

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: P533528

Luminaire Tested: **GALN-SA9A-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533528
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-SA9A-727-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 31229 lumens
Efficiency: N/A
Efficacy: 114.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

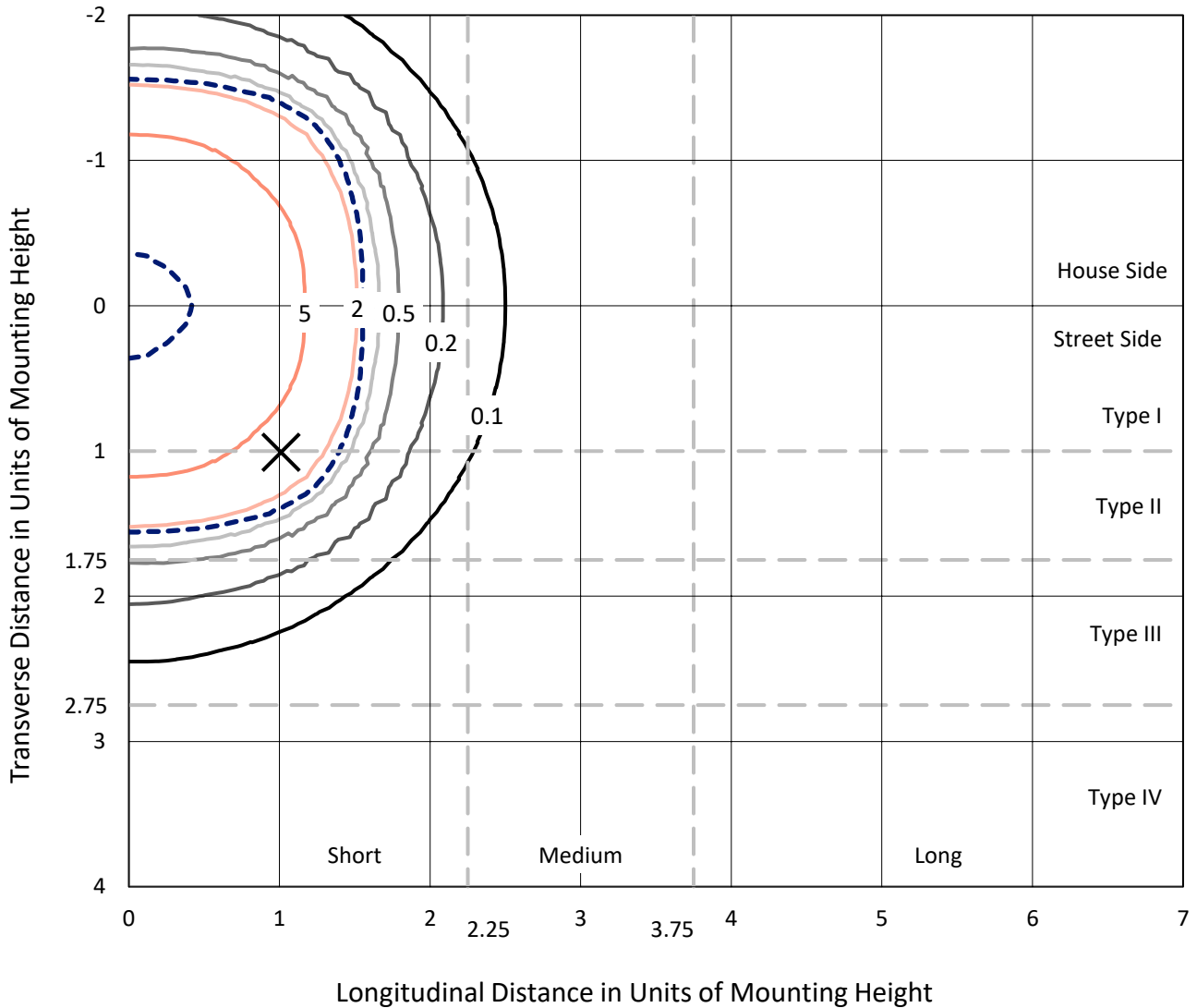
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

