

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: P651108

Luminaire Tested: **GALN-SA9C-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651108  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 55939.1 lumens  
Efficiency: N/A  
Efficacy: 116.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

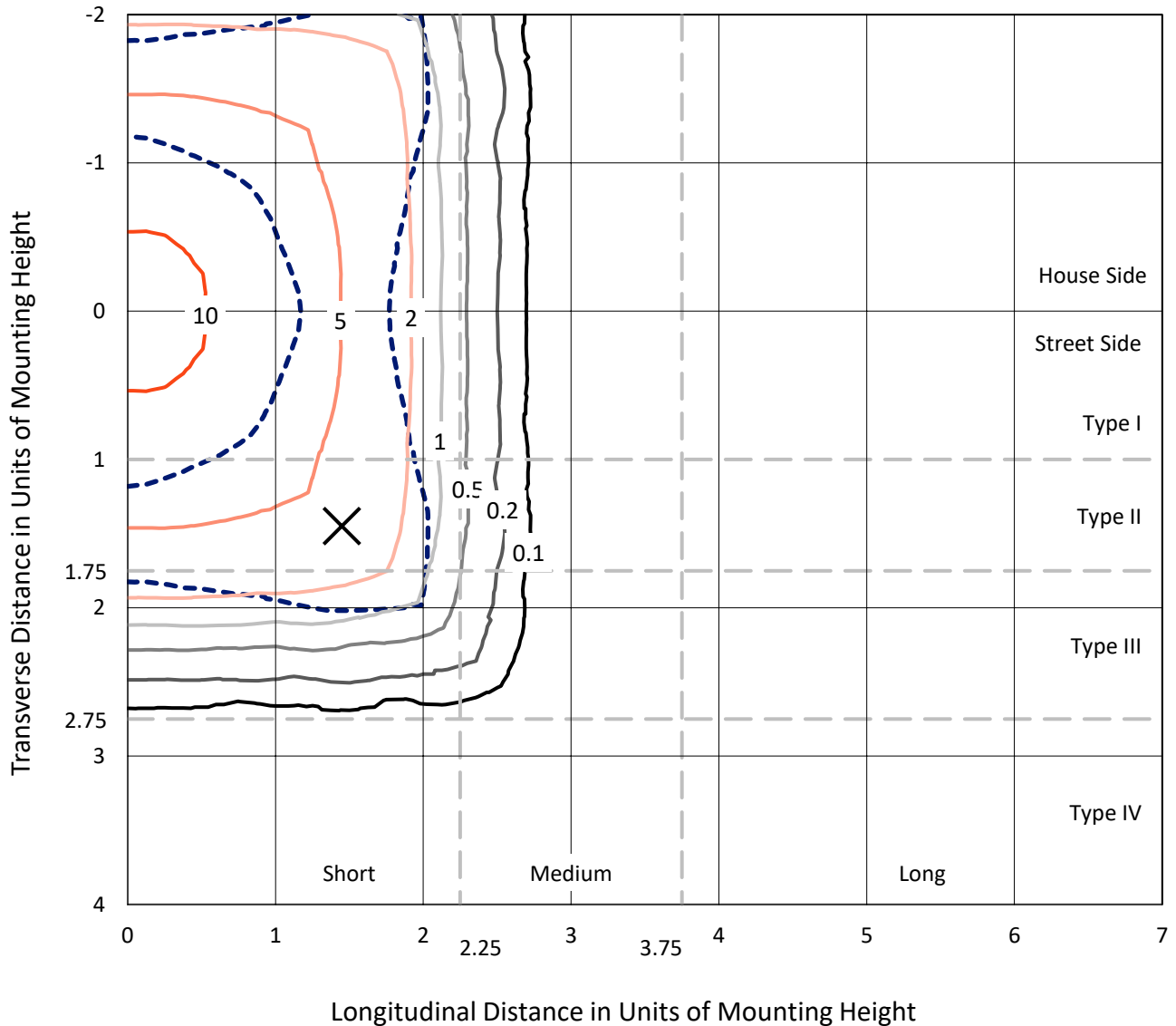
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

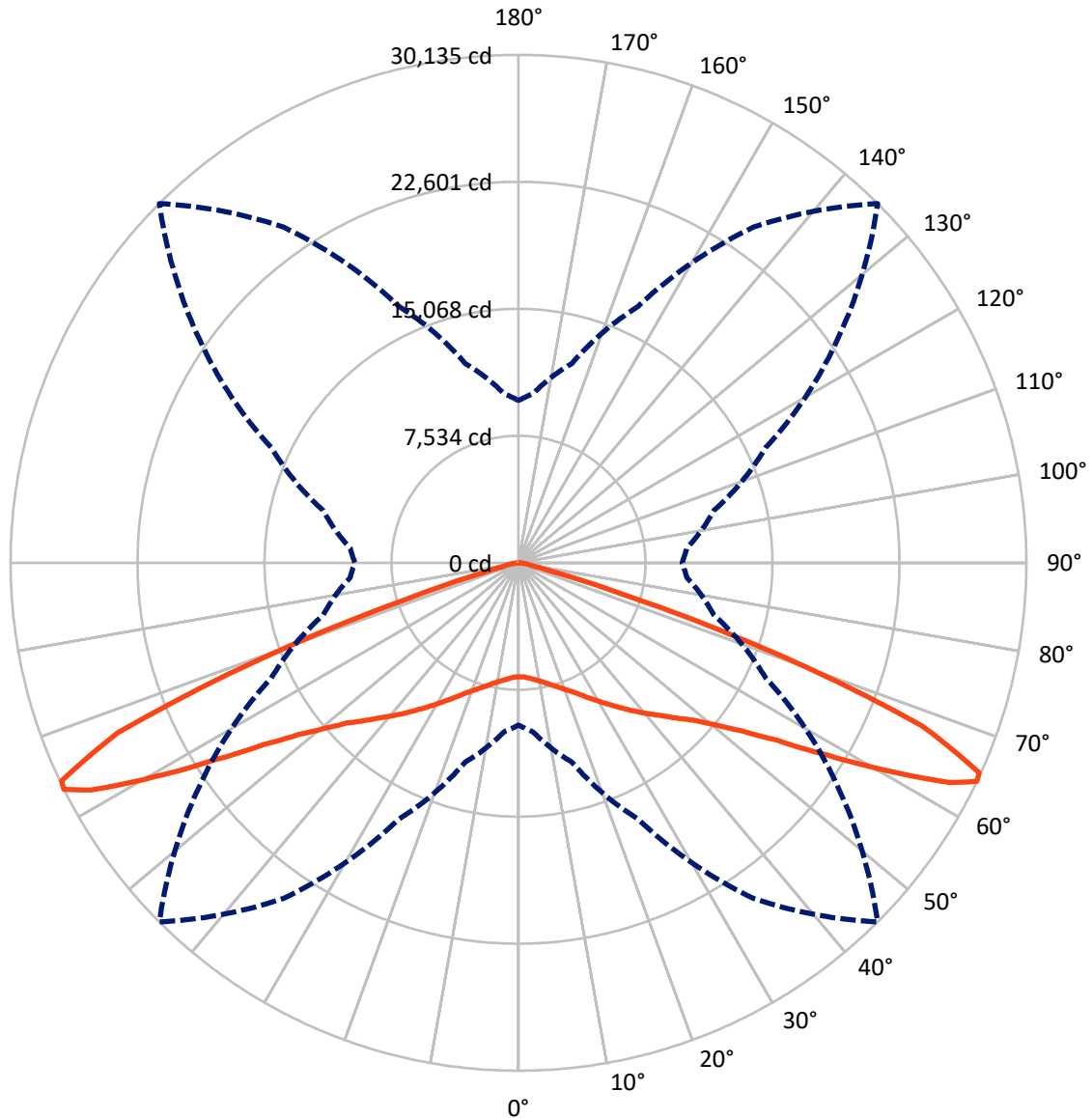
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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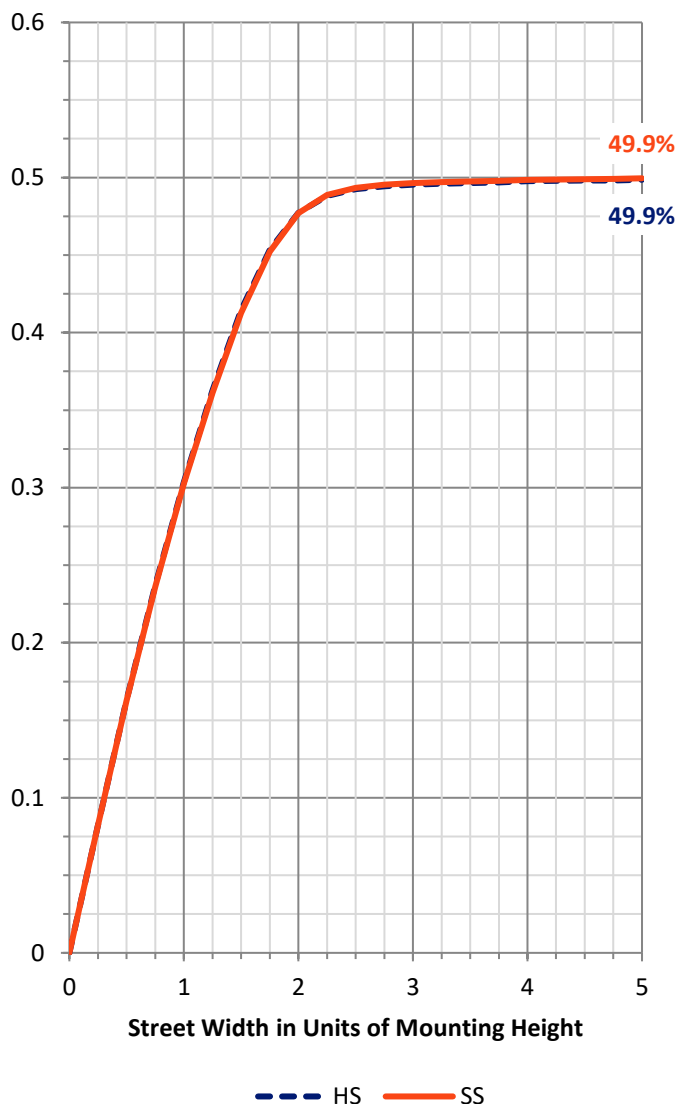
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27969.6	0.0	27969.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27969.6	0.0	27969.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55939.1	0.0	55939.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	664.2	1.2
10°-20°	2142.6	3.8
20°-30°	4048.9	7.2
30°-40°	6705.4	12.0
40°-50°	10468.3	18.7
