

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: P531735

Luminaire Tested: **GALN-SA7A-740-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531735
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-SA7A-740-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 615mA 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: 16615 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

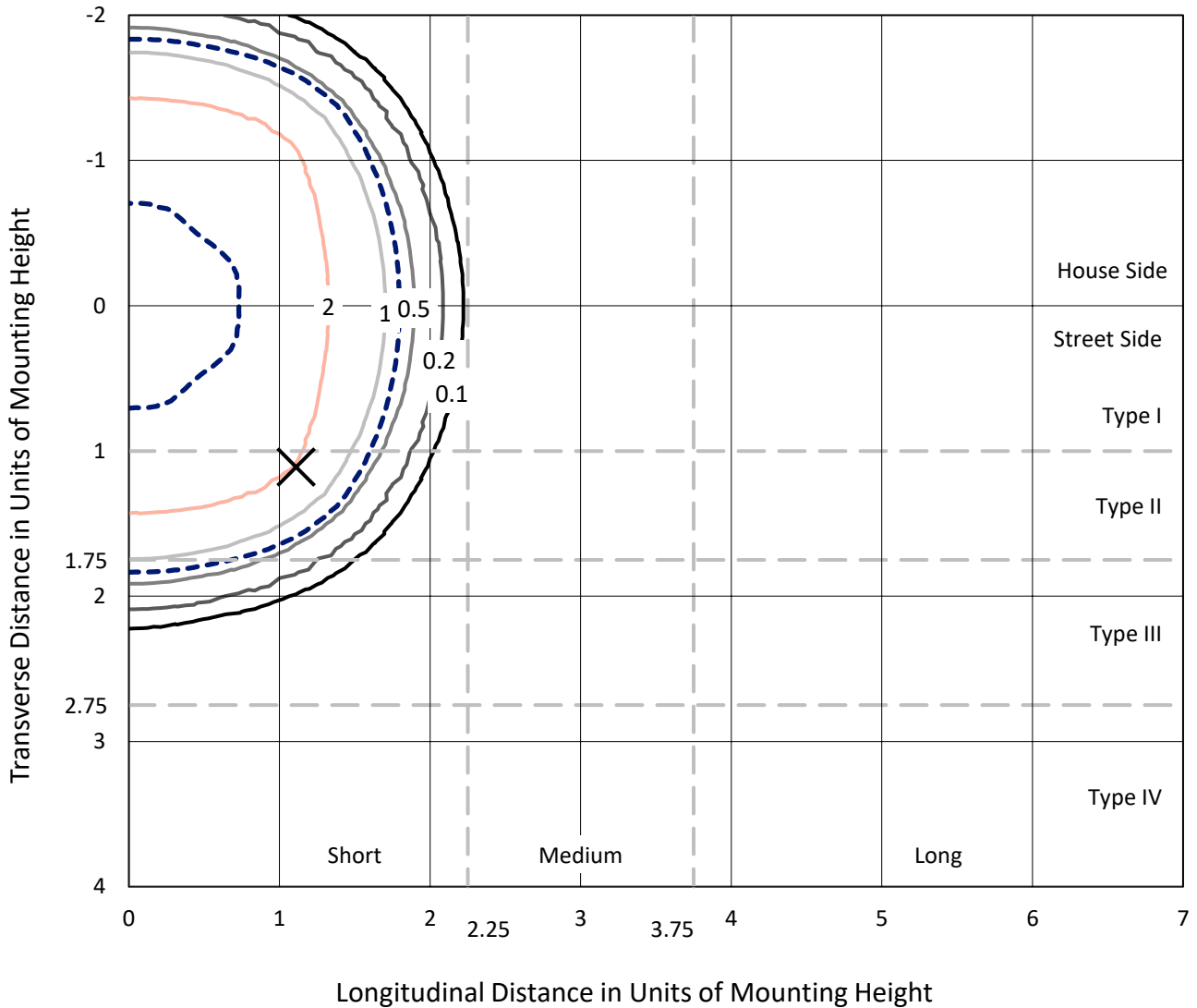
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