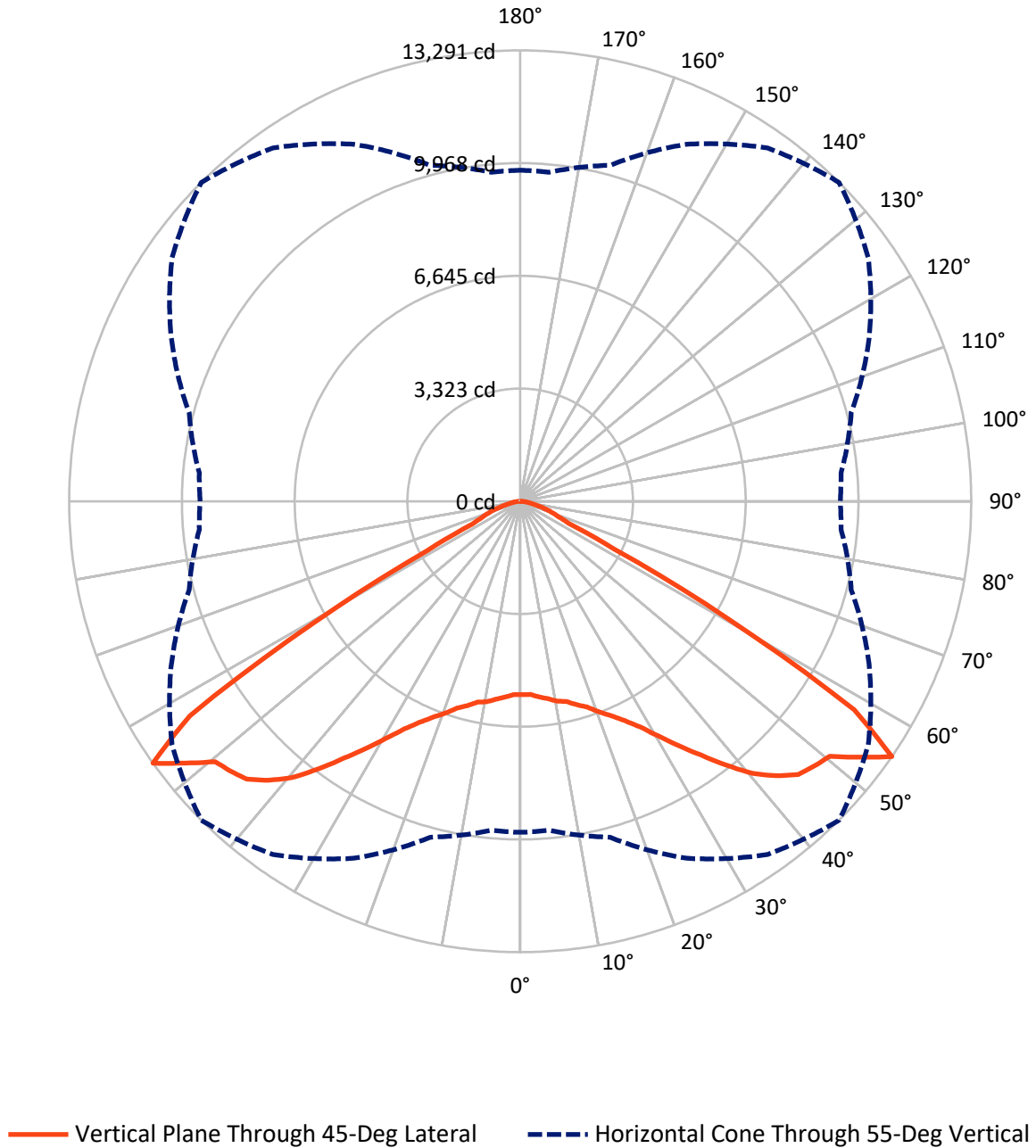
✕ Max cd
 - - - 1/2 Max cd



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15614.5	0.0	15614.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15614.5	0.0	15614.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	31229.0	0.0	31229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	557.0	1.8
10°-20°	1764.9	5.7
20°-30°	3291.1	10.5
30°-40°	5510.3	17.6
40°-50°	8574.5	27.5
50°-60°	8903.0	28.5
60°-70°	1888.0	6.0
70°-80°	621.8	2.0
80°-90°	118.4	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°	31229.0	100.0
0°-180°	31229.0	100.0

