

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: P531423

Luminaire Tested: **GALN-SA6D-727-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531423
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-SA6D-727-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 20011 lumens
Efficiency: N/A
Efficacy: 54.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

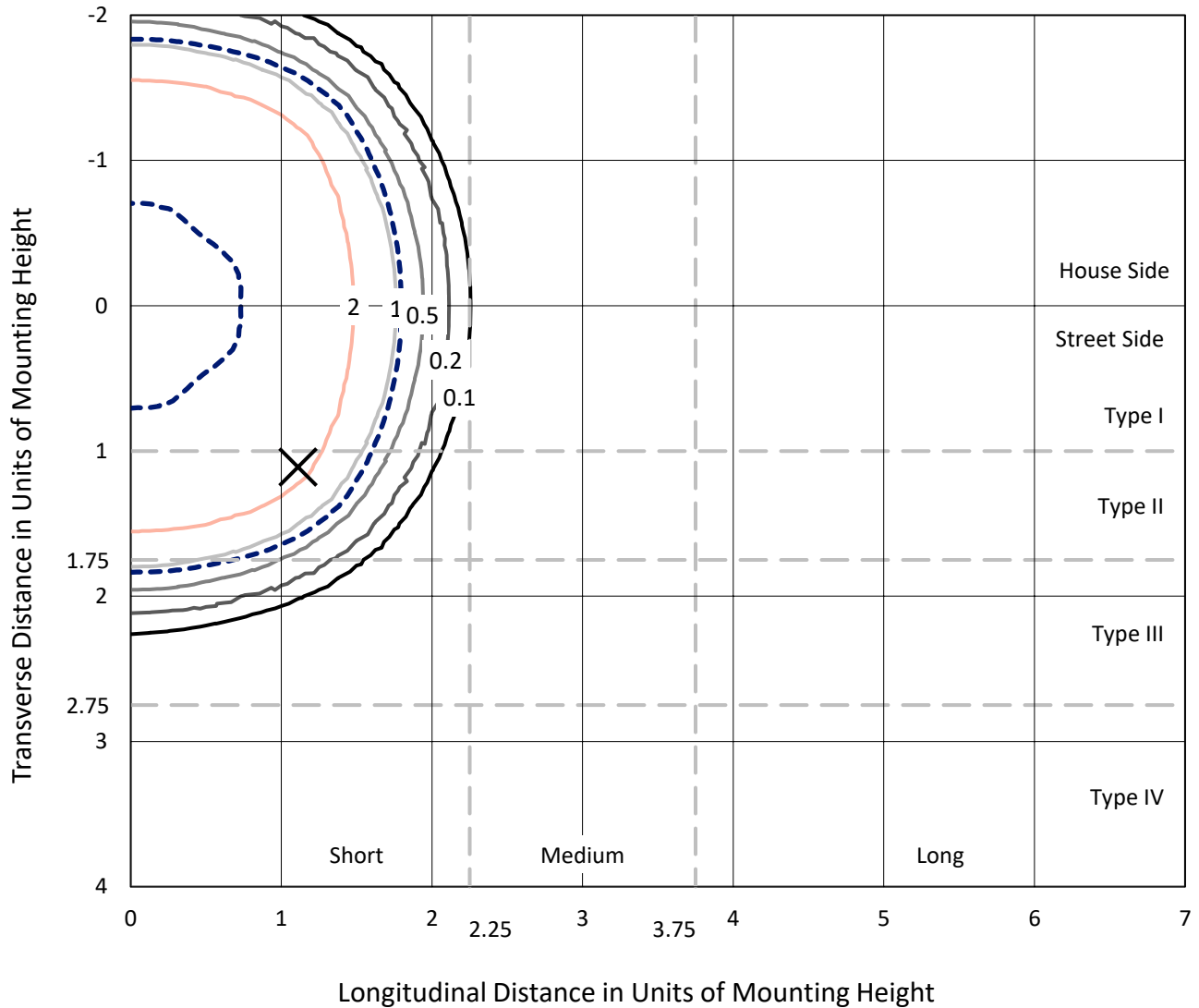
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

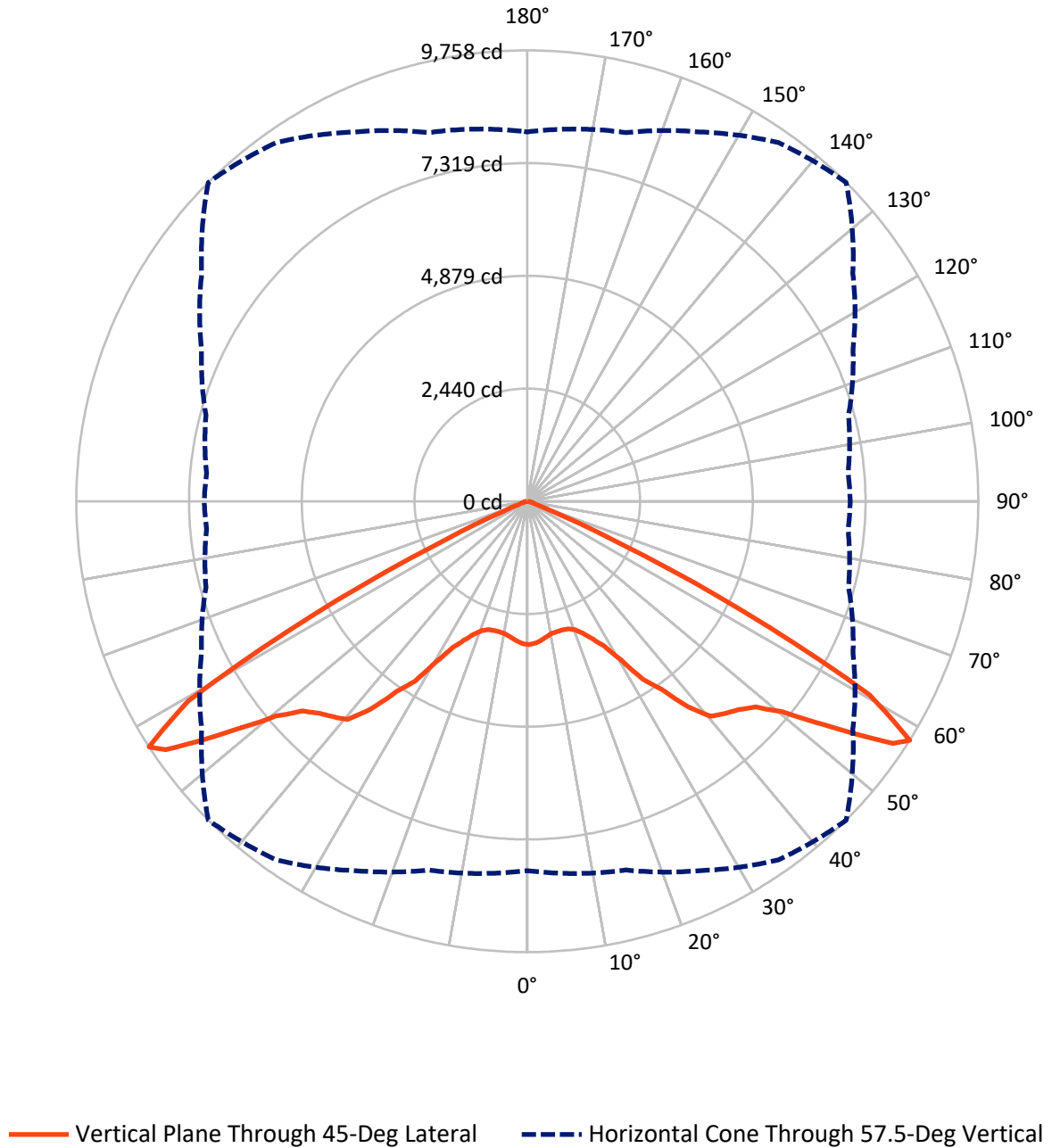
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	10005.5	0.0	10005.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10005.5	0.0	10005.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20011.0	0.0	20011.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	285.2	1.4
10°-20°	824.5	4.1
20°-30°	1521.8	7.6
30°-40°	2992.9	15.0
40°-50°	4874.6	24.4
50°-60°	6951.8	34.7
60°-70°	2406.9	12.0
70°-80°	129.1	0.6
80°-90°	24.3	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°	20011.0	100.0
0°-180°	20011.0	100.0



