

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: P651117

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

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651117  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
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-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46966.5 lumens  
Efficiency: N/A  
Efficacy: 97.6 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

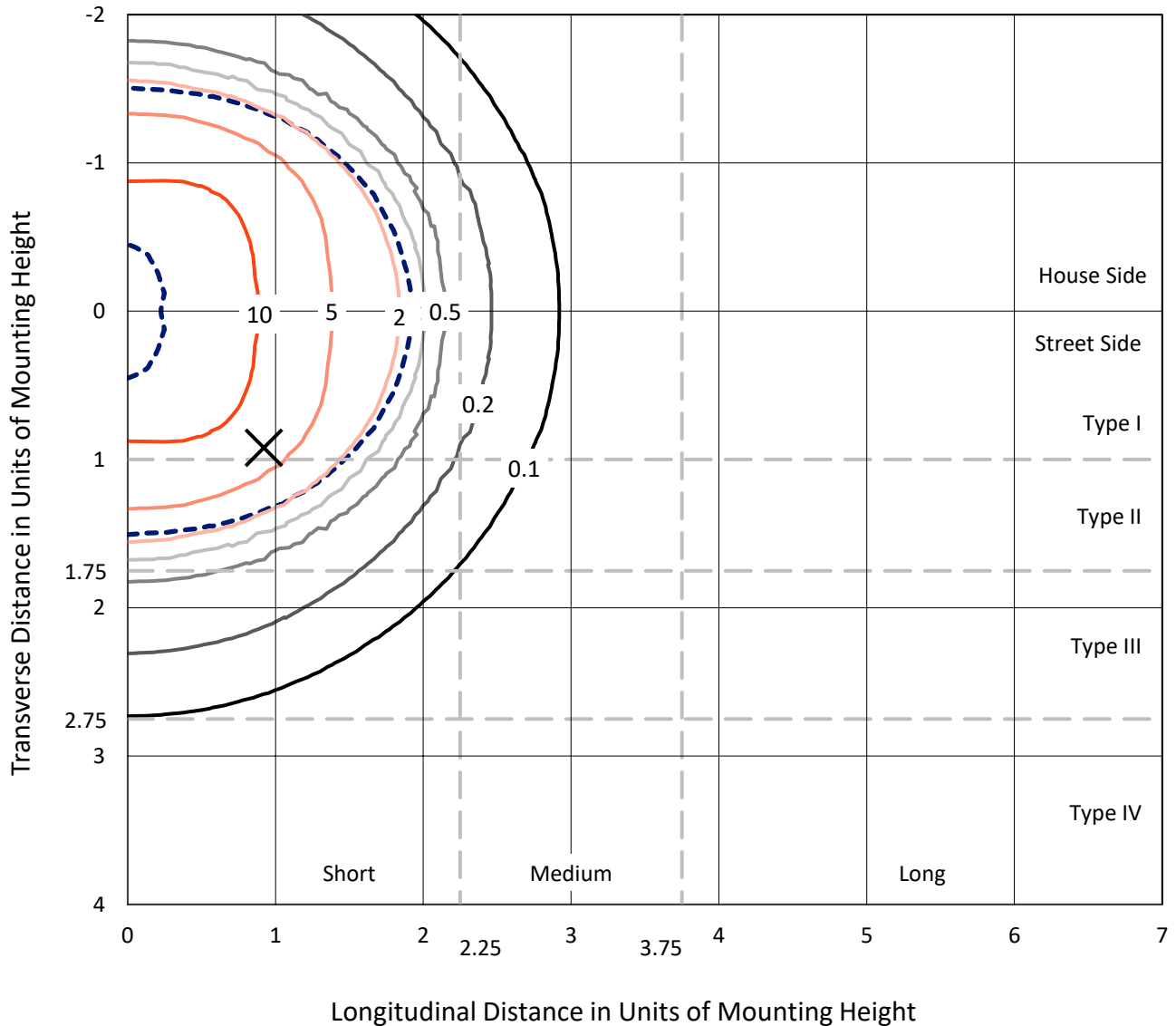
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