Coefficient of Utilization

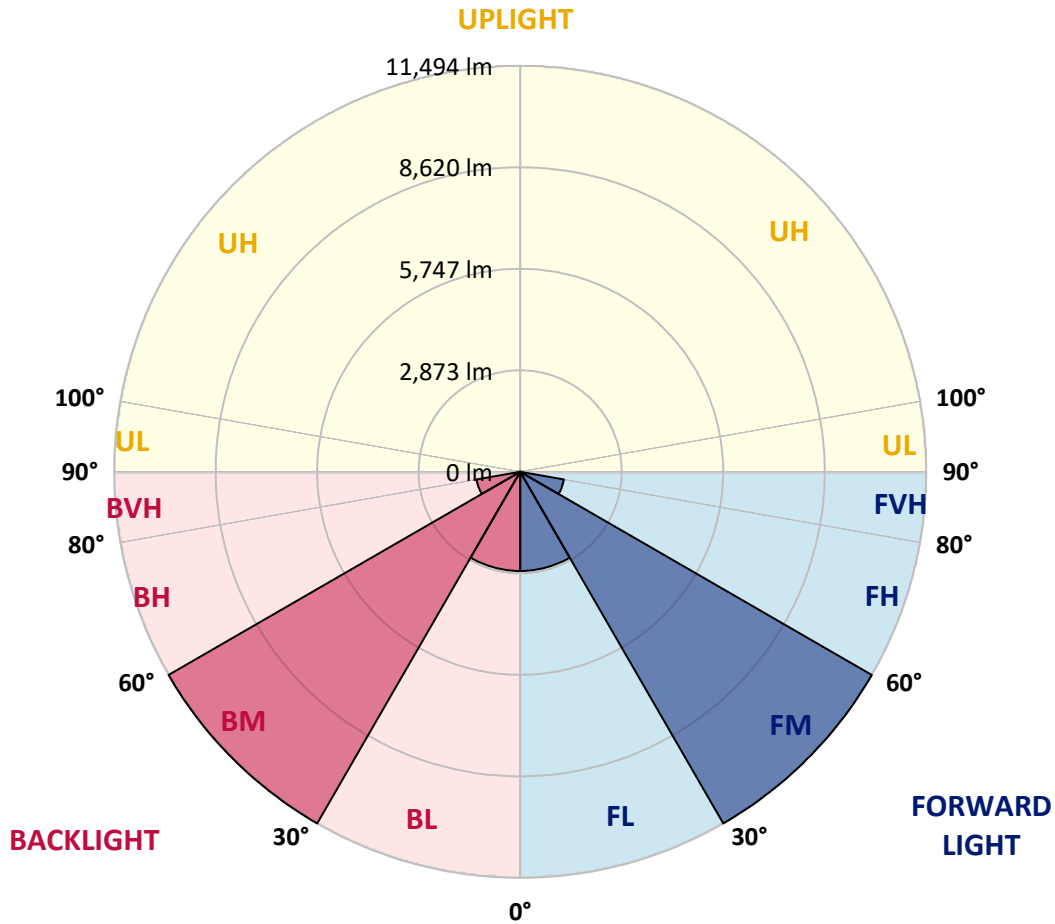


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2806.5	9.0			
FM (30°-60°)	11493.9	36.8			
FH (60°-80°)	1254.9	4.0			G1/1800
FVH (80°-90°)	59.2	0.2			G1/100
BL (0°-30°)	2806.5	9.0	B4/5000		
BM (30°-60°)	11493.9	36.8	B5		
BH (60°-80°)	1254.9	4.0	B3/2500		G1/1800
BVH (80°-90°)	59.2	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5701.9	5701.9	5701.9	5701.9	5701.9	5701.9	5701.9	5701.9	5701.9	5701.9	5701.9
2.5°	5769.9	5743.5	5698.2	5732.1	5758.6	5701.9	5724.6	5735.9	5728.4	5698.2	5709.5
5°	5852.9	5837.8	5800.1	5826.5	5792.5	5792.5	5769.9	5739.7	5785.0	5777.4	5796.3
7.5°	5852.9	5834.0	5909.5	5860.4	5875.5	5875.5	5837.8	5807.6	5830.3	5796.3	5777.4
10°	5969.9	5996.3	5962.3	5973.7	5966.1	5992.5	5935.9	5917.0	5898.2	5886.9	5864.2
12.5°	6109.5	6090.6	6102.0	6094.4	6120.8	6052.9	6018.9	5977.4	6011.4	5962.3	5996.3
15°	6222.7	6211.4	6222.7	6252.9	6226.5	6222.7	6162.3	6120.8	6068.0	6079.3	6026.5
17.5°	6377.4	6366.1	6369.9	6396.3	6392.5	6373.7	6328.4	6249.1	6230.3	6200.1	6166.1
20°	6607.6	6588.8	6581.2	6592.5	6611.4	6626.5	6535.9	6505.7	6441.6	6392.5	6335.9
22.5°	6803.8	6796.3	6826.5	6777.4	6818.9	6864.2	6777.4	6762.3	6603.8	6577.4	6517.1
25°	7075.5	7064.2	7045.4	7117.1	7166.1	7162.3	7079.3	6996.3	6875.5	6845.4	6845.4
27.5°	7362.3	7298.2	7396.3	7415.2	7502.0	7528.4	7456.7	7335.9	7222.7	7158.6	7173.7
30°	7720.8	7660.5	7683.1	7819.0	7932.2	8030.3	7849.1	7671.8	7513.3	7400.1	7381.2
32.5°	8079.3	8019.0	8086.9	8219.0	8445.4	8592.5	8415.2	8105.7	7920.8	7754.8	7788.8
35°	8369.9	8415.2	8524.6	8724.6	8958.6	9196.3	8913.3	8675.6	8411.4	8226.5	8252.9
37.5°	8837.8	8977.5	9064.3	9294.4	9626.5	9871.8	9577.5	9268.0	8985.0	8743.5	8660.5
