

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: P533996

Luminaire Tested: **GALN-SA9C-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533996
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-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 48010 lumens
Efficiency: N/A
Efficacy: 99.8 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

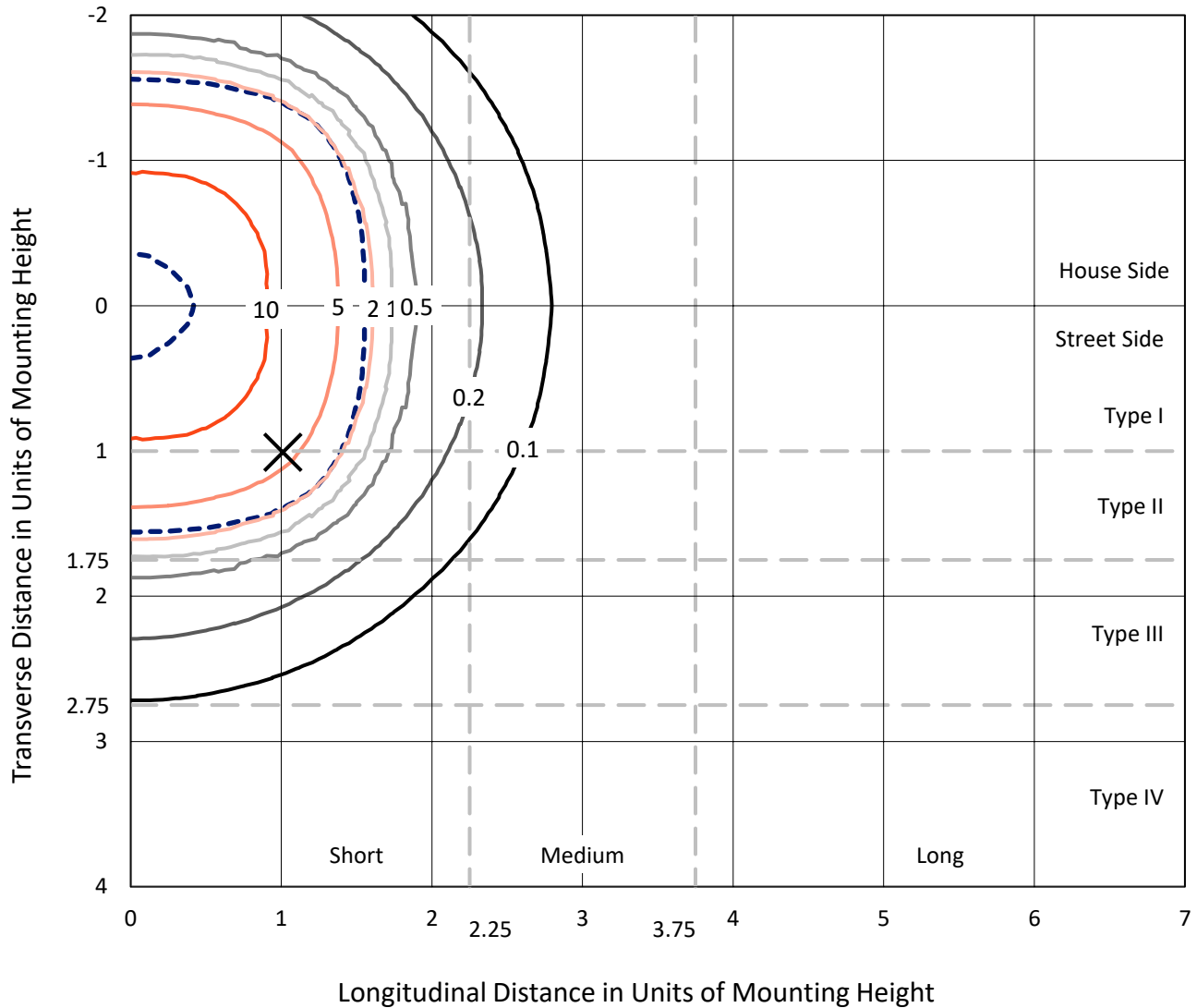
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

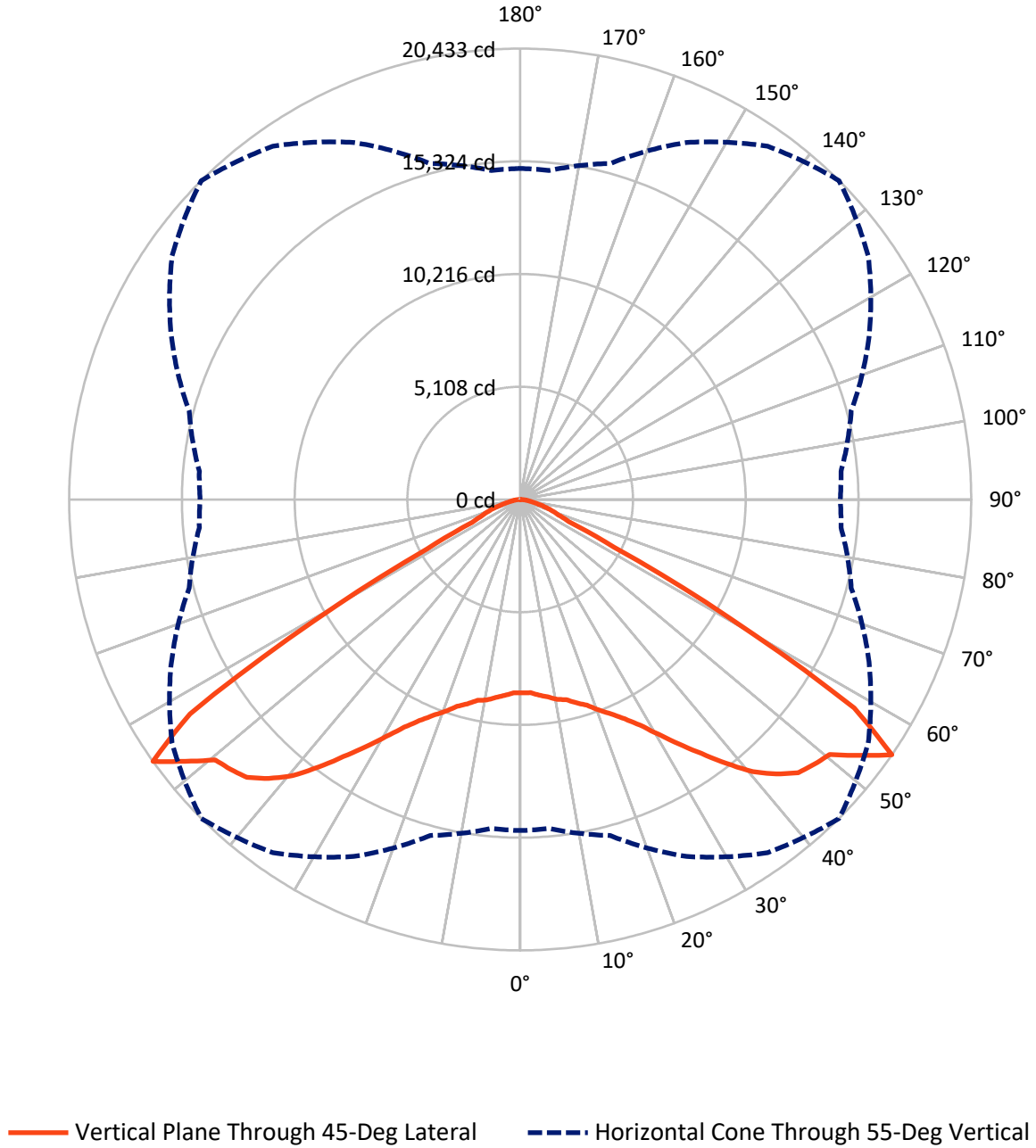
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	24005.0	0.0	24005.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24005.0	0.0	24005.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	48010.0	0.0	48010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	856.3	1.8
10°-20°	2713.3	5.7
20°-30°	5059.5	10.5
30°-40°	8471.3	17.6
40°-50°	13182.0	27.5
50°-60°	13687.0	28.5
60°-70°	2902.6	6.0
70°-80°	955.9	2.0
80°-90°	182.0	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°	48010.0	100.0
0°-180°	48010.0	100.0

Coefficient of Utilization



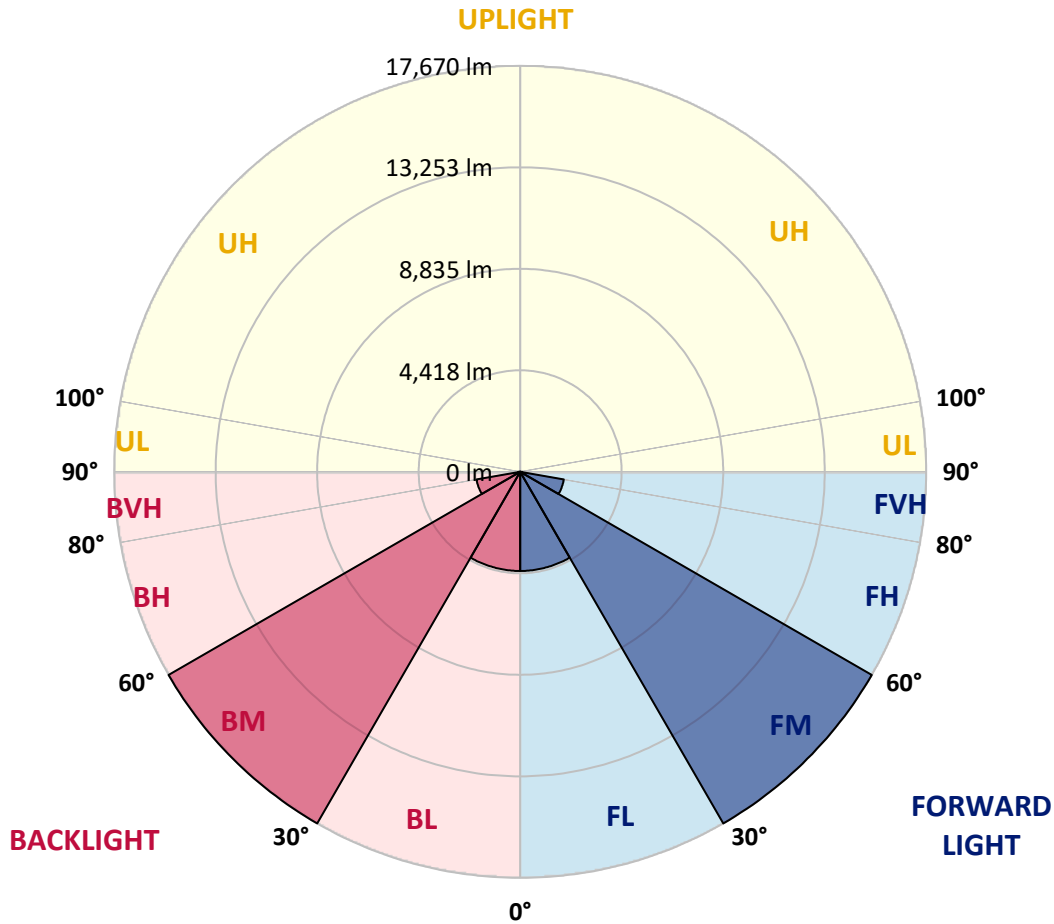
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4314.6	9.0			
