

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: P533062

Luminaire Tested: **GALN-SA8C-727-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40279 lumens
Efficiency: N/A
Efficacy: 93.9 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

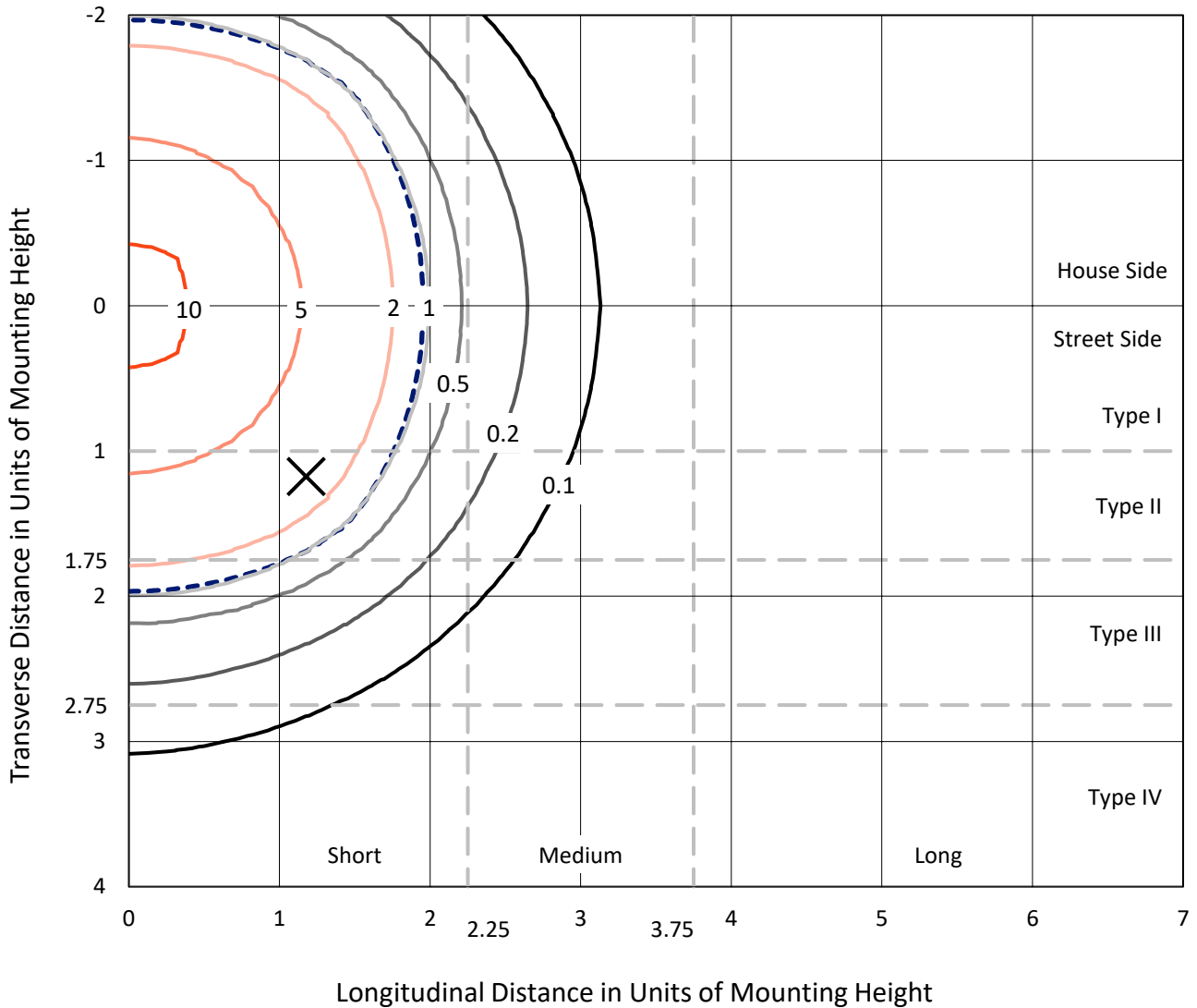
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

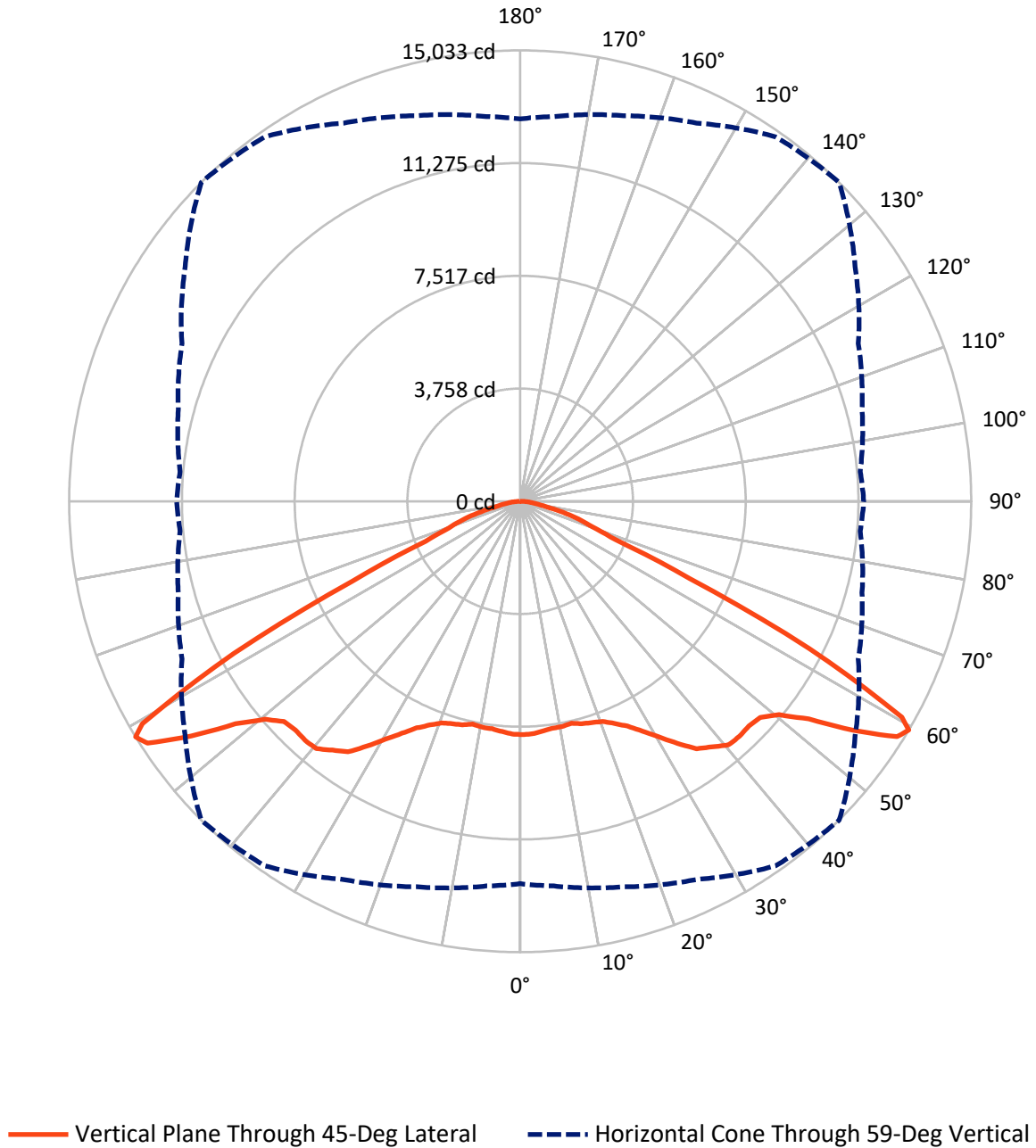
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.4 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	20139.5	0.0	20139.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20139.5	0.0	20139.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40279.0	0.0	40279.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	733.4	1.8
10°-20°	2181.0	5.4
20°-30°	3808.3	9.5
30°-40°	6082.4	15.1
40°-50°	8285.4	20.6
50°-60°	11204.1	27.8
60°-70°	6144.4	15.3
70°-80°	1571.9	3.9
80°-90°	268.1	0.7
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°	40279.0	100.0
0°-180°	40279.0	100.0

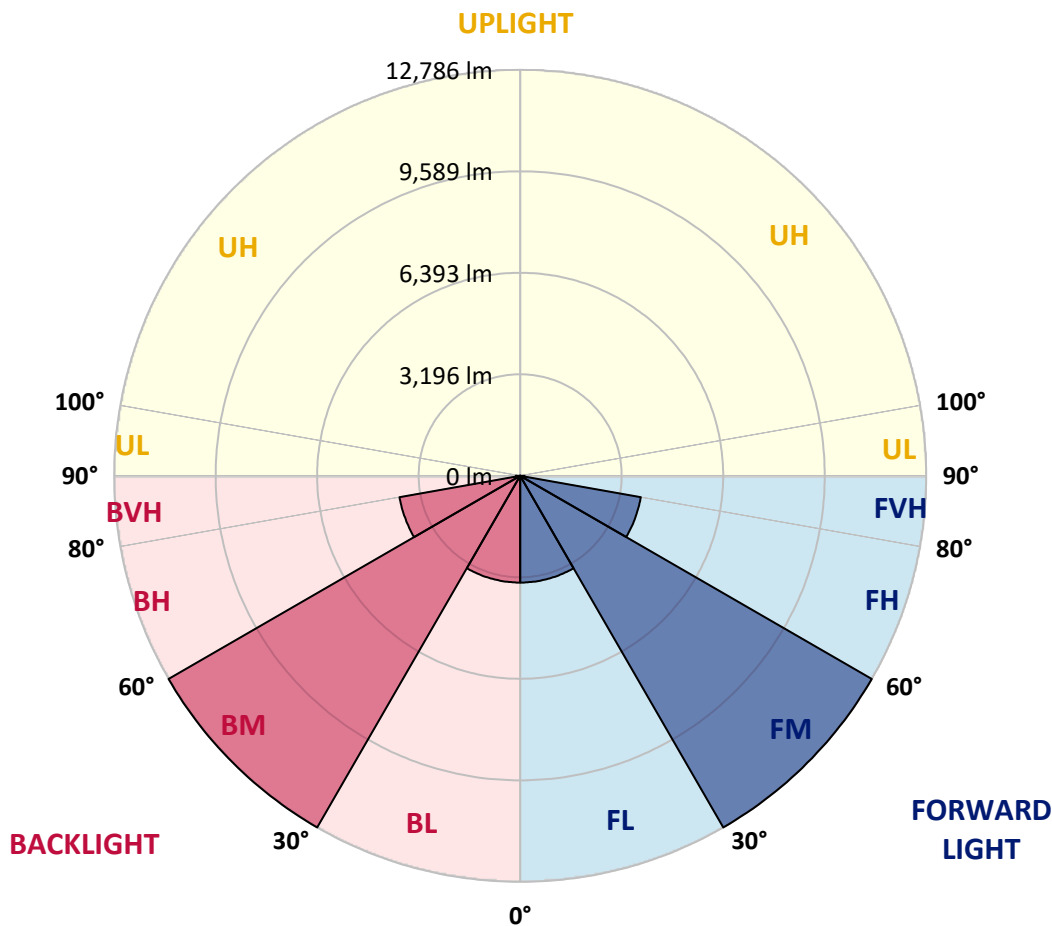


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3361.4	8.3			
FM (30°-60°)	12786.0	31.7			
