

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: P651107

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651107  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
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-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 48279.3 lumens  
Efficiency: N/A  
Efficacy: 100.4 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

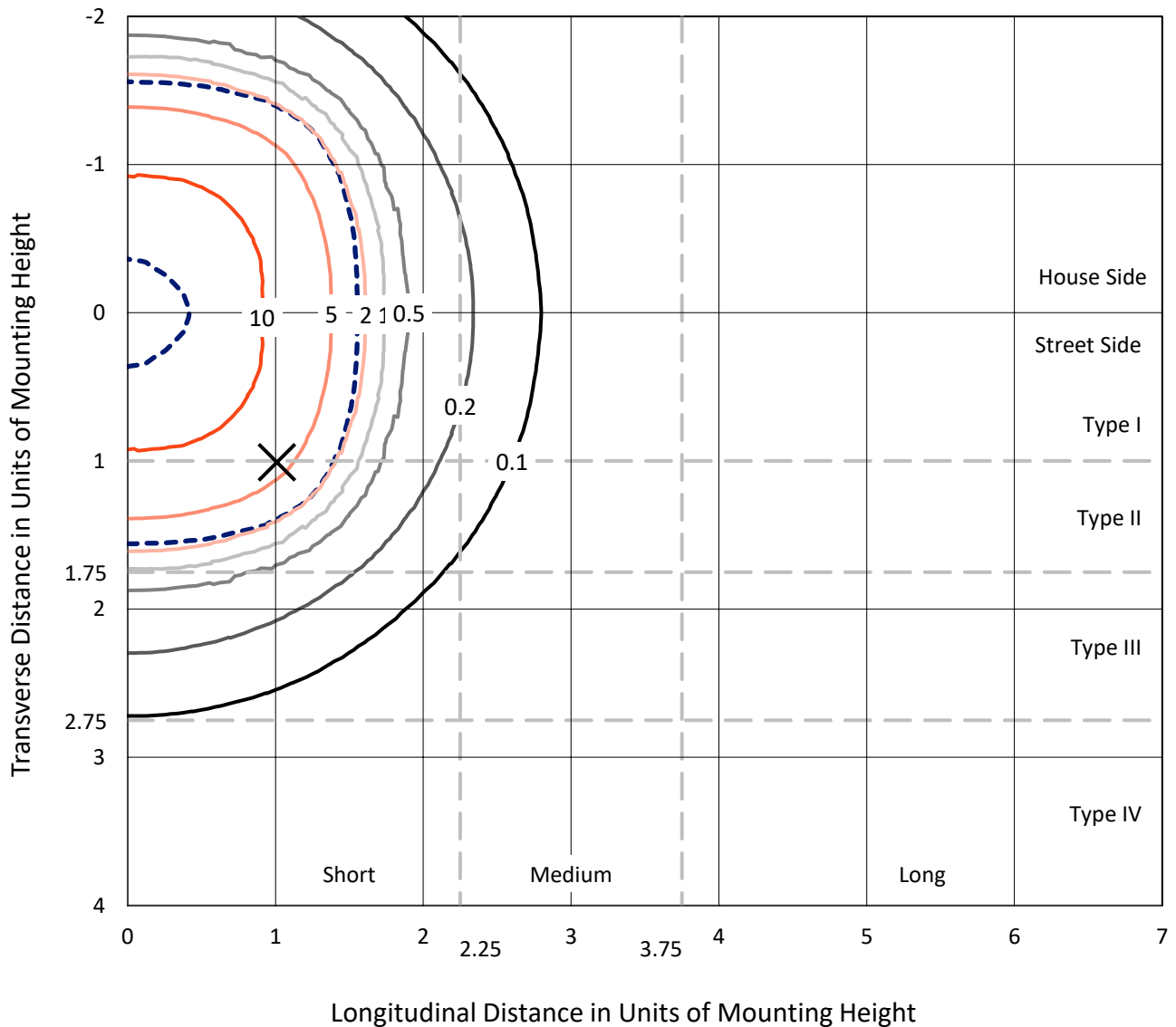
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

