

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: P534072

Luminaire Tested: **GALN-SA9C-740-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534072
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56256 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

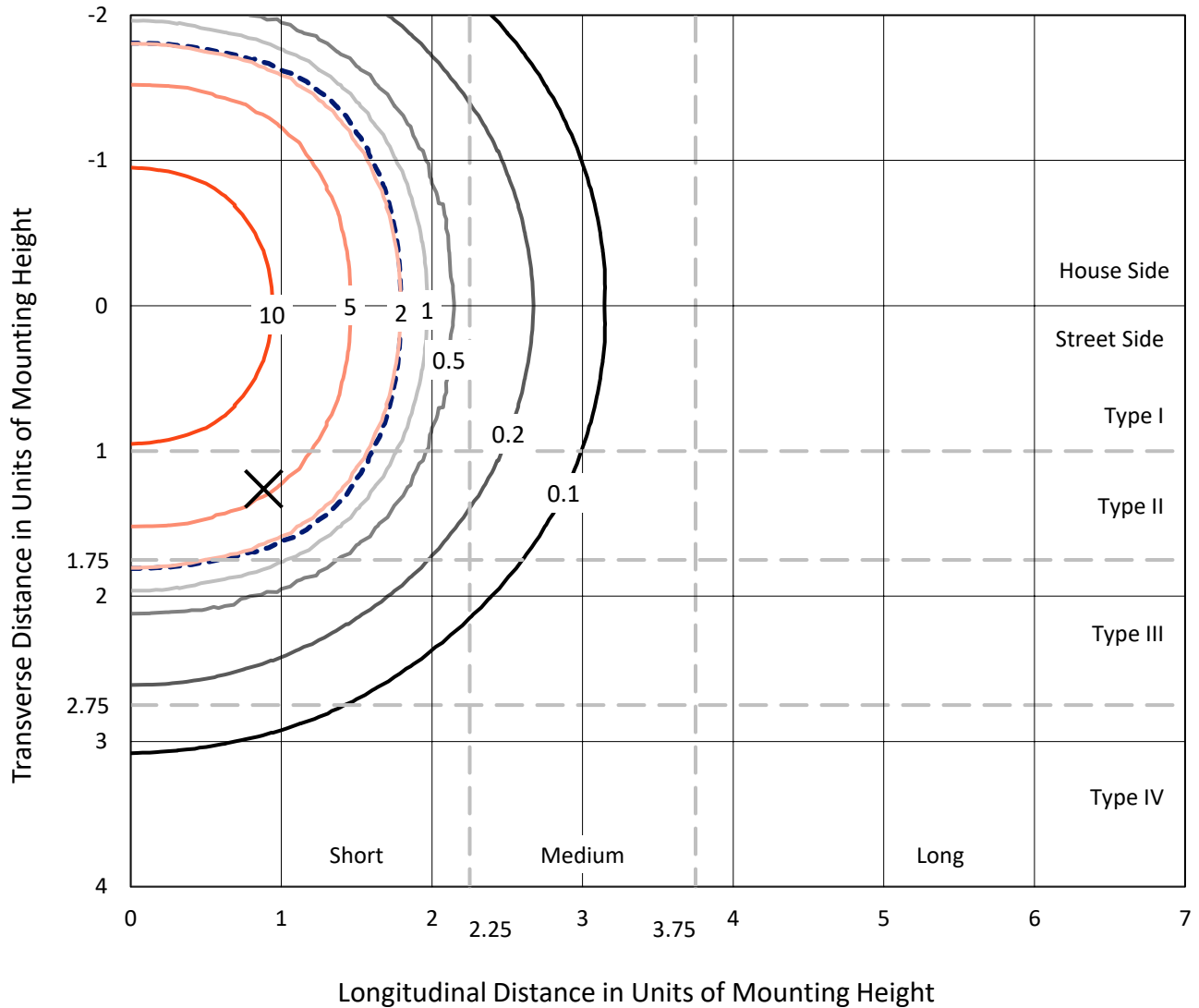
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

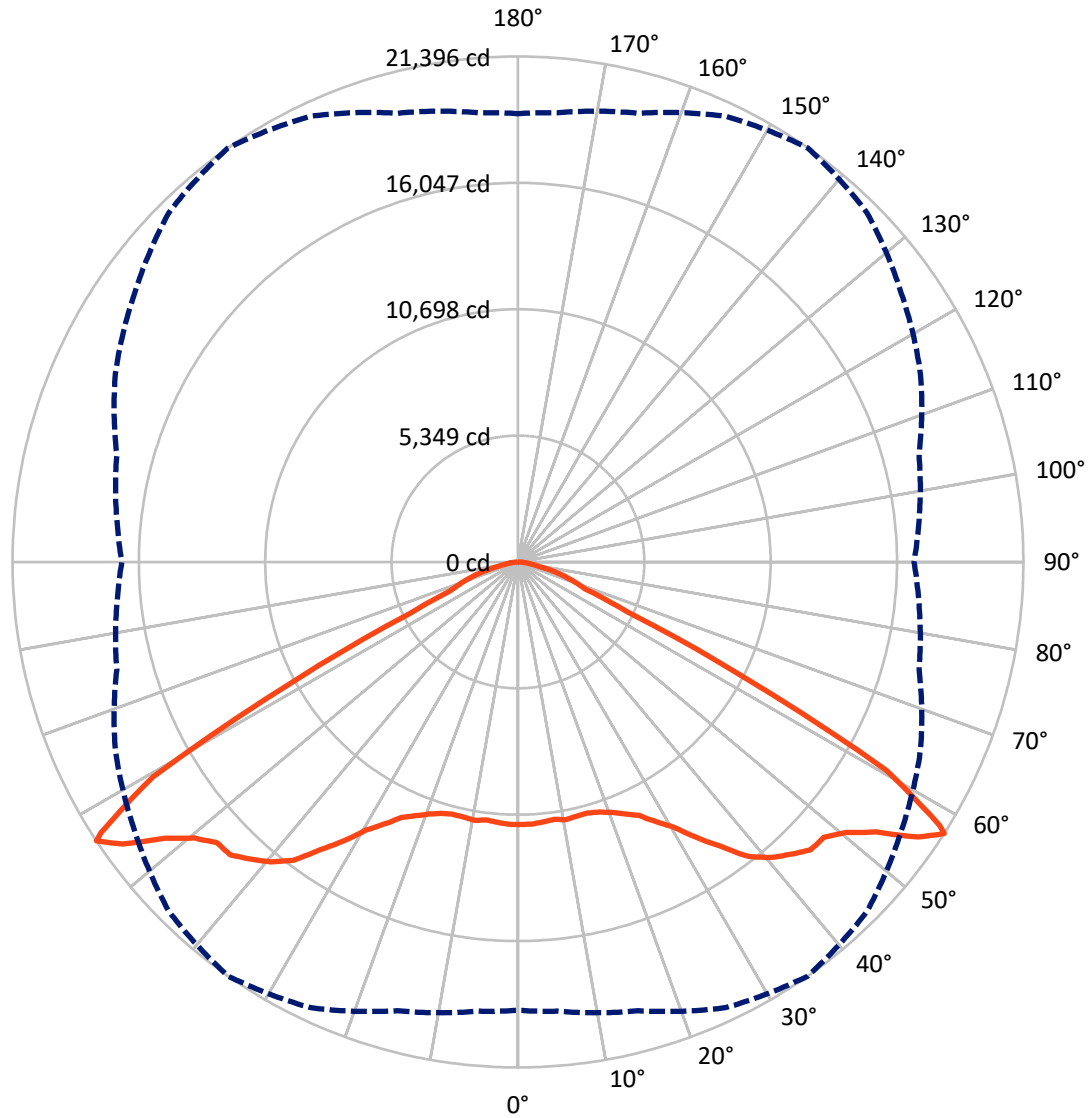
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	28128.0	0.0	28128.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	28128.0	0.0	28128.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	56256.0	0.0	56256.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.3	1.9
10°-20°	3119.5	5.5
20°-30°	5448.2	9.7
30°-40°	8927.0	15.9
40°-50°	13089.2	23.3
50°-60°	16486.8	29.3
60°-70°	6200.5	11.0
70°-80°	1648.7	2.9
80°-90°	282.7	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°	56256.0	100.0
0°-180°	56256.0	100.0

Coefficient of Utilization



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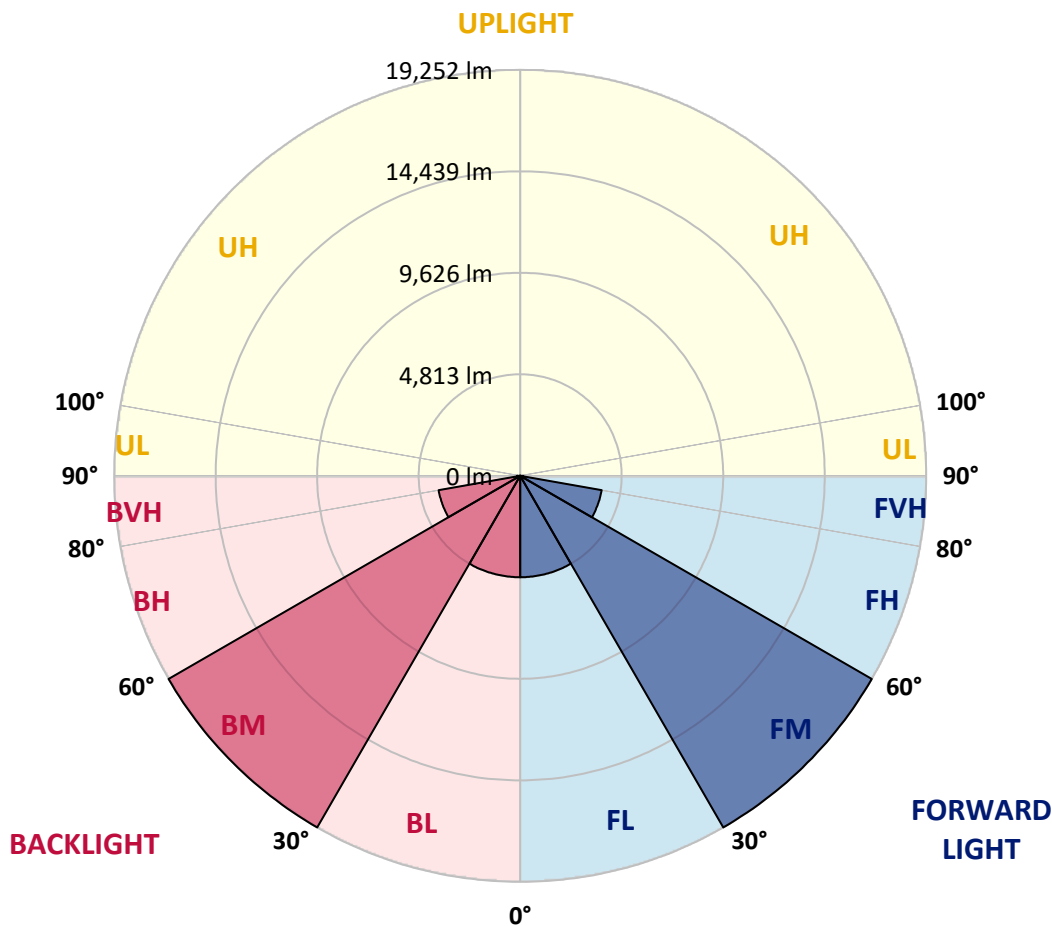
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4810.5	8.6			
FM (30°-60°)	19251.5	34.2			
FH (60°-80°)	3924.6	7.0			G2/5000
