

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: P534231

Luminaire Tested: **GALN-SA9D-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30593 lumens
Efficiency: N/A
Efficacy: 55.4 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

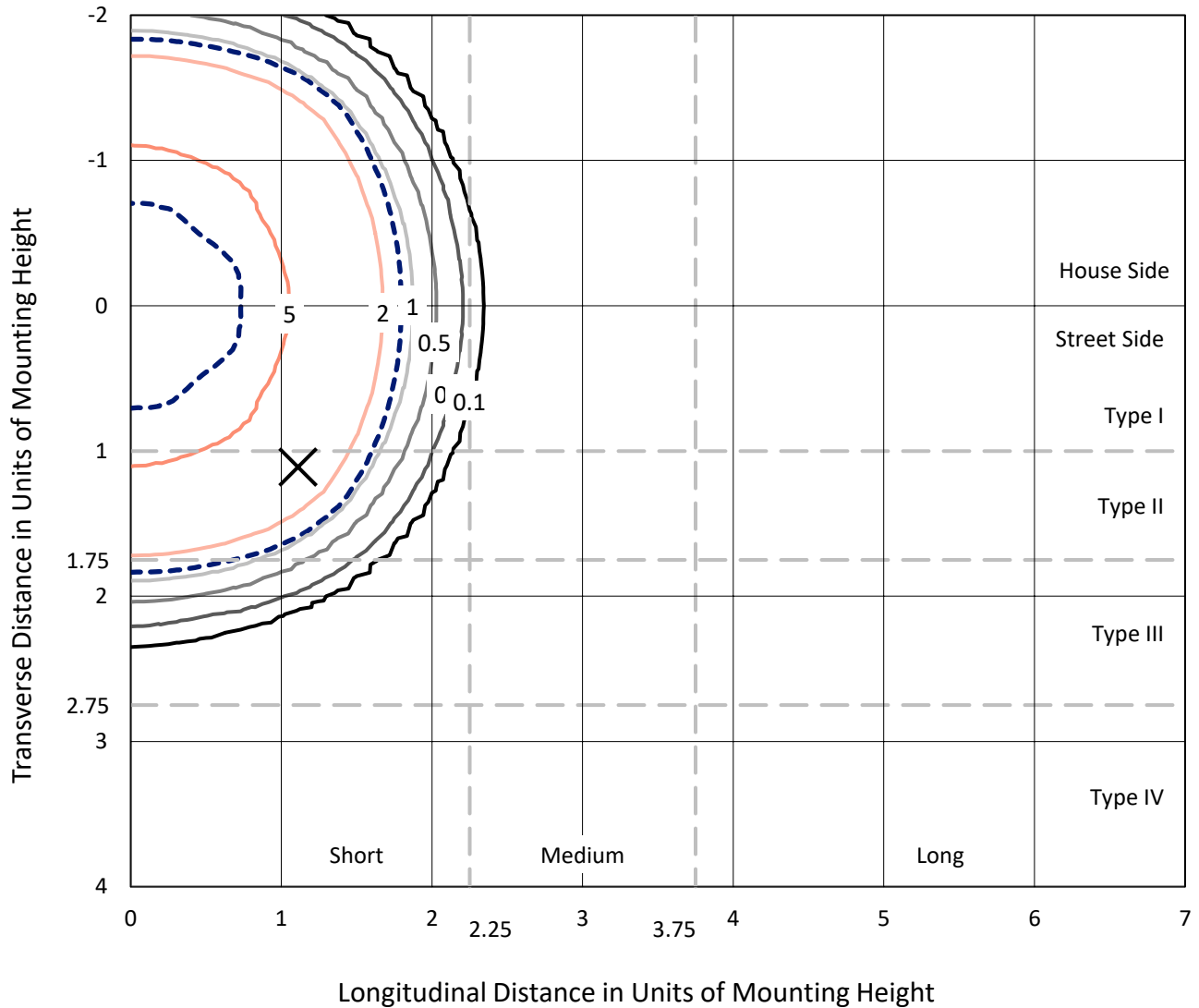
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

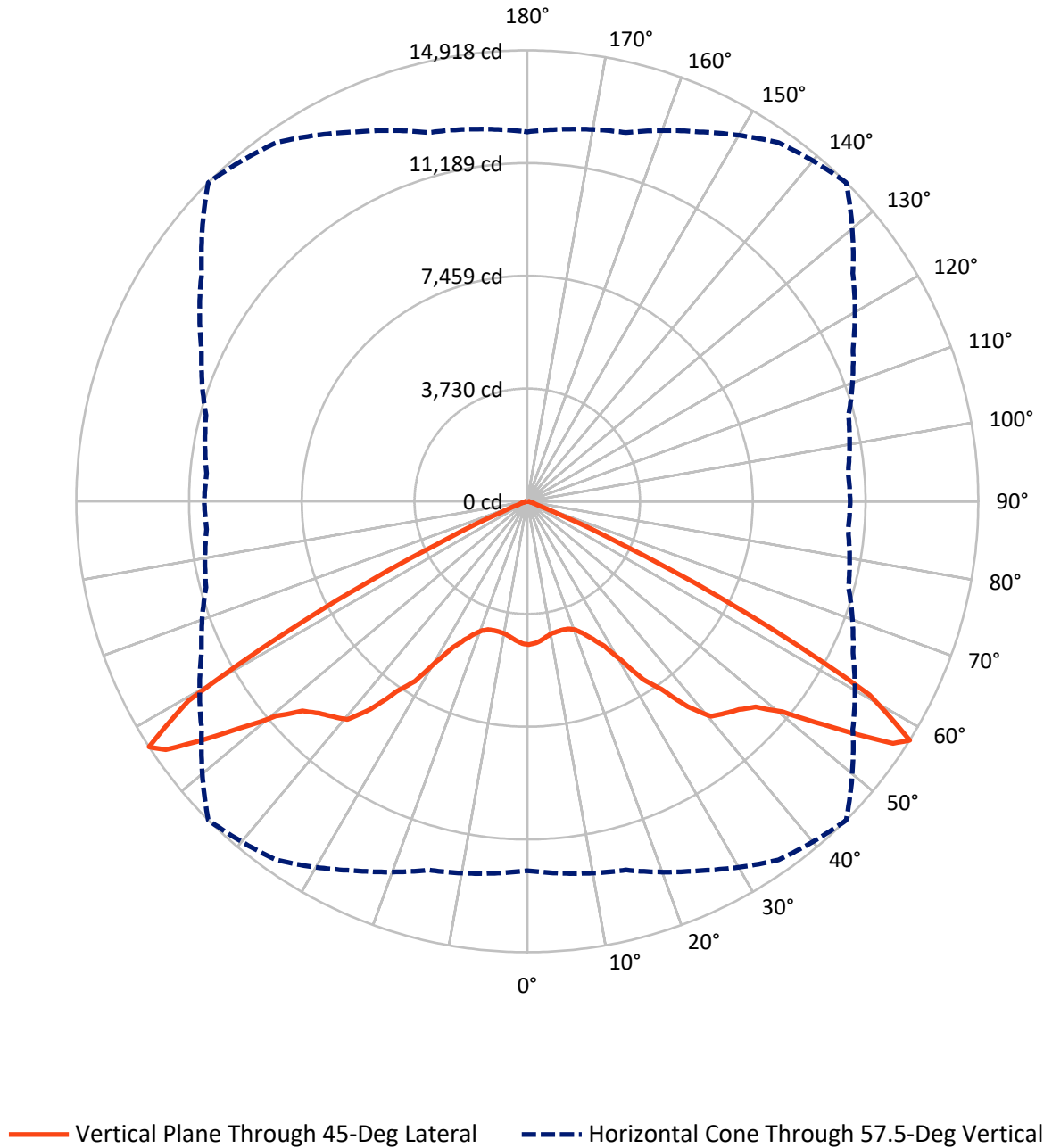
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	15296.5	0.0	15296.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15296.5	0.0	15296.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30593.0	0.0	30593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.1	1.4
10°-20°	1260.4	4.1
20°-30°	2326.6	7.6
30°-40°	4575.5	15.0
40°-50°	7452.3	24.4
50°-60°	10627.9	34.7
60°-70°	3679.7	12.0
70°-80°	197.4	0.6
80°-90°	37.1	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°	30593.0	100.0
0°-180°	30593.0	100.0

Coefficient of Utilization



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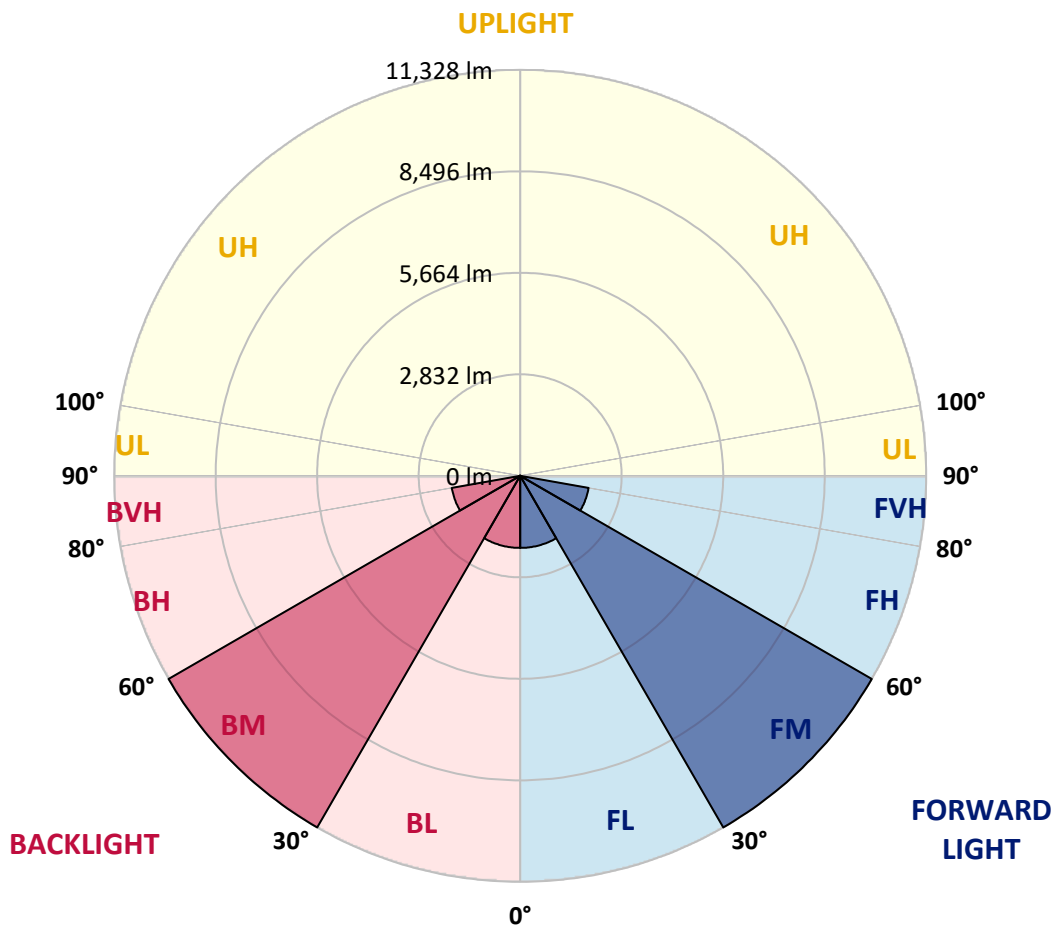
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2011.6	6.6			