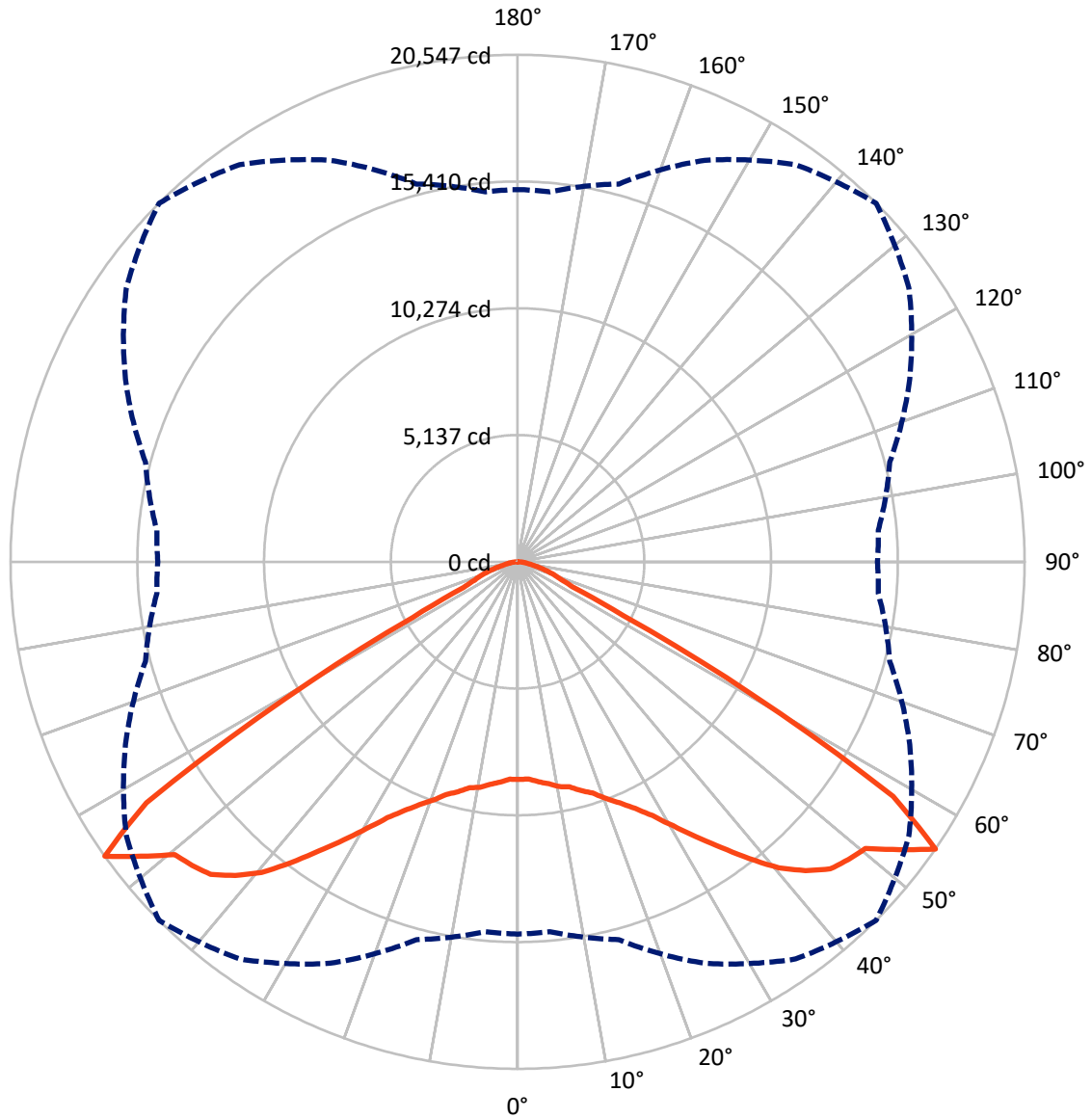
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.2 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24139.6	0.0	24139.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24139.6	0.0	24139.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	48279.3	0.0	48279.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	861.1	1.8
10°-20°	2728.6	5.7
20°-30°	5087.9	10.5
30°-40°	8518.8	17.6
40°-50°	13255.9	27.5
50°-60°	13763.8	28.5
60°-70°	2918.8	6.0
70°-80°	961.3	2.0
80°-90°	183.1	0.4
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°	48279.3	100.0
0°-180°	48279.3	100.0