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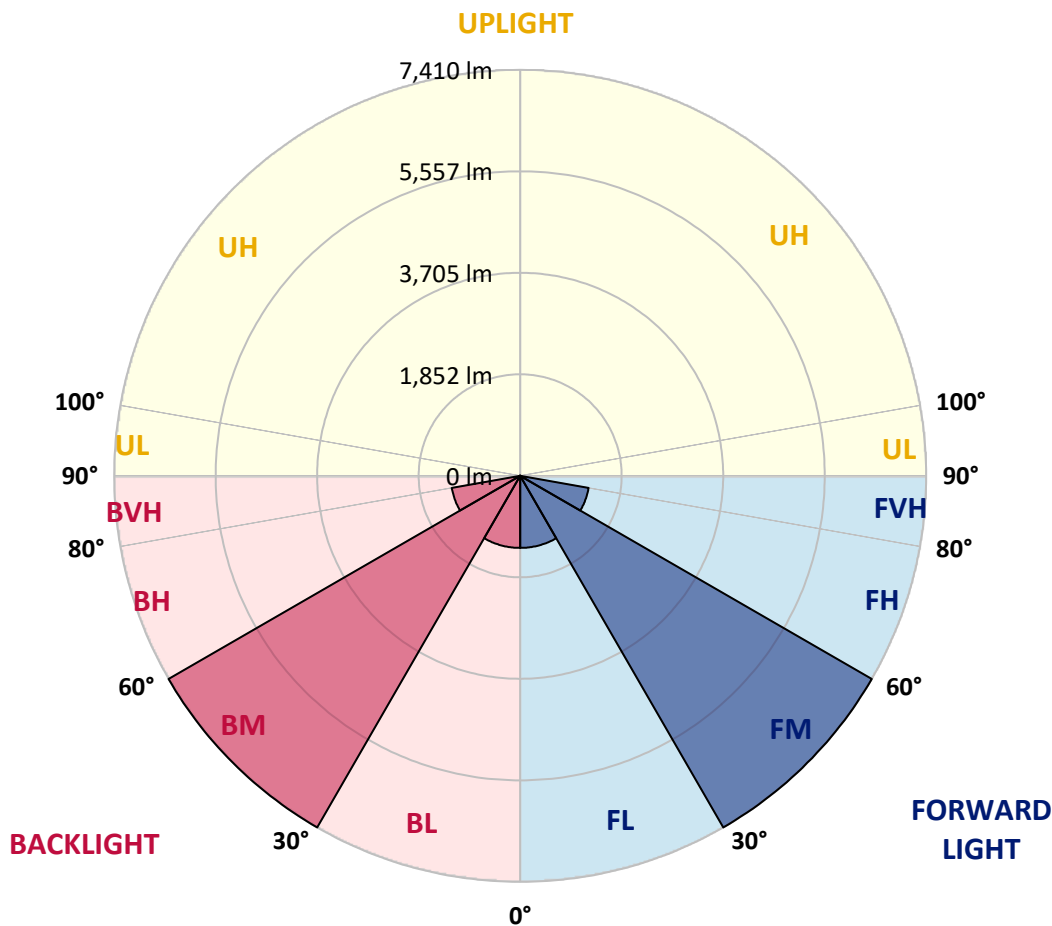
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1315.8	6.6			
FM (30°-60°)	7409.6	37.0			
FH (60°-80°)	1268.0	6.3			G1/1800
FVH (80°-90°)	12.1	0.1			G1/100
BL (0°-30°)	1315.8	6.6	B3/2500		
BM (30°-60°)	7409.6	37.0	B4/8500		
BH (60°-80°)	1268.0	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3103.9	3103.9	3103.9	3103.9	3103.9	3103.9	3103.9	3103.9	3103.9	3103.9	3103.9
2.5°	3095.6	3112.3	3091.4	3083.1	3078.9	3078.9	3066.4	3066.4	3062.2	3066.4	3049.7
5°	3045.5	3062.2	3062.2	3058.0	3033.0	3028.8	3016.3	3008.0	3012.1	2995.4	3008.0
7.5°	2995.4	3008.0	2991.3	2987.1	2978.8	2962.1	2957.9	2920.4	2924.5	2924.5	2932.9
10°	2987.1	2982.9	2957.9	2937.0	2912.0	2907.8	2895.3	2887.0	2887.0	2882.8	2895.3
12.5°	2987.1	2966.2	2962.1	2916.2	2874.5	2891.1	2857.8	2836.9	2866.1	2874.5	2891.1
15°	2982.9	3003.8	2932.9	2912.0	2882.8	2887.0	2857.8	2836.9	2853.6	2861.9	2874.5
17.5°	3008.0	2995.4	2974.6	2932.9	2920.4	2903.7	2866.1	2849.4	2849.4	2870.3	2874.5
20°	3074.7	3041.3	2999.6	2978.8	2991.3	2970.4	2924.5	2861.9	2878.6	2895.3	2907.8