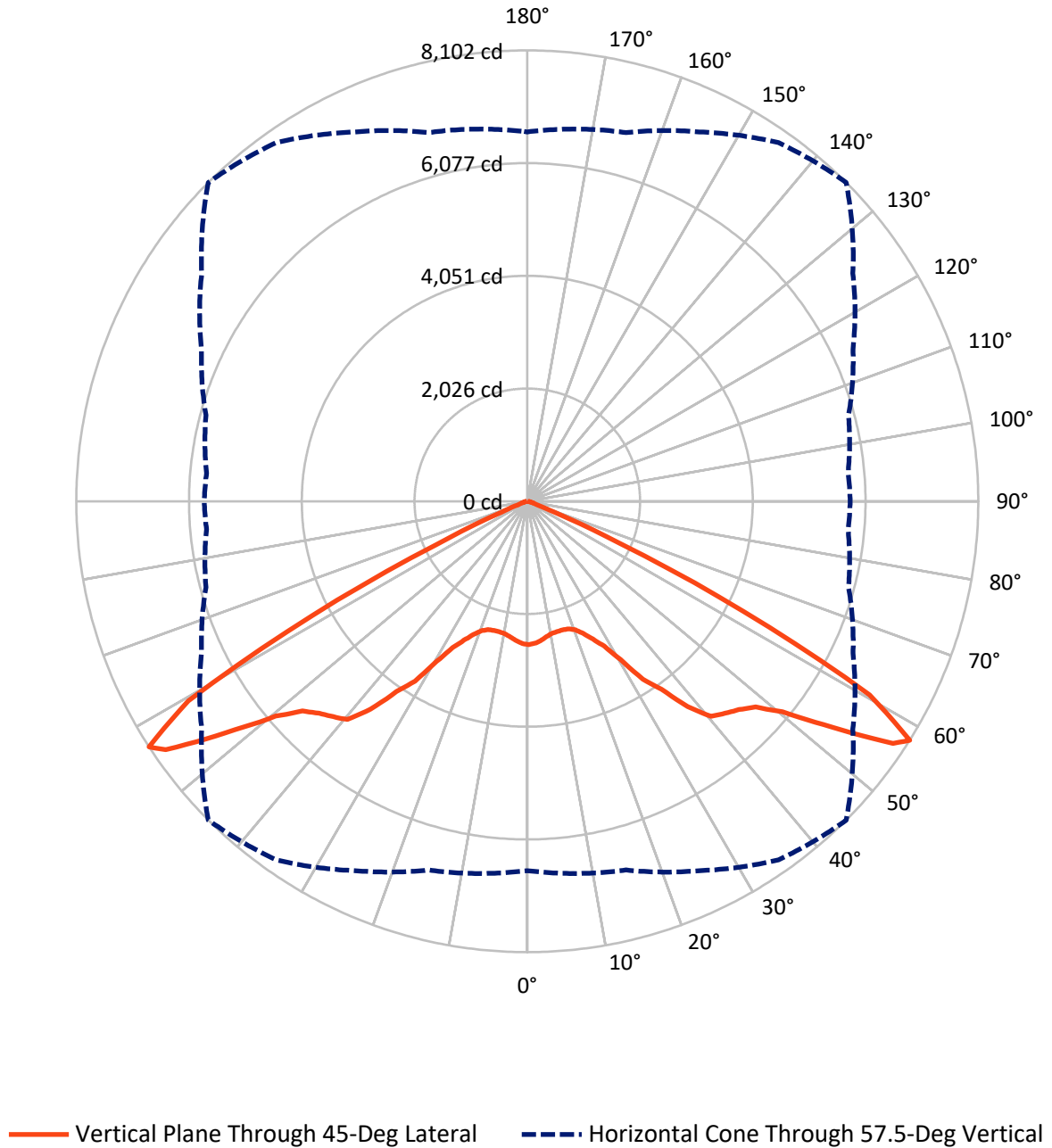
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	8307.5	0.0	8307.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8307.5	0.0	8307.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	16615.0	0.0	16615.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.8	1.4
10°-20°	684.5	4.1
20°-30°	1263.6	7.6
30°-40°	2485.0	15.0
40°-50°	4047.3	24.4
50°-60°	5772.0	34.7
60°-70°	1998.4	12.0
70°-80°	107.2	0.6
80°-90°	20.1	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°	16615.0	100.0
0°-180°	16615.0	100.0