FM (30°-60°)	17670.1	36.8			
FH (60°-80°)	1929.2	4.0			G2/5000
FVH (80°-90°)	91.0	0.2			G1/100
BL (0°-30°)	4314.6	9.0	B4/5000		
BM (30°-60°)	17670.1	36.8	B5		
BH (60°-80°)	1929.2	4.0	B3/2500		G2/5000
BVH (80°-90°)	91.0	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°	8765.9	8765.9	8765.9	8765.9	8765.9	8765.9	8765.9	8765.9	8765.9	8765.9	8765.9
2.5°	8870.3	8829.7	8760.1	8812.3	8852.9	8765.9	8800.7	8818.1	8806.5	8760.1	8777.5
5°	8998.0	8974.8	8916.7	8957.4	8905.1	8905.1	8870.3	8823.9	8893.5	8881.9	8910.9
7.5°	8998.0	8969.0	9085.0	9009.6	9032.8	9032.8	8974.8	8928.3	8963.2	8910.9	8881.9
10°	9177.8	9218.4	9166.2	9183.6	9172.0	9212.6	9125.6	9096.6	9067.6	9050.2	9015.4
12.5°	9392.5	9363.5	9380.9	9369.3	9409.9	9305.4	9253.2	9189.4	9241.6	9166.2	9218.4
15°	9566.5	9549.1	9566.5	9612.9	9572.3	9566.5	9473.7	9409.9	9328.6	9346.0	9264.8
17.5°	9804.4	9787.0	9792.8	9833.4	9827.6	9798.6	9728.9	9607.1	9578.1	9531.7	9479.5
20°	10158.2	10129.2	10117.6	10135.0	10164.0	10187.3	10048.0	10001.6	9903.0	9827.6	9740.5
22.5°	10459.9	10448.3	10494.7	10419.3	10483.1	10552.7	10419.3	10396.1	10152.4	10111.8	10019.0