50°-60°	16183.7	28.9
60°-70°	13955.0	24.9
70°-80°	1581.5	2.8
80°-90°	189.5	0.3
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°	55939.1	100.0
0°-180°	55939.1	100.0

**Coefficient of Utilization**



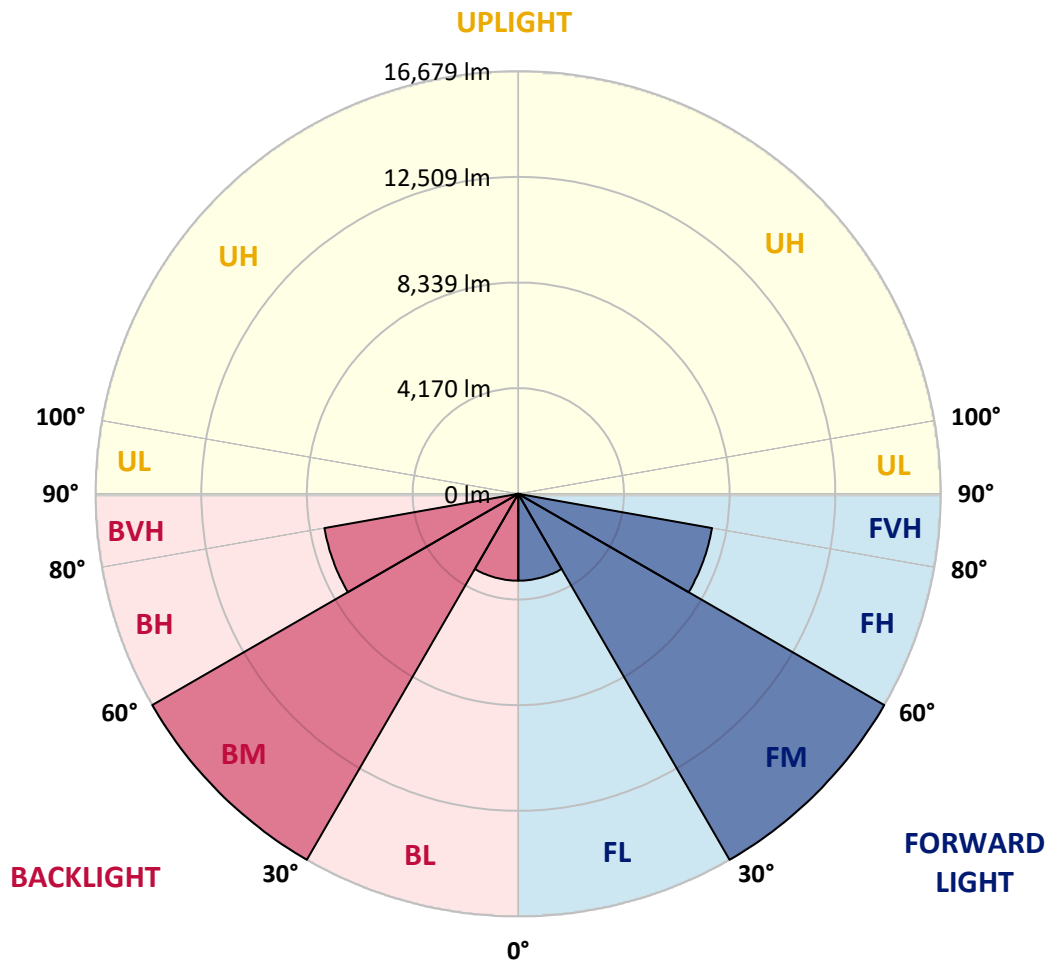
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3427.9	6.1			
FM (30°-60°)	16678.7	29.8			
FH (60°-80°)	7768.2	13.9			G4/12000
FVH (80°-90°)	94.7	0.2			G1/100
BL (0°-30°)	3427.9	6.1	B4/5000		
BM (30°-60°)	16678.7	29.8	B5		
BH (60°-80°)	7768.2	13.9	B5		G4/12000
BVH (80°-90°)	94.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G4**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	6761.2	6761.2	6761.2	6761.2	6761.2	6761.2	6761.2	6761.2	6761.2	6761.2	6761.2
2.5°	6787.9	6802.7	6790.8	6787.9	6784.9	6784.9	6784.9	6787.9	6799.7	6808.6	6802.7
5°	6873.7	6885.6	6879.7	6876.8	6873.7	6876.8	6870.8	6867.9	6876.8	6876.8	6873.7
7.5°	6980.5	6995.3	6989.3	6995.3	6998.2	7001.2	6986.4	6974.5	6971.6	6980.5	6974.5