FVH (80°-90°)	141.3	0.3			G2/225
BL (0°-30°)	4810.5	8.6	B4/5000		
BM (30°-60°)	19251.5	34.2	B5		
BH (60°-80°)	3924.6	7.0	B4/5000		G2/5000
BVH (80°-90°)	141.3	0.3			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°	11110.1	11110.1	11110.1	11110.1	11110.1	11110.1	11110.1	11110.1	11110.1	11110.1	11110.1
2.5°	11054.7	11165.6	11117.1	11089.4	11110.1	11075.5	11020.0	11082.4	11068.6	11013.1	10992.3
5°	11027.0	11110.1	11054.7	11110.1	11054.7	11151.7	11124.0	11020.0	11144.8	11027.0	11068.6
7.5°	11006.2	11033.9	11047.8	11020.0	10999.3	11117.1	11054.7	11006.2	10936.9	10916.1	10950.7
10°	10957.7	11027.0	10923.0	11061.6	11089.4	11006.2	11006.2	10916.1	10860.6	10826.0	10943.8
12.5°	11082.4	10964.6	10950.7	11020.0	11040.8	11075.5	10978.5	10929.9	10826.0	10839.8	10819.0
15°	10936.9	10985.4	10992.3	11006.2	11027.0	11110.1	11020.0	10916.1	10874.5	10728.9	10742.8
17.5°	10992.3	10943.8	10992.3	11151.7	11124.0	11186.4	11089.4	10929.9	10832.9	10749.7	10860.6
20°	11089.4	11068.6	11089.4	11283.4	11318.1	11373.5	11290.3	11144.8	10957.7	10860.6	10916.1
22.5°	11193.3	11179.5	11193.3	11380.4	11581.4	11650.8	11567.6	11228.0	11130.9	10950.7	10888.4