25°	10877.6	10860.2	10831.2	10941.4	11016.9	11011.1	10883.4	10755.8	10570.1	10523.7	10523.7
27.5°	11318.5	11219.9	11370.7	11399.7	11533.2	11573.8	11463.6	11277.9	11103.9	11005.2	11028.5
30°	11869.7	11776.8	11811.6	12020.5	12194.5	12345.4	12066.9	11794.2	11550.6	11376.5	11347.5
32.5°	12420.8	12328.0	12432.4	12635.4	12983.5	13209.8	12937.1	12461.4	12177.1	11921.9	11974.1
35°	12867.5	12937.1	13105.4	13412.8	13772.5	14138.0	13702.9	13337.4	12931.3	12647.0	12687.7
37.5°	13586.9	13801.5	13935.0	14288.8	14799.4	15176.5	14723.9	14248.2	13813.1	13441.8	13314.2
40°	14526.7	14671.7	14822.6	15240.3	15843.6	16220.7	15791.4	15170.7	14741.3	14358.5	14341.1
42.5°	15559.3	15698.6	15855.2	16365.7	16725.4	17009.7	16615.2	16284.5	15808.8	15507.1	15489.7
45°	16760.2	16661.6	16835.7	17172.1	17473.8	17659.5	17404.2	17241.8	16899.5	16621.0	16592.0
47.5°	17560.8	17473.8	17787.1	18088.8	18135.2	17932.1	17984.3	18135.2	17775.5	17317.2	17462.2
50°	18024.9	18024.9	18233.8	18512.3	18425.2	18164.2	18576.1	18587.7	18228.0	17821.9	17821.9
52.5°	17218.5	17398.4	17990.1	18900.9	19191.0	19266.4	19173.6	18779.1	17839.3	17009.7	16969.1