22.5°	3137.3	3112.3	3083.1	3070.5	3141.5	3108.1	3028.8	2957.9	2932.9	2962.1	2982.9
25°	3258.3	3258.3	3204.0	3220.7	3300.0	3304.2	3212.4	3087.2	3070.5	3083.1	3091.4
27.5°	3504.4	3516.9	3471.0	3487.7	3521.1	3550.3	3471.0	3366.7	3329.2	3325.0	3337.5
30°	3771.4	3796.5	3792.3	3863.2	3959.2	3975.8	3859.0	3688.0	3575.3	3554.5	3571.2
32.5°	4121.9	4134.4	4126.0	4209.5	4468.1	4589.1	4284.6	4042.6	3892.4	3930.0	3892.4
35°	4781.0	4768.5	4676.7	4693.4	4906.2	4993.8	4701.8	4547.4	4476.5	4551.6	4534.9
37.5°	5348.4	5302.5	5227.4	5335.9	5557.0	5636.3	5331.7	5060.6	4931.2	5056.4	5110.6
40°	5828.2	5711.4	5607.1	5715.5	6011.8	6120.2	5673.8	5452.7	5402.6	5494.4	5611.2
42.5°	6232.9	6157.8	6020.1	6028.4	6224.5	6274.6	5915.8	5786.5	5736.4	5882.4	5940.8
45°	6520.7	6449.8	6320.5	6312.1	6462.3	6428.9	6107.7	6020.1	6049.3	6145.3	6174.5
47.5°	6666.7	6704.3	6629.2	6650.1	6729.3	6650.1	6395.6	6395.6	6328.8	6387.2	6358.0
50°	7088.1	6971.3	7067.2	7067.2	7150.7	7159.0	6904.5	6812.8	6633.4	6533.2	6533.2
52.5°	7580.4	7588.7	7626.3	7764.0	7905.8	8026.8	7663.8	7271.7	6971.3	6842.0	6825.3