10°	7125.6	7137.5	7140.4	7143.4	7149.3	7146.3	7128.6	7107.8	7104.9	7101.9	7099.0
12.5°	7288.5	7297.4	7300.4	7312.2	7321.2	7324.1	7303.4	7285.6	7256.0	7261.9	7250.0
15°	7472.3	7490.0	7487.1	7504.8	7528.5	7534.5	7513.7	7484.1	7457.5	7442.6	7433.8
17.5°	7697.4	7709.3	7703.4	7721.1	7750.7	7765.5	7747.8	7709.3	7682.6	7650.1	7632.2
20°	7964.1	7984.8	7990.8	7990.8	8017.4	8032.2	8005.6	7993.7	7952.2	7928.5	7913.7
22.5°	8266.3	8275.2	8292.9	8310.8	8337.4	8331.5	8322.6	8304.8	8266.3	8245.6	8221.9
25°	8607.0	8615.9	8660.4	8698.9	8707.8	8701.8	8690.0	8681.1	8645.6	8598.1	8580.4
27.5°	9004.1	9021.8	9081.1	9116.6	9116.6	9119.6	9095.9	9125.5	9048.5	8992.2	8986.3
30°	9501.8	9513.6	9564.0	9599.6	9581.8	9567.0	9561.1	9590.7	9507.8	9407.0	9383.3
32.5°	9993.6	10035.1	10079.6	10156.6	10094.4	10067.7	10061.8	10082.5	9987.7	9875.1	9842.6
35°	10521.0	10550.7	10633.6	10698.8	10642.5	10580.3	10606.9	10672.1	10559.5	10408.5	10402.5