FM (30°-60°)	11327.9	37.0			
FH (60°-80°)	1938.5	6.3			G2/5000
FVH (80°-90°)	18.5	0.1			G1/100
BL (0°-30°)	2011.6	6.6	B3/2500		
BM (30°-60°)	11327.9	37.0	B5		
BH (60°-80°)	1938.5	6.3	B3/2500		G2/5000
BVH (80°-90°)	18.5	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-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4745.3	4745.3	4745.3	4745.3	4745.3	4745.3	4745.3	4745.3	4745.3	4745.3	4745.3
2.5°	4732.5	4758.1	4726.2	4713.4	4707.0	4707.0	4687.9	4687.9	4681.5	4687.9	4662.4
5°	4656.0	4681.5	4681.5	4675.1	4636.9	4630.5	4611.4	4598.6	4605.0	4579.5	4598.6
7.5°	4579.5	4598.6	4573.1	4566.7	4554.0	4528.4	4522.1	4464.7	4471.0	4471.0	4483.8
10°	4566.7	4560.3	4522.1	4490.2	4451.9	4445.5	4426.4	4413.6	4413.6	4407.3	4426.4
12.5°	4566.7	4534.8	4528.4	4458.3	4394.5	4420.0	4369.0	4337.1	4381.7	4394.5	4420.0
15°	4560.3	4592.2	4483.8	4451.9	4407.3	4413.6	4369.0	4337.1	4362.6	4375.4	4394.5
17.5°	4598.6	4579.5	4547.6	4483.8	4464.7	4439.1	4381.7	4356.2	4356.2	4388.1	4394.5
20°	4700.6	4649.6	4585.8	4554.0	4573.1	4541.2	4471.0	4375.4	4400.9	4426.4	4445.5