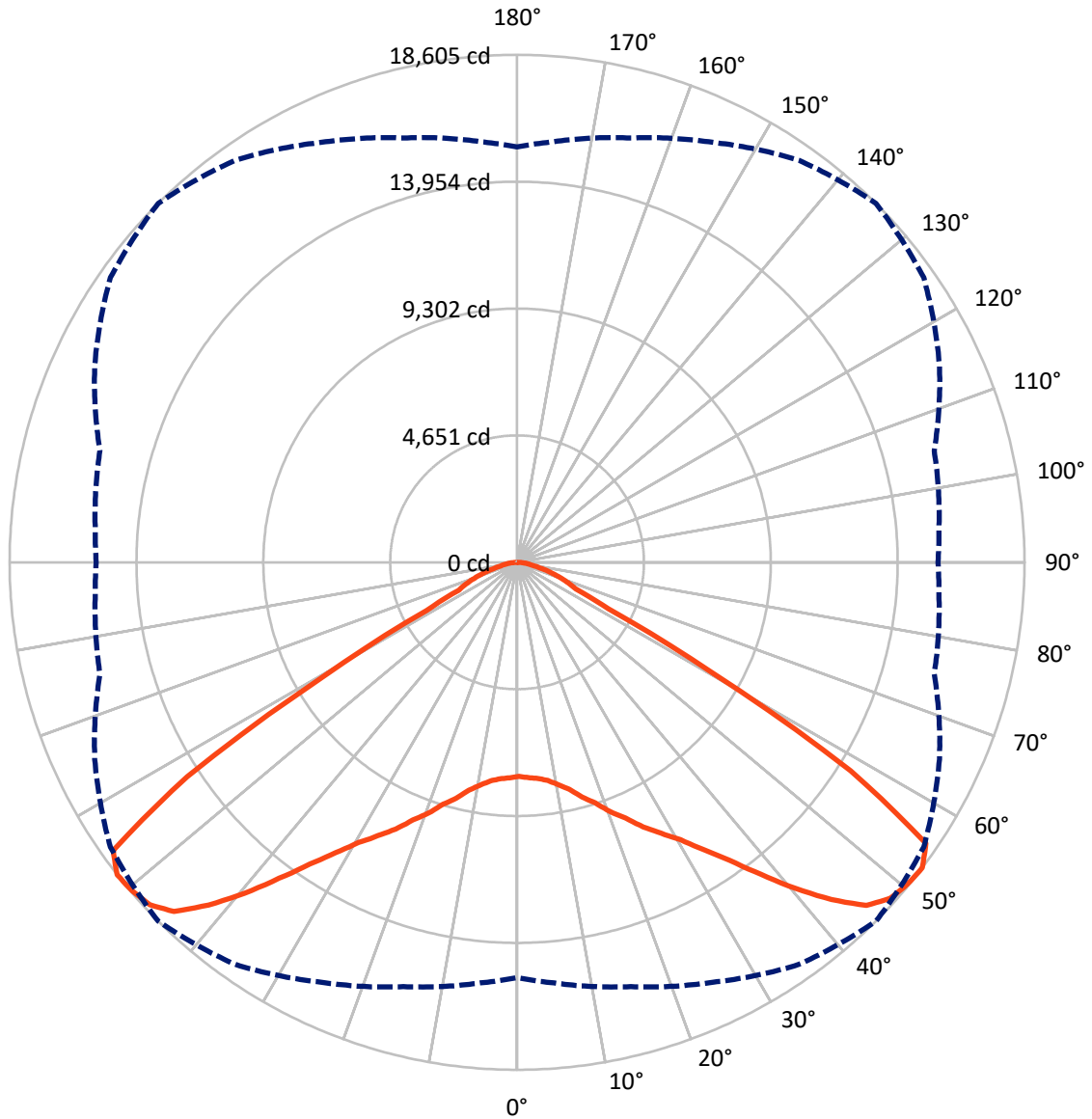
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	23483.2	0.0	23483.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	23483.2	0.0	23483.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	46966.5	0.0	46966.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	771.3	1.6
10°-20°	2534.6	5.4
20°-30°	4825.5	10.3
30°-40°	8285.7	17.6
40°-50°	12735.4	27.1
50°-60°	12932.5	27.5
60°-70°	3604.1	7.7
70°-80°	1063.2	2.3
80°-90°	214.1	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°	46966.5	100.0
0°-180°	46966.5	100.0