37.5°	11104.7	11131.4	11238.0	11306.2	11264.7	11158.1	11202.5	11279.5	11166.9	10980.3	10941.7
40°	11712.1	11768.4	11901.7	11972.8	11904.7	11762.5	11845.4	11928.3	11827.7	11611.4	11525.4
42.5°	12393.6	12482.4	12675.0	12710.5	12580.2	12387.6	12532.8	12666.1	12595.0	12346.1	12313.5
45°	13190.5	13243.9	13480.9	13557.9	13377.2	13137.2	13317.9	13560.9	13507.6	13220.2	13157.9
47.5°	14082.4	14132.7	14378.7	14494.2	14266.1	13943.1	14269.0	14586.1	14553.4	14245.3	14215.7
50°	15137.1	15148.9	15489.7	15620.1	15391.9	15113.4	15403.8	15797.8	15667.5	15273.4	15267.5
52.5°	16292.6	16307.4	16737.1	16988.9	16861.5	16547.4	16891.1	17131.1	16799.2	16283.7	16245.2
55°	17294.1	17368.1	17954.8	18624.4	18799.2	18571.0	18674.7	18562.1	17744.4	17021.5	16908.9
57.5°	17702.9	17848.1	18739.9	19990.2	21127.9	21465.7	20665.7	19593.2	18120.7	17098.5	16988.9
60°	16704.4	16861.5	18245.2	20618.4	23521.9	24988.5	22739.7	19768.0	17264.4	15827.5	15655.6