**Coefficient of Utilization**

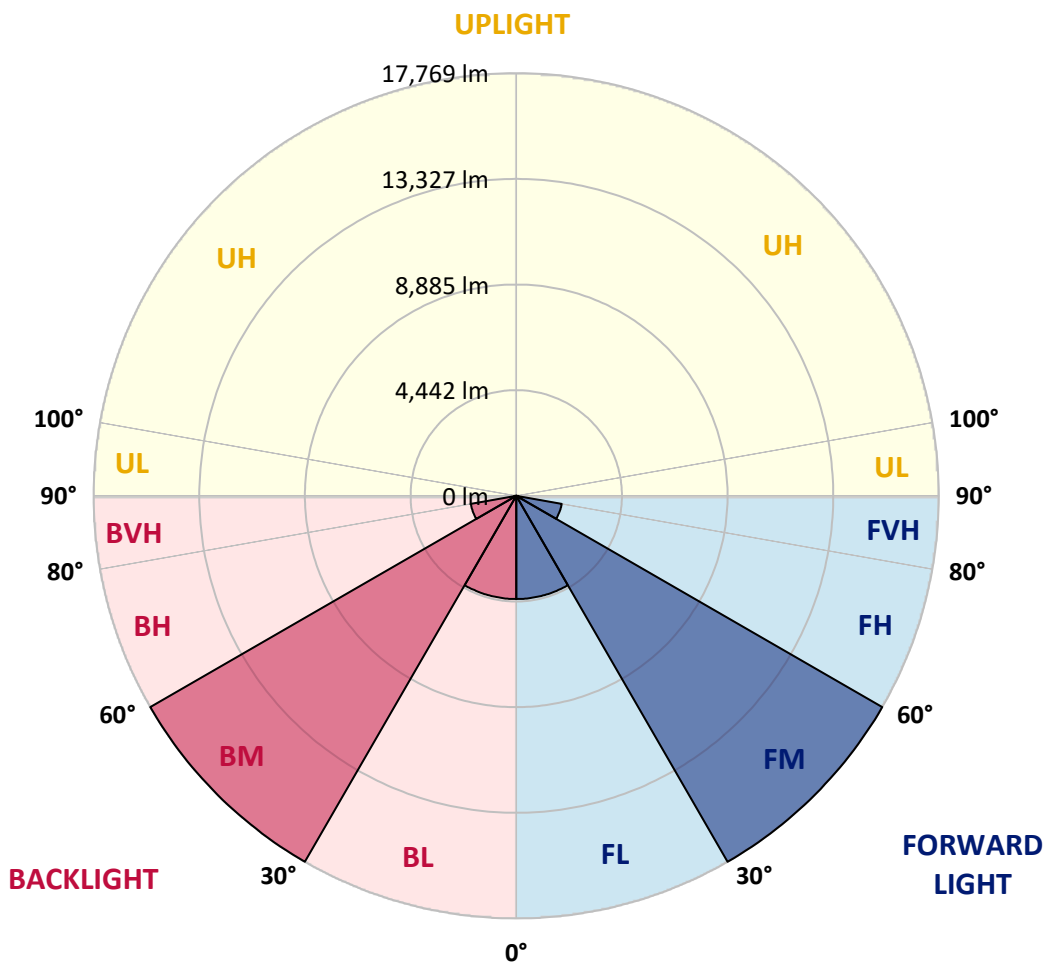


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4338.8	9.0			
FM (30°-60°)	17769.3	36.8			
FH (60°-80°)	1940.1	4.0			G2/5000
FVH (80°-90°)	91.5	0.2			G1/100
BL (0°-30°)	4338.8	9.0	B4/5000		
BM (30°-60°)	17769.3	36.8	B5		
BH (60°-80°)	1940.1	4.0	B3/2500		G2/5000
BVH (80°-90°)	91.5	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-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8815.1	8815.1	8815.1	8815.1	8815.1	8815.1	8815.1	8815.1	8815.1	8815.1	8815.1
2.5°	8920.1	8879.3	8809.2	8861.8	8902.6	8815.1	8850.1	8867.6	8855.9	8809.2	8826.7
5°	9048.4	9025.1	8966.7	9007.6	8955.1	8955.1	8920.1	8873.4	8943.4	8931.8	8960.9
7.5°	9048.4	9019.3	9136.0	9060.1	9083.5	9083.5	9025.1	8978.4	9013.4	8960.9	8931.8
10°	9229.3	9270.1	9217.6	9235.1	9223.4	9264.3	9176.7	9147.6	9118.5	9101.0	9065.9
12.5°	9445.1	9416.0	9433.5	9421.8	9462.7	9357.6	9305.2	9241.0	9293.5	9217.6	9270.1
15°	9620.2	9602.6	9620.2	9666.8	9626.0	9620.2	9526.8	9462.7	9380.9	9398.5	9316.8
17.5°	9859.4	9841.9	9847.7	9888.6	9882.7	9853.5	9783.5	9661.0	9631.8	9585.1	9532.7
20°	10215.2	10186.0	10174.4	10191.9	10221.1	10244.4	10104.4	10057.7	9958.5	9882.7	9795.2
22.5°	10518.6	10506.9	10553.6	10477.8	10541.9	10611.9	10477.8	10454.4	10209.4	10168.5	10075.2
25°	10938.6	10921.1	10892.0	11002.8	11078.7	11072.8	10944.4	10816.1	10629.4	10582.7	10582.7
27.5°	11382.0	11282.9	11434.5	11463.7	11597.9	11638.7	11527.8	11341.1	11166.1	11067.0	11090.4
30°	11936.2	11842.9	11877.9	12087.9	12263.0	12414.6	12134.6	11860.4	11615.4	11440.4	11411.2
32.5°	12490.4	12397.1	12502.1	12706.3	13056.4	13283.8	13009.7	12531.3	12245.5	11988.7	12041.3
35°	12939.7	13009.7	13178.9	13488.0	13849.8	14217.3	13779.8	13412.2	13003.9	12718.0	12758.8
