338.5
10°	4796.5	4831.5	4860.6	4930.5	5053.0	5204.4	5280.2	5455.1	5606.6	5711.5	5734.9
12.5°	4872.2	4924.7	5006.3	5175.3	5286.0	5484.2	5589.1	5758.2	5967.9	6084.5	6166.1
15°	5018.0	5035.5	5140.4	5356.0	5594.9	5775.7	5938.8	6061.2	6265.2	6399.3	6405.1
17.5°	5204.4	5280.2	5426.0	5629.9	5880.5	6148.6	6276.8	6410.9	6486.6	6667.3	6708.2
20°	5577.4	5589.1	5729.0	5997.1	6311.8	6556.6	6649.9	6719.8	6690.7	6877.1	6912.1
22.5°	5927.1	5938.8	6113.6	6475.0	6813.0	7022.9	7063.6	7022.9	6935.4	7069.4	7081.1
25°	6282.7	6387.6	6515.8	6877.1	7296.8	7576.5	7582.3	7471.6	7290.9	7314.3	7372.5
27.5°	6836.3	6912.1	7046.2	7378.3	7838.8	8153.5	8101.0	7967.0	7733.8	7751.3	7733.8
30°	7483.2	7553.2	7663.9	8089.3	8427.4	8771.2	8847.0	8718.8	8369.1	8293.4	8380.7
32.5°	8264.2	8363.3	8567.3	8957.7	9243.3	9453.1	9505.6	9459.0	9132.6	9103.5	9161.8
35°	9214.2	9348.2	9534.8	9878.6	10111.7	10490.5	10490.5	10333.2	10035.9	10070.9	10065.1
37.5°	10216.6	10414.8	10706.2	11055.9	11370.6	11574.5	11510.4	11376.4	11079.2	11003.4	11079.2
40°	11475.4	11574.5	11941.7	12396.3	12780.9	13014.1	12740.1	12448.7	11737.8	11848.4	12052.5
42.5°	12623.6	12780.9	13060.7	13561.9	13999.0	14191.4	13865.0	13288.0	12431.2	12343.9	12495.4
45°	13602.8	13771.7	14138.9	14855.8	15316.2	15485.2	14762.5	13830.0	12850.9	12629.5	12693.5
47.5°	14255.5	14342.9	14855.8	15537.6	15957.3	16341.9	15304.5	14203.0	13049.0	12629.5	12606.1
50°	14004.8	14156.4	14756.7	15531.8	16295.3	16569.2	15578.4	14488.6	13113.1	12577.0	12507.0
52.5°	12437.1	12699.4	13369.6	14412.8	15566.7	16545.9	15957.3	14395.3	13089.8	12629.5	12734.3
55°	8654.6	8660.5	9476.5	11015.1	13054.8	15362.8	15403.6	14500.3	13241.4	12955.8	12961.7
57.5°	3479.4	3654.2	4277.8	5822.2	7704.7	10548.8	12542.0	13451.2	13258.9	13188.9	13369.6
60°	880.0	885.8	1078.2	1643.5	2710.0	4522.6	6568.2	8887.8	10234.1	10694.5	10758.7
62.5°	448.8	454.6	501.2	582.8	740.2	1212.2	2156.4	3421.1	4866.4	5600.8	5793.1
65°	367.2	367.2	396.3	437.1	443.0	466.3	559.5	798.4	1159.8	1317.2	1334.7
67.5°	279.7	279.7	303.1	326.4	338.0	332.2	320.5	332.2	402.2	384.7	373.0
70°	174.8	180.6	192.3	215.6	227.3	233.1	238.9	250.6	285.6	297.2	285.6
72.5°	104.9	104.9	110.8	128.3	145.7	157.4	174.8	186.5	203.9	233.1	227.3
75°	46.6	46.6	58.3	75.8	93.3	110.8	128.3	145.7	157.4	174.8	180.6
77.5°	11.7	17.5	29.1	52.5	70.0	93.3	116.6	134.1	145.7	145.7	139.9
80°	5.8	5.8	23.3	40.8	75.8	99.1	128.3	139.9	157.4	145.7	128.3
82.5°	5.8	5.8	23.3	40.8	70.0	99.1	134.1	151.5	163.2	145.7	122.4
85°	0.0	5.8	17.5	35.0	58.3	70.0	58.3	40.8	23.3	23.3	17.5
87.5°	0.0	0.0	5.8	5.8	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)