62.5°	13377.2	13421.6	15457.1	19139.9	24917.4	28715.8	23613.8	18277.7	14772.7	12820.2	12752.0
64°	9626.3	10082.5	12239.5	16781.5	24307.1	30135.0	23110.1	16188.9	11999.5	10023.3	9703.3
65°	7199.7	7324.1	9866.2	14331.2	23231.5	30028.3	22132.3	14192.0	9937.3	7670.8	7315.3
67.5°	2719.9	2734.7	3641.4	7143.4	16538.5	25835.9	16891.1	7721.1	4186.5	3028.0	2918.4
70°	1128.9	1149.6	1336.3	2402.8	7107.8	16588.9	8144.8	2785.1	1531.8	1241.4	1223.7
72.5°	826.6	838.5	894.7	1066.6	2186.6	6811.5	2678.4	1182.2	897.8	802.9	794.1
75°	648.8	654.8	696.3	785.2	1019.2	1887.3	1114.0	811.8	684.4	616.3	610.3
77.5°	494.8	509.6	539.2	598.5	684.4	894.7	737.7	607.4	527.4	471.1	462.2
80°	340.7	358.5	414.8	438.5	459.3	580.7	503.7	459.3	411.8	343.7	322.9
82.5°	210.3	222.2	278.5	299.2	290.4	325.9	322.9	328.9	293.3	213.4	198.5
85°	109.7	115.6	151.1	157.0	145.2	133.3	165.9	192.6	180.7	121.4	118.5
87.5°	23.7	26.7	32.6	29.6	32.6	32.6	41.5	62.2	65.2	41.5	38.5
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)