

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: P534001

Luminaire Tested: **GALN-SA9C-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534001
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-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 34447 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

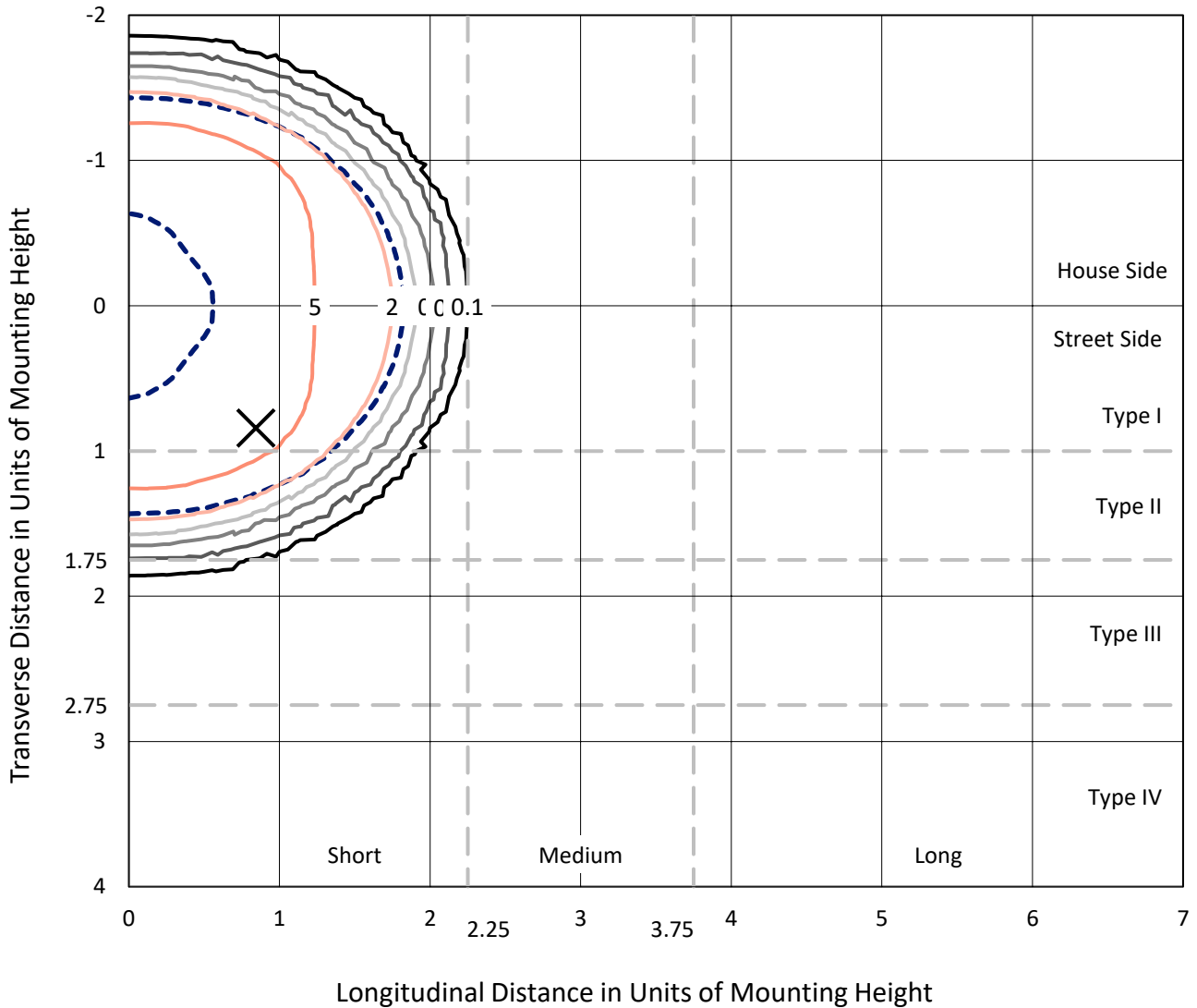
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

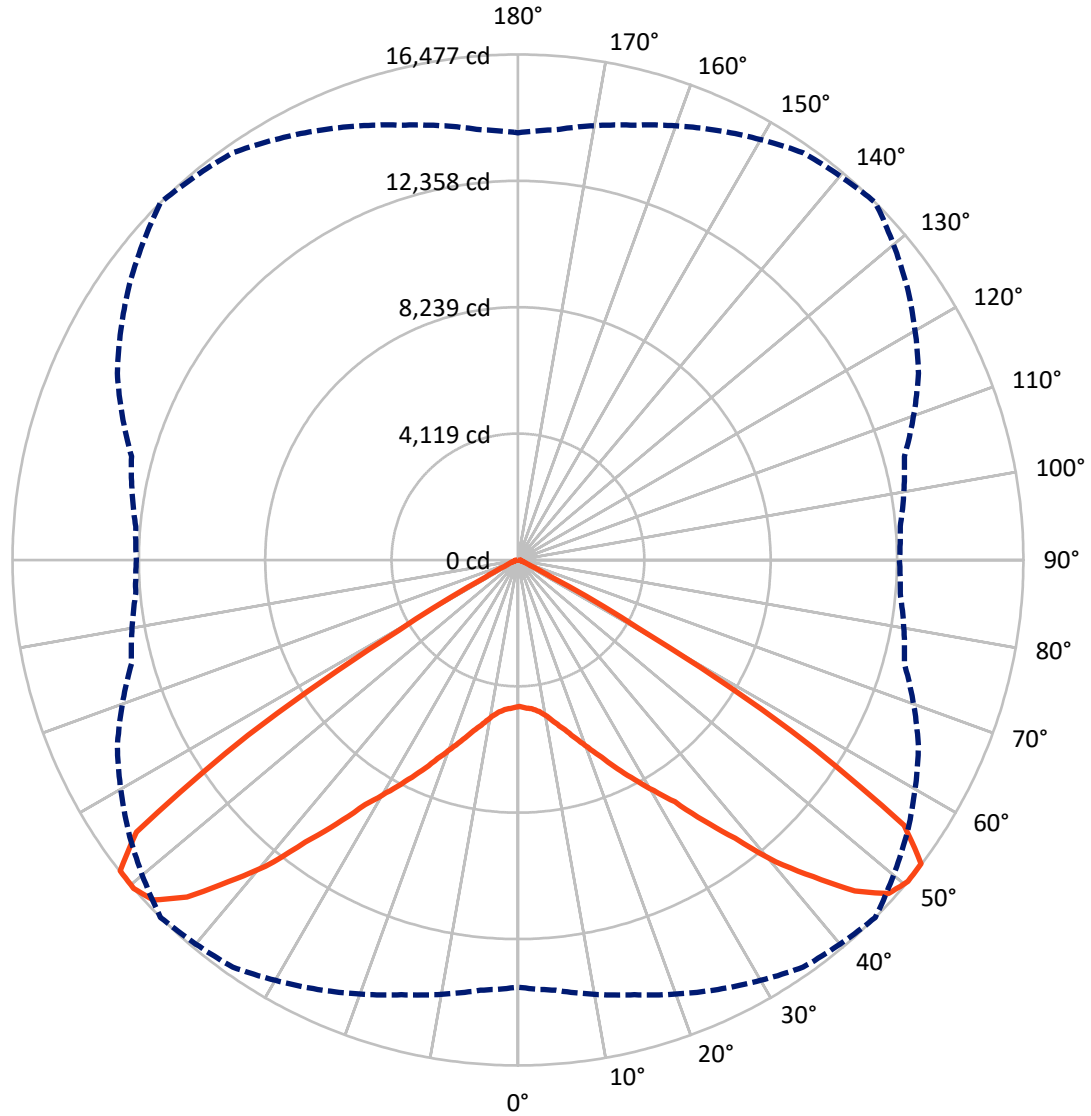
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	17223.5	0.0	17223.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17223.5	0.0	17223.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	34447.0	0.0	34447.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	1.4
10°-20°	1637.5	4.8
20°-30°	3344.4	9.7
30°-40°	6377.8	18.5
40°-50°	10747.5	31.2
50°-60°	10249.7	29.8
60°-70°	1430.8	4.2
70°-80°	136.8	0.4
80°-90°	47.3	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°	34447.0	100.0
0°-180°	34447.0	100.0

Coefficient of Utilization



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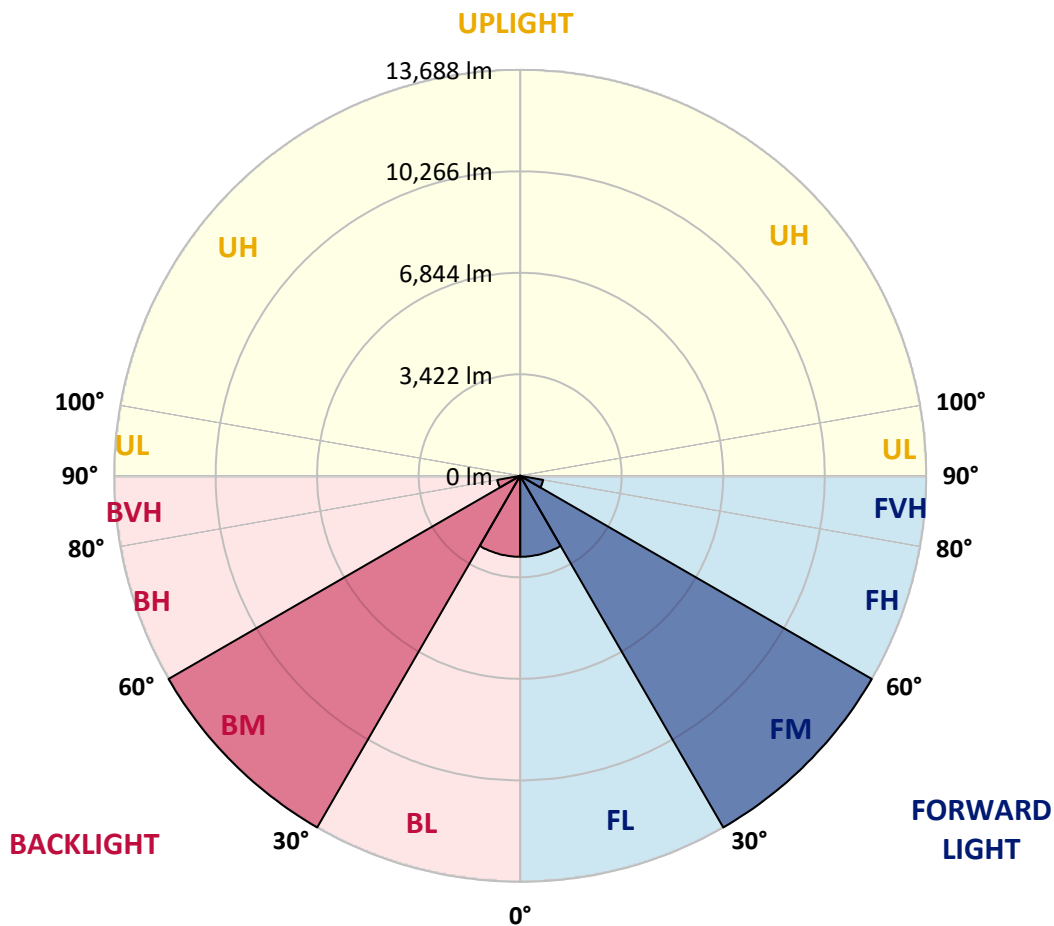