Coefficient of Utilization

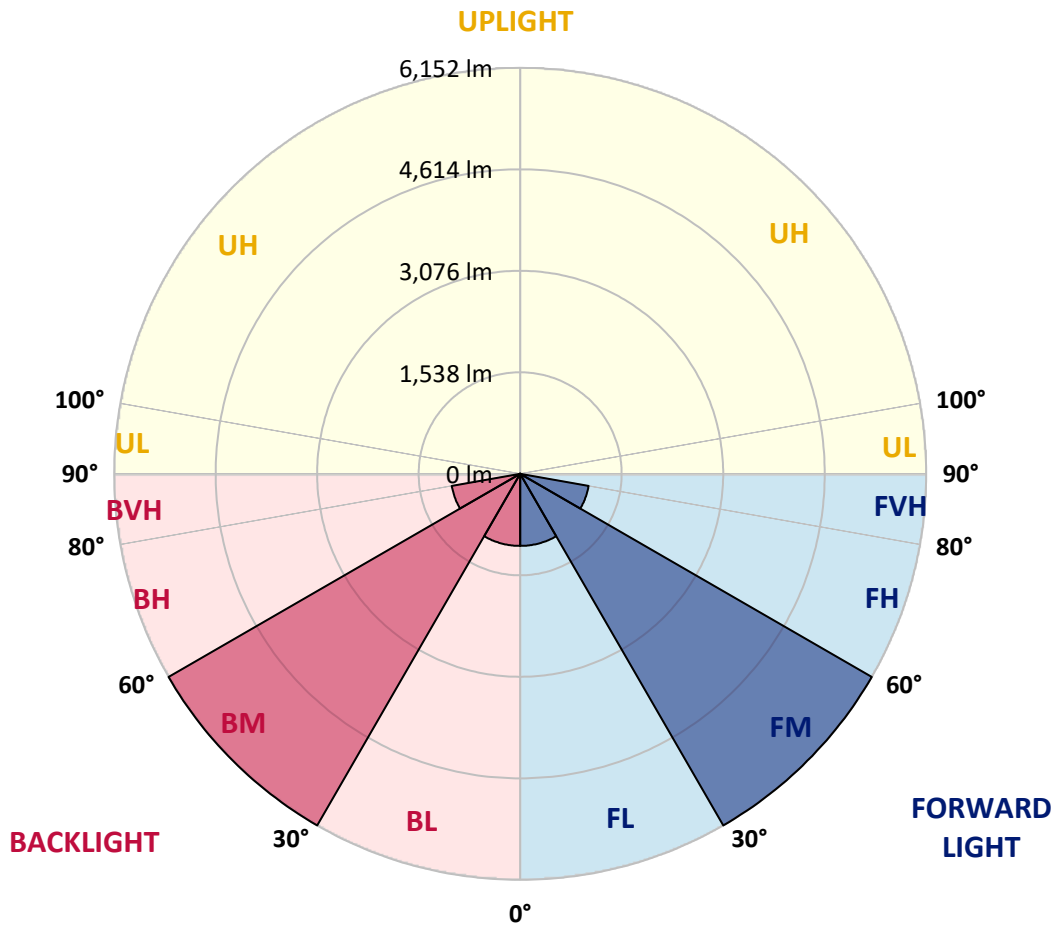


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1092.5	6.6			
FM (30°-60°)	6152.2	37.0			
FH (60°-80°)	1052.8	6.3			G1/1800
FVH (80°-90°)	10.1	0.1			G1/100
BL (0°-30°)	1092.5	6.6	B3/2500		
BM (30°-60°)	6152.2	37.0	B4/8500		
BH (60°-80°)	1052.8	6.3	B3/2500		G1/1800
BVH (80°-90°)	10.1	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°	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2	2577.2
2.5°	2570.2	2584.1	2566.8	2559.8	2556.4	2556.4	2546.0	2546.0	2542.5	2546.0	2532.1
5°	2528.7	2542.5	2542.5	2539.1	2518.3	2514.8	2504.4	2497.5	2501.0	2487.1	2497.5
7.5°	2487.1	2497.5	2483.6	2480.2	2473.2	2459.4	2455.9	2424.7	2428.2	2428.2	2435.1
10°	2480.2	2476.7	2455.9	2438.6	2417.8	2414.4	2404.0	2397.0	2397.0	2393.6	2404.0
12.5°	2480.2	2462.9	2459.4	2421.3	2386.6	2400.5	2372.8	2355.5	2379.7	2386.6	2400.5
15°	2476.7	2494.0	2435.1	2417.8	2393.6	2397.0	2372.8	2355.5	2369.3	2376.3	2386.6
17.5°	2497.5	2487.1	2469.8	2435.1	2424.7	2410.9	2379.7	2365.9	2365.9	2383.2	2386.6
20°	2552.9	2525.2	2490.6	2473.2	2483.6	2466.3	2428.2	2376.3	2390.1	2404.0	2414.4
22.5°	2604.9	2584.1	2559.8	2549.4	2608.3	2580.6	2514.8	2455.9	2435.1	2459.4	2476.7