FH (60°-80°)	3858.1	9.6			G2/5000
FVH (80°-90°)	134.0	0.3			G2/225
BL (0°-30°)	3361.4	8.3	B4/5000		
BM (30°-60°)	12786.0	31.7	B5		
BH (60°-80°)	3858.1	9.6	B4/5000		G2/5000
BVH (80°-90°)	134.0	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°	7780.0	7780.0	7780.0	7780.0	7780.0	7780.0	7780.0	7780.0	7780.0	7780.0	7780.0
2.5°	7733.5	7790.3	7749.0	7785.1	7780.0	7764.5	7738.7	7723.2	7702.5	7733.5	7681.9
5°	7702.5	7749.0	7795.5	7733.5	7733.5	7702.5	7687.1	7656.1	7656.1	7650.9	7645.8
7.5°	7754.2	7707.7	7687.1	7697.4	7707.7	7640.6	7687.1	7625.1	7573.5	7609.6	7650.9
10°	7707.7	7728.4	7650.9	7687.1	7630.3	7640.6	7609.6	7650.9	7594.1	7594.1	7594.1
12.5°	7754.2	7697.4	7723.2	7697.4	7681.9	7594.1	7635.4	7589.0	7583.8	7635.4	7589.0
15°	7847.1	7754.2	7733.5	7681.9	7697.4	7697.4	7656.1	7661.2	7604.4	7635.4	7645.8
17.5°	7816.1	7764.5	7749.0	7687.1	7738.7	7754.2	7676.7	7625.1	7661.2	7656.1	7650.9
20°	7841.9	7862.6	7847.1	7857.4	7878.1	7836.8	7764.5	7692.2	7645.8	7712.9	7707.7
22.5°	8007.1	7986.5	7976.2	7965.8	8002.0	8043.3	7945.2	7831.6	7831.6	7878.1	7898.7
25°	8141.4	8136.2	8131.0	8177.5	8301.4	8301.4	8177.5	8032.9	7996.8	8027.8	8002.0