40°	9449.2	9543.5	9641.6	9913.3	10305.8	10551.1	10271.8	9868.0	9588.8	9339.7	9328.4
42.5°	10120.9	10211.4	10313.3	10645.4	10879.4	11064.3	10807.7	10592.6	10283.1	10086.9	10075.6
45°	10902.0	10837.9	10951.1	11169.9	11366.2	11486.9	11320.9	11215.2	10992.6	10811.4	10792.6
47.5°	11422.8	11366.2	11569.9	11766.2	11796.4	11664.3	11698.2	11796.4	11562.4	11264.3	11358.6
50°	11724.7	11724.7	11860.5	12041.6	11985.0	11815.2	12083.2	12090.7	11856.7	11592.6	11592.6
52.5°	11200.1	11317.1	11702.0	12294.5	12483.2	12532.2	12471.8	12215.2	11603.9	11064.3	11037.9
55°	9758.6	9732.2	10252.9	11611.4	12709.6	13290.7	12520.9	11339.7	10098.2	9490.7	9430.3
57.5°	6347.2	6377.4	7154.8	8539.7	10520.9	11603.9	10305.8	8645.4	7154.8	6317.1	6396.3
60°	2856.6	2958.5	3430.2	4464.2	6166.1	7049.1	6181.2	4690.6	3600.0	3124.6	3166.1
62.5°	1641.5	1660.4	1679.3	1992.5	2626.4	3105.7	2728.3	2105.7	1856.6	1773.6	1773.6
65°	1384.9	1373.6	1377.4	1403.8	1471.7	1569.8	1528.3	1471.7	1479.3	1471.7	1460.4
67.5°	1177.4	1192.5	1181.1	1200.0	1203.8	1218.9	1245.3	1267.9	1271.7	1279.3	1271.7
70°	966.0	969.8	977.4	992.5	996.2	1007.6	1045.3	1064.2	1075.5	1075.5	1090.6
72.5°	739.6	735.9	743.4	758.5	777.4	781.1	815.1	841.5	856.6	837.7	841.5
75°	486.8	490.6	501.9	513.2	539.6	566.0	577.4	603.8	607.6	615.1	596.2
77.5°	290.6	298.1	309.4	332.1	354.7	377.4	403.8	422.6	430.2	422.6	400.0
80°	188.7	188.7	203.8	222.6	249.1	267.9	283.0	298.1	309.4	298.1	290.6
82.5°	117.0	117.0	135.9	158.5	177.4	188.7	211.3	230.2	241.5	234.0	222.6
85°	60.4	64.2	79.2	98.1	113.2	120.8	117.0	105.7	94.3	90.6	83.0
87.5°	18.9	18.9	22.6	22.6	18.9	18.9	22.6	18.9	22.6	22.6	22.6
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)