25°	11380.4	11394.3	11539.9	11747.8	11879.5	12011.2	11858.7	11616.1	11304.2	11193.3	11061.6
27.5°	11796.3	11831.0	11914.1	12219.1	12447.8	12565.6	12350.8	12018.1	11824.0	11595.3	11560.7
30°	12309.2	12309.2	12454.7	12718.1	13030.0	13210.2	12946.8	12551.8	12316.1	12191.4	12115.1
32.5°	12988.4	12912.2	12967.6	13432.0	13917.1	14069.6	13716.1	13231.0	12856.7	12690.4	12634.9
35°	13570.6	13619.1	13743.9	14242.9	14783.5	15137.0	14582.5	13951.8	13570.6	13418.1	13390.4
37.5°	14326.1	14409.2	14471.6	15157.8	15809.3	15940.9	15407.3	14901.3	14437.0	14312.2	14242.9
40°	15393.4	15338.0	15358.8	15864.7	16453.8	16537.0	16010.3	15649.8	15268.7	15192.4	15192.4
42.5°	16273.6	16211.2	16280.6	16467.7	16918.2	16855.8	16564.7	16301.3	16141.9	16058.8	16141.9
45°	16807.3	16793.4	16918.2	17056.8	17375.6	17167.7	16939.0	16980.6	16828.1	16689.5	16682.5
47.5°	17389.5	17299.4	17451.9	17659.8	17417.2	17320.2	17306.3	17396.4	17347.9	17105.3	17029.1
50°	17673.7	17639.0	17881.6	18124.2	17992.5	17770.7	17819.2	17964.8	17341.0	17015.2	16828.1
52.5°	18436.0	18443.0	18907.3	19039.0	18983.6	18657.8	18761.8	18366.7	17632.1	17174.6	17195.4
55°	19635.1	19586.6	20106.4	20494.5	20556.9	20141.0	19642.0	19087.5	18165.7	17701.4	17562.8