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.5	7.9			
FM (30°-60°)	13687.5	39.7			
FH (60°-80°)	783.8	2.3			G1/1800
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	2728.5	7.9	B4/5000		
BM (30°-60°)	13687.5	39.7	B5		
BH (60°-80°)	783.8	2.3	B2/1000		G1/1800
BVH (80°-90°)	23.6	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°	4775.7	4775.7	4775.7	4775.7	4775.7	4775.7	4775.7	4775.7	4775.7	4775.7	4775.7
2.5°	4758.3	4758.3	4752.5	4798.9	4775.7	4827.9	4822.1	4839.5	4856.8	4851.0	4897.4
5°	4717.7	4711.9	4711.9	4764.1	4816.3	4874.2	4926.4	4961.2	5019.1	5019.1	5077.1
7.5°	4758.3	4729.3	4769.9	4793.1	4891.6	4990.1	5077.1	5146.6	5279.9	5326.3	5308.9
10°	4769.9	4804.7	4833.7	4903.2	5024.9	5175.6	5250.9	5424.8	5575.5	5679.8	5703.0
12.5°	4845.2	4897.4	4978.5	5146.6	5256.7	5453.8	5558.1	5726.2	5934.8	6050.8	6131.9
15°	4990.1	5007.5	5111.9	5326.3	5563.9	5743.6	5905.9	6027.6	6230.4	6363.7	6369.5
17.5°	5175.6	5250.9	5395.8	5598.7	5847.9	6114.5	6242.0	6375.3	6450.7	6630.3	6670.9
20°	5546.5	5558.1	5697.2	5963.8	6276.8	6520.2	6613.0	6682.5	6653.5	6839.0	6873.8