22.5°	4796.3	4758.1	4713.4	4694.3	4802.7	4751.7	4630.5	4522.1	4483.8	4528.4	4560.3
25°	4981.3	4981.3	4898.4	4923.9	5045.1	5051.4	4911.1	4719.8	4694.3	4713.4	4726.2
27.5°	5357.6	5376.7	5306.6	5332.1	5383.1	5427.7	5306.6	5147.1	5089.7	5083.3	5102.5
30°	5765.8	5804.1	5797.7	5906.1	6052.8	6078.3	5899.7	5638.2	5466.0	5434.1	5459.6
32.5°	6301.5	6320.7	6307.9	6435.5	6830.9	7015.9	6550.3	6180.4	5950.8	6008.2	5950.8
35°	7309.3	7290.2	7149.8	7175.3	7500.6	7634.6	7188.1	6952.1	6843.7	6958.5	6933.0
37.5°	8176.7	8106.5	7991.7	8157.6	8495.6	8616.8	8151.2	7736.6	7538.9	7730.2	7813.2
40°	8910.2	8731.6	8572.1	8738.0	9190.8	9356.6	8674.2	8336.2	8259.6	8399.9	8578.5
42.5°	9528.9	9414.1	9203.6	9216.3	9516.1	9592.6	9044.1	8846.4	8769.9	8993.1	9082.4
45°	9968.9	9860.5	9662.8	9650.0	9879.7	9828.6	9337.5	9203.6	9248.2	9394.9	9439.6
47.5°	10192.2	10249.6	10134.8	10166.7	10287.8	10166.7	9777.6	9777.6	9675.6	9764.8	9720.2
50°	10836.4	10657.8	10804.5	10804.5	10932.0	10944.8	10555.7	10415.4	10141.2	9988.1	9988.1
52.5°	11589.0	11601.7	11659.1	11869.6	12086.5	12271.4	11716.5	11117.0	10657.8	10460.1	10434.5