27.5°	8337.5	8394.3	8373.7	8456.3	8637.0	8678.3	8513.1	8342.7	8244.6	8208.5	8254.9
30°	8786.7	8719.6	8735.0	8822.8	8982.9	9117.1	8864.1	8683.4	8549.2	8544.0	8564.7
32.5°	9086.1	9137.7	9184.2	9266.8	9519.8	9623.0	9318.4	9024.2	8941.6	8895.1	8910.6
35°	9685.0	9638.5	9628.2	9710.8	9963.7	10134.1	9752.1	9493.9	9385.5	9488.8	9488.8
37.5°	10252.8	10123.8	10025.7	10134.1	10366.4	10387.1	10061.8	9922.4	9865.7	9984.4	9979.2
40°	10521.3	10511.0	10283.8	10345.8	10655.5	10686.5	10381.9	10216.7	10206.4	10361.3	10516.1
42.5°	10800.1	10702.0	10474.8	10516.1	10707.1	10717.5	10428.4	10381.9	10495.5	10645.2	10655.5
45°	10846.5	10763.9	10619.4	10516.1	10655.5	10686.5	10516.1	10547.1	10557.4	10738.1	10738.1
47.5°	10939.5	10929.1	10846.5	10769.1	10794.9	10769.1	10660.7	10707.1	10862.0	10949.8	10908.5
50°	11197.6	11089.2	11171.8	11104.7	11109.8	11182.1	11084.0	11130.5	11099.5	11022.1	10970.4
52.5°	11765.5	11713.8	11786.1	11832.6	11884.2	12049.4	11935.8	11688.0	11455.7	11249.2	11244.1
55°	12596.6	12632.8	12772.2	13009.6	13211.0	13474.3	12927.0	12333.4	11961.6	11636.4	11657.1
57.5°	13381.4	13355.5	13546.6	14088.6	14677.2	14811.4	13737.6	12890.9	12286.9	12080.4	11992.6