57°	18976.7	19087.5	19662.8	20813.3	21395.5	20903.4	19815.3	18803.4	17576.6	17015.2	16765.7
57.5°	18096.4	18276.6	19274.7	20432.1	21042.0	21000.5	19600.4	18276.6	17181.6	16308.3	16329.1
60°	13258.7	13293.4	14194.4	16031.0	17937.0	17978.6	16273.6	14520.1	13300.3	12350.8	12482.5
62.5°	6993.2	7152.6	7513.0	8989.3	10638.8	11040.8	10008.1	9107.1	8053.6	7332.8	7402.1
65°	3701.1	3680.3	3853.6	4269.4	5080.3	5288.2	5149.6	4435.7	4068.4	3950.6	3957.5
67.5°	3008.0	3042.6	3021.8	3042.6	3098.1	3188.2	3167.4	3195.1	3215.9	3250.6	3243.6
70°	2550.6	2550.6	2564.4	2571.3	2571.3	2612.9	2661.4	2751.5	2758.5	2793.1	2807.0
72.5°	2009.9	1996.1	2016.9	2065.4	2072.3	2107.0	2176.3	2231.7	2252.5	2252.5	2210.9
75°	1365.4	1379.2	1407.0	1448.5	1490.1	1552.5	1608.0	1642.6	1656.5	1635.7	1614.9
77.5°	769.3	783.2	804.0	866.4	914.9	970.3	1032.7	1067.4	1102.0	1108.9	1067.4
80°	457.4	457.4	492.1	540.6	596.1	651.5	706.9	748.5	762.4	762.4	741.6
82.5°	277.2	284.2	311.9	360.4	408.9	443.6	492.1	526.7	554.5	547.5	533.7
85°	145.5	145.5	173.3	214.9	249.5	284.2	284.2	263.4	249.5	214.9	201.0
87.5°	48.5	41.6	55.4	55.4	48.5	55.4	55.4	62.4	62.4	62.4	62.4
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)