55°	12207.7	12335.2	12564.8	12960.3	13585.3	13840.4	12883.7	11812.2	11250.9	10944.8	10881.0
56°	12545.7	12424.5	12819.9	13362.1	14178.5	14510.1	13075.1	11952.5	11333.9	10989.4	10983.1
57.5°	12220.4	12354.3	12628.6	13483.3	14484.6	14918.3	13145.2	11888.7	11002.2	10651.4	10683.3
60°	9650.0	9777.6	10147.5	11104.2	12673.3	13011.3	11123.4	9803.1	9012.2	8508.4	8514.7
62.5°	5459.6	5555.3	5842.3	6728.9	7704.7	8030.0	6933.0	6052.8	5504.3	5223.7	5134.4
65°	2009.1	1970.8	2015.5	2468.3	3067.9	3342.1	2882.9	2436.4	2149.4	2047.4	2009.1
67.5°	752.6	695.2	650.6	695.2	873.8	924.8	848.3	708.0	663.3	682.5	695.2
70°	465.6	440.1	350.8	331.7	325.3	318.9	338.0	357.2	408.2	478.4	491.1
72.5°	325.3	306.1	248.7	236.0	223.2	216.9	248.7	274.3	318.9	369.9	376.3
75°	127.6	133.9	127.6	140.3	146.7	153.1	178.6	197.7	216.9	216.9	210.5
77.5°	25.5	25.5	38.3	51.0	63.8	82.9	121.2	140.3	146.7	140.3	121.2
80°	0.0	0.0	12.8	25.5	51.0	70.2	108.4	121.2	133.9	121.2	95.7
82.5°	0.0	0.0	12.8	31.9	51.0	63.8	102.0	127.6	146.7	133.9	102.0
85°	0.0	0.0	12.8	25.5	38.3	44.6	44.6	31.9	31.9	19.1	12.8
87.5°	0.0	0.0	0.0	0.0	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)