55°	15002.4	14961.8	15762.4	17850.9	19539.1	20432.5	19249.0	17433.2	15524.5	14590.5	14497.7
57.5°	9757.9	9804.4	10999.4	13128.6	16174.3	17839.3	15843.6	13291.0	10999.4	9711.5	9833.4
60°	4391.7	4548.3	5273.5	6863.1	9479.5	10837.0	9502.7	7211.1	5534.5	4803.6	4867.4
62.5°	2523.6	2552.6	2581.6	3063.1	4037.8	4774.5	4194.4	3237.2	2854.3	2726.7	2726.7
65°	2129.1	2111.7	2117.5	2158.1	2262.5	2413.4	2349.6	2262.5	2274.1	2262.5	2245.1
67.5°	1810.0	1833.2	1815.8	1844.8	1850.6	1873.9	1914.5	1949.3	1955.1	1966.7	1955.1
70°	1485.2	1491.0	1502.6	1525.8	1531.6	1549.0	1607.0	1636.0	1653.4	1653.4	1676.6
72.5°	1137.1	1131.3	1142.9	1166.1	1195.1	1200.9	1253.1	1293.7	1316.9	1287.9	1293.7
75°	748.4	754.2	771.6	789.0	829.6	870.2	887.6	928.2	934.0	945.6	916.6
77.5°	446.7	458.3	475.7	510.5	545.3	580.1	620.7	649.8	661.4	649.8	614.9
80°	290.1	290.1	313.3	342.3	382.9	411.9	435.1	458.3	475.7	458.3	446.7
82.5°	179.8	179.8	208.9	243.7	272.7	290.1	324.9	353.9	371.3	359.7	342.3
85°	92.8	98.6	121.8	150.8	174.0	185.6	179.8	162.4	145.0	139.2	127.6
87.5°	29.0	29.0	34.8	34.8	29.0	29.0	34.8	29.0	34.8	34.8	34.8
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)