**Coefficient of Utilization**



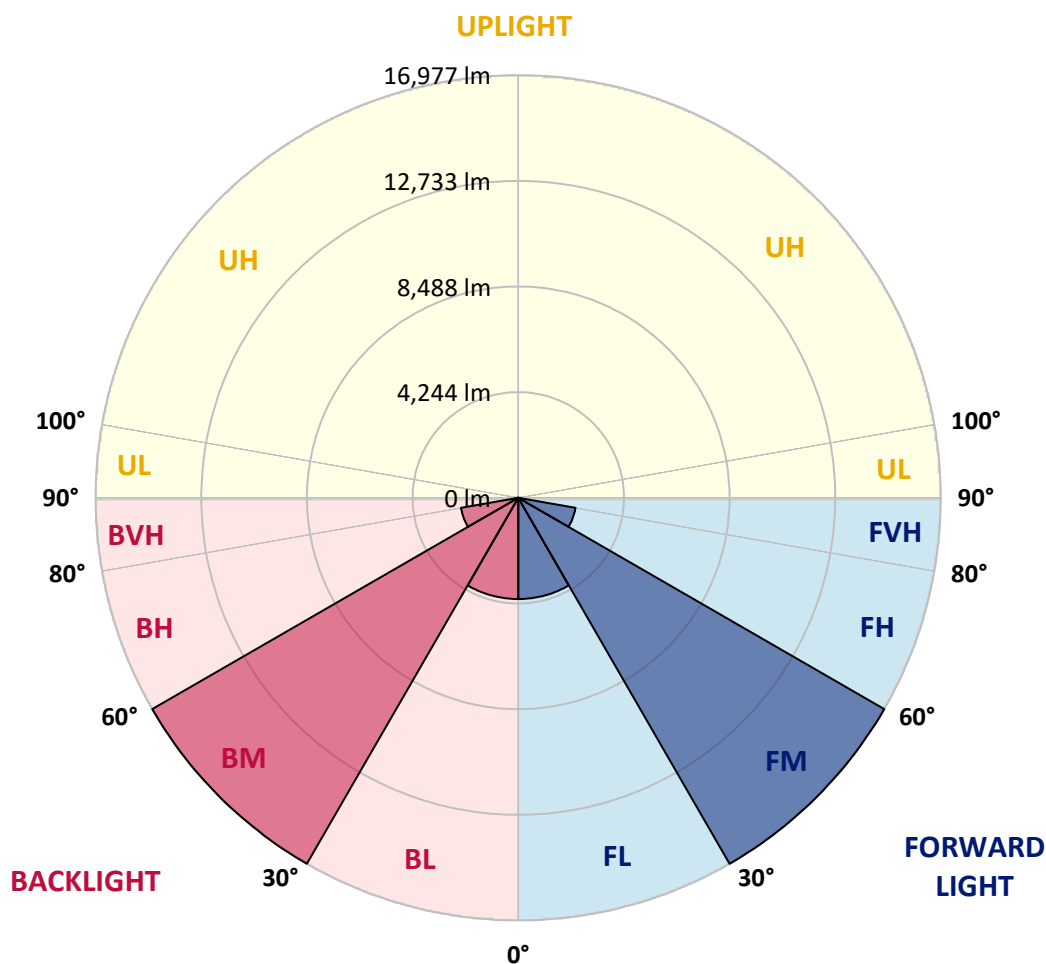
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4065.7	8.7			
FM (30°-60°)	16976.8	36.1			
FH (60°-80°)	2333.7	5.0			G2/5000
FVH (80°-90°)	107.1	0.2			G2/225
BL (0°-30°)	4065.7	8.7	B4/5000		
BM (30°-60°)	16976.8	36.1	B5		
BH (60°-80°)	2333.7	5.0	B3/2500		G2/5000
BVH (80°-90°)	107.1	0.2			G2/225
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°	7851.1	7851.1	7851.1	7851.1	7851.1	7851.1	7851.1	7851.1	7851.1	7851.1	7851.1
2.5°	7868.6	7787.0	7816.1	7833.6	7909.4	7903.5	7886.1	7909.4	7932.6	7938.5	7926.8
5°	7862.8	7804.5	7827.8	7845.3	7921.0	7961.8	7950.1	8049.2	8119.2	8101.7	8189.2
7.5°	7816.1	7851.1	7821.9	7909.4	7973.4	8072.6	8177.5	8270.7	8358.1	8457.3	8474.8
10°	7921.0	7921.0	7973.4	8043.4	8212.4	8288.2	8439.8	8573.8	8742.9	8859.4	8812.8
12.5°	8031.7	8049.2	8049.2	8229.9	8369.8	8538.8	8678.7	8859.4	9098.4	9238.3	9308.2
15°	8142.5	8154.2	8212.4	8457.3	8667.1	8935.2	9063.4	9226.6	9360.7	9623.0	9628.8
17.5°	8241.5	8305.7	8480.6	8754.5	9016.8	9273.2	9477.2	9646.3	9762.8	9867.8	9844.4
20°	8614.6	8661.2	8841.9	9115.9	9506.4	9757.0	9826.9	9856.1	9931.9	10141.7	10077.5
22.5°	8976.0	8993.5	9162.5	9582.2	9856.1	10188.3	10264.1	10246.6	10275.8	10328.2	10421.4
25°	9349.0	9378.2	9611.3	9966.9	10351.5	10747.9	10812.0	10677.9	10637.1	10695.4	10701.2
27.5°	9826.9	9832.8	10130.0	10438.9	10876.1	11249.1	11348.2	11243.3	11050.9	11097.6	11173.4
30°	10433.1	10392.3	10689.6	11132.6	11593.0	11802.8	11971.9	11919.4	11709.6	11668.8	11604.6
32.5°	11132.6	11144.2	11412.3	11896.1	12199.2	12548.9	12729.5	12642.2	12508.1	12438.1	12478.9
35°	12117.5	12170.0	12350.7	12752.9	13242.5	13417.3	13702.9	13516.4	13166.7	13254.2	13329.9