22.5°	5894.3	5905.9	6079.7	6439.1	6775.2	6983.9	7024.4	6983.9	6896.9	7030.2	7041.8
25°	6247.8	6352.1	6479.6	6839.0	7256.3	7534.5	7540.3	7430.2	7250.5	7273.7	7331.6
27.5°	6798.4	6873.8	7007.1	7337.4	7795.3	8108.3	8056.1	7922.8	7691.0	7708.3	7691.0
30°	7441.7	7511.3	7621.4	8044.5	8380.7	8722.6	8797.9	8670.4	8322.7	8247.4	8334.3
32.5°	8218.4	8316.9	8519.8	8908.1	9192.1	9400.7	9452.9	9406.5	9081.9	9053.0	9110.9
35°	9163.1	9296.4	9481.8	9823.8	10055.6	10432.3	10432.3	10275.9	9980.3	10015.1	10009.3
37.5°	10159.9	10357.0	10646.8	10994.5	11307.5	11510.4	11446.6	11313.3	11017.7	10942.4	11017.7
40°	11411.8	11510.4	11875.5	12327.6	12710.1	12941.9	12669.5	12379.7	11672.6	11782.8	11985.6
42.5°	12553.6	12710.1	12988.3	13486.7	13921.4	14112.7	13788.1	13214.3	12362.3	12275.4	12426.1
45°	13527.3	13695.4	14060.5	14773.4	15231.2	15399.3	14680.6	13753.3	12779.6	12559.4	12623.1
47.5°	14176.4	14263.3	14773.4	15451.5	15868.8	16251.3	15219.6	14124.2	12976.7	12559.4	12536.2
50°	13927.2	14077.9	14674.8	15445.7	16204.9	16477.3	15492.0	14408.2	13040.4	12507.2	12437.7