55°	7985.1	8068.5	8218.7	8477.4	8886.2	9053.1	8427.3	7726.4	7359.3	7159.0	7117.3
56°	8206.2	8126.9	8385.6	8740.2	9274.2	9491.1	8552.5	7818.2	7413.5	7188.2	7184.1
57.5°	7993.4	8081.0	8260.4	8819.5	9474.5	9758.1	8598.3	7776.5	7196.6	6967.1	6988.0
60°	6312.1	6395.6	6637.5	7263.3	8289.6	8510.7	7275.8	6412.3	5894.9	5565.4	5569.5
62.5°	3571.2	3633.8	3821.5	4401.4	5039.7	5252.5	4534.9	3959.2	3600.4	3416.8	3358.4
65°	1314.2	1289.1	1318.3	1614.5	2006.7	2186.1	1885.7	1593.7	1405.9	1339.2	1314.2
67.5°	492.3	454.7	425.5	454.7	571.6	604.9	554.9	463.1	433.9	446.4	454.7
70°	304.6	287.9	229.5	216.9	212.8	208.6	221.1	233.6	267.0	312.9	321.2
72.5°	212.8	200.3	162.7	154.4	146.0	141.8	162.7	179.4	208.6	242.0	246.1
75°	83.4	87.6	83.4	91.8	96.0	100.1	116.8	129.3	141.8	141.8	137.7
77.5°	16.7	16.7	25.0	33.4	41.7	54.2	79.3	91.8	96.0	91.8	79.3
80°	0.0	0.0	8.3	16.7	33.4	45.9	70.9	79.3	87.6	79.3	62.6
82.5°	0.0	0.0	8.3	20.9	33.4	41.7	66.8	83.4	96.0	87.6	66.8
85°	0.0	0.0	8.3	16.7	25.0	29.2	29.2	20.9	20.9	12.5	8.3
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)