37.5°	12927.8	13079.3	13417.3	13895.3	14186.7	14507.2	14612.2	14361.6	14105.1	14000.2	14250.8
40°	14169.3	14122.6	14495.6	14973.6	15404.8	15725.4	15591.4	15340.8	14705.5	14711.3	14781.2
42.5°	15235.8	15259.2	15544.8	16116.0	16704.6	16902.8	16477.3	15865.3	15160.1	15084.3	15235.8
45°	16133.4	16226.7	16389.9	17153.5	17730.5	17946.1	17159.3	16436.5	15492.3	15177.5	15428.2
47.5°	16454.0	16605.5	16961.1	17660.5	18231.7	18406.5	17777.1	16739.6	15801.2	15288.3	15422.3
50°	16500.7	16448.2	17031.0	17672.2	18173.4	18552.3	17998.6	16961.1	15725.4	15457.3	15416.5
52.5°	15224.2	15480.6	16104.3	16984.4	17998.6	18604.8	18196.7	17083.5	15830.4	15527.3	15428.2
55°	12321.6	12018.5	13155.1	14635.5	16500.7	18185.1	18126.8	17147.7	15894.5	15643.9	15509.8
57.5°	6877.7	6965.2	7606.3	9214.9	11622.1	14419.9	16116.0	16471.5	15865.3	15719.6	15789.5
60°	3182.4	3211.5	3485.4	4237.4	5729.5	8177.5	10409.8	12677.1	13720.4	13930.2	13930.2
62.5°	2372.2	2360.6	2430.5	2564.5	2879.3	3759.4	5018.4	6819.4	8253.2	9255.7	9518.0
65°	2144.9	2139.1	2174.1	2220.7	2244.0	2366.4	2646.2	3199.8	3666.2	3934.3	3887.6
67.5°	1876.8	1871.0	1882.7	1911.8	1952.5	2016.7	2086.6	2203.2	2366.4	2354.7	2325.6
70°	1515.4	1515.4	1532.9	1556.2	1602.9	1678.6	1760.2	1841.8	1981.7	2010.8	2005.0
72.5°	1119.1	1101.6	1136.5	1183.2	1229.8	1323.1	1410.5	1486.3	1585.4	1614.6	1602.9
75°	711.1	722.8	746.1	798.5	880.1	944.2	1037.5	1101.6	1165.7	1189.0	1194.9
77.5°	396.4	408.0	448.8	512.9	594.5	664.5	746.1	798.5	839.3	845.1	851.0
80°	239.0	244.8	285.6	343.9	413.9	489.6	553.7	606.2	641.2	623.7	617.8
82.5°	145.7	151.5	186.5	239.0	297.3	355.6	425.5	472.1	507.1	483.7	460.4
85°	75.8	81.6	110.8	145.7	192.3	221.5	221.5	198.1	192.3	180.6	174.8
87.5°	23.3	23.3	29.2	35.0	29.2	35.0	40.8	46.6	46.6	52.5	46.6
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)