59°	12751.5	12875.4	13309.1	13913.1	14837.2	15033.4	13629.2	12436.6	11796.4	11378.3	11450.6
60°	11760.3	11806.8	12194.0	13035.5	14284.8	14620.4	12901.2	11734.5	10882.7	10640.0	10748.4
62.5°	8311.7	8275.6	8554.4	9241.0	10361.3	10815.6	9592.0	8771.2	8234.3	7965.8	8027.8
65°	4419.2	4584.4	4697.9	5126.4	5720.1	6200.2	5694.3	5338.1	5038.7	4816.7	4811.5
67.5°	2984.0	2963.3	2989.1	3087.2	3288.6	3422.8	3412.5	3231.8	3205.9	3164.6	3211.1
70°	2514.2	2503.8	2457.4	2457.4	2498.7	2529.7	2565.8	2586.4	2627.7	2679.4	2674.2
72.5°	2039.2	2013.4	1982.4	1966.9	2018.6	2034.0	2080.5	2101.2	2137.3	2132.1	2178.6
75°	1347.4	1347.4	1383.6	1424.9	1440.4	1471.3	1476.5	1538.4	1538.4	1548.8	1507.5
77.5°	753.7	733.1	758.9	800.2	836.3	893.1	949.9	996.4	1022.2	1011.9	1011.9
80°	438.8	438.8	464.6	511.1	557.6	609.2	650.5	686.6	712.4	702.1	681.5
82.5°	273.6	273.6	299.4	345.9	382.0	413.0	469.8	516.3	547.2	536.9	511.1
85°	139.4	139.4	170.4	201.3	247.8	268.5	263.3	242.6	237.5	211.7	211.7
87.5°	36.1	36.1	51.6	56.8	46.5	51.6	51.6	51.6	51.6	51.6	56.8
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)