52.5°	12368.1	12628.9	13295.4	14332.9	15480.4	16454.1	15868.8	14315.5	13017.3	12559.4	12663.7
55°	8606.7	8612.5	9423.9	10954.0	12982.5	15277.6	15318.2	14419.8	13167.9	12884.0	12889.7
57.5°	3460.1	3633.9	4254.1	5790.0	7662.0	10490.3	12472.5	13376.6	13185.3	13115.8	13295.4
60°	875.2	881.0	1072.2	1634.4	2695.0	4497.5	6531.8	8838.5	10177.3	10635.2	10699.0
62.5°	446.3	452.1	498.4	579.6	736.1	1205.5	2144.4	3402.1	4839.5	5569.7	5761.0
65°	365.1	365.1	394.1	434.7	440.5	463.7	556.4	794.0	1153.4	1309.8	1327.2
67.5°	278.2	278.2	301.4	324.6	336.2	330.4	318.8	330.4	399.9	382.5	370.9
70°	173.9	179.7	191.3	214.4	226.0	231.8	237.6	249.2	284.0	295.6	284.0
72.5°	104.3	104.3	110.1	127.5	144.9	156.5	173.9	185.5	202.9	231.8	226.0
75°	46.4	46.4	58.0	75.3	92.7	110.1	127.5	144.9	156.5	173.9	179.7
77.5°	11.6	17.4	29.0	52.2	69.5	92.7	115.9	133.3	144.9	144.9	139.1
80°	5.8	5.8	23.2	40.6	75.3	98.5	127.5	139.1	156.5	144.9	127.5
82.5°	5.8	5.8	23.2	40.6	69.5	98.5	133.3	150.7	162.3	144.9	121.7
85°	0.0	5.8	17.4	34.8	58.0	69.5	58.0	40.6	23.2	23.2	17.4
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)