37.5°	13663.1	13878.9	14013.1	14369.0	14882.3	15261.5	14806.6	14328.1	13890.6	13517.2	13388.9
40°	14608.2	14754.0	14905.7	15325.7	15932.5	16311.7	15880.0	15255.7	14824.1	14439.0	14421.5
42.5°	15646.6	15786.7	15944.2	16457.5	16819.2	17105.1	16708.4	16375.9	15897.5	15594.1	15576.6
45°	16854.2	16755.1	16930.1	17268.4	17571.9	17758.5	17501.8	17338.5	16994.3	16714.2	16685.0
47.5°	17659.3	17571.9	17886.8	18190.2	18236.9	18032.7	18085.2	18236.9	17875.2	17414.3	17560.2
50°	18126.1	18126.1	18336.1	18616.1	18528.6	18266.0	18680.3	18691.9	18330.3	17921.9	17921.9
52.5°	17315.1	17496.0	18091.0	19006.9	19298.7	19374.5	19281.2	18884.5	17939.4	17105.1	17064.2
55°	15086.5	15045.7	15850.8	17951.1	19648.7	20547.1	19357.0	17531.0	15611.7	14672.3	14579.0
57.5°	9812.7	9859.4	11061.2	13202.2	16265.0	17939.4	15932.5	13365.5	11061.2	9766.0	9888.6
60°	4416.3	4573.8	5303.0	6901.6	9532.7	10897.8	9555.9	7251.6	5565.6	4830.5	4894.7
62.5°	2537.8	2566.9	2596.1	3080.3	4060.4	4801.4	4218.0	3255.3	2870.3	2741.9	2741.9
65°	2141.0	2123.5	2129.4	2170.2	2275.2	2427.0	2362.7	2275.2	2286.9	2275.2	2257.7
67.5°	1820.2	1843.6	1826.1	1855.2	1861.0	1884.3	1925.2	1960.2	1966.0	1977.7	1966.0
70°	1493.4	1499.3	1511.0	1534.3	1540.1	1557.7	1616.0	1645.2	1662.7	1662.7	1686.0
72.5°	1143.4	1137.6	1149.3	1172.6	1201.8	1207.6	1260.2	1300.9	1324.3	1295.1	1300.9
75°	752.6	758.4	775.9	793.4	834.3	875.1	892.6	933.4	939.2	950.9	921.7
77.5°	449.2	460.9	478.4	513.3	548.4	583.4	624.2	653.4	665.1	653.4	618.4
80°	291.7	291.7	315.0	344.2	385.0	414.2	437.6	460.9	478.4	460.9	449.2
82.5°	180.8	180.8	210.0	245.0	274.2	291.7	326.7	355.9	373.4	361.7	344.2
85°	93.4	99.2	122.5	151.7	175.0	186.7	180.8	163.3	145.8	140.0	128.3
87.5°	29.2	29.2	35.0	35.0	29.2	29.2	35.0	29.2	35.0	35.0	35.0
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)