25°	2705.3	2705.3	2660.3	2674.2	2740.0	2743.4	2667.2	2563.3	2549.4	2559.8	2566.8
27.5°	2909.7	2920.1	2882.0	2895.8	2923.6	2947.8	2882.0	2795.4	2764.2	2760.7	2771.1
30°	3131.4	3152.2	3148.7	3207.6	3287.3	3301.1	3204.1	3062.1	2968.6	2951.3	2965.1
32.5°	3422.4	3432.8	3425.8	3495.1	3709.9	3810.3	3557.5	3356.5	3231.8	3263.0	3231.8
35°	3969.7	3959.3	3883.1	3896.9	4073.6	4146.3	3903.8	3775.7	3716.8	3779.1	3765.3
37.5°	4440.8	4402.6	4340.3	4430.4	4613.9	4679.8	4426.9	4201.7	4094.4	4198.3	4243.3
40°	4839.1	4742.1	4655.5	4745.6	4991.5	5081.6	4710.9	4527.4	4485.8	4562.0	4659.0
42.5°	5175.1	5112.8	4998.4	5005.4	5168.2	5209.7	4911.8	4804.5	4762.9	4884.1	4932.6
45°	5414.1	5355.2	5247.8	5240.9	5365.6	5337.9	5071.2	4998.4	5022.7	5102.4	5126.6
47.5°	5535.4	5566.5	5504.2	5521.5	5587.3	5521.5	5310.2	5310.2	5254.8	5303.3	5279.0
50°	5885.2	5788.2	5867.9	5867.9	5937.2	5944.1	5732.8	5656.6	5507.6	5424.5	5424.5
52.5°	6294.0	6300.9	6332.1	6446.4	6564.1	6664.6	6363.2	6037.6	5788.2	5680.8	5667.0
55°	6630.0	6699.2	6823.9	7038.7	7378.2	7516.7	6997.1	6415.2	6110.4	5944.1	5909.5
56°	6813.5	6747.7	6962.5	7256.9	7700.3	7880.4	7101.0	6491.4	6155.4	5968.3	5964.9
57.5°	6636.9	6709.6	6858.6	7322.7	7866.6	8102.1	7139.2	6456.8	5975.3	5784.8	5802.1
60°	5240.9	5310.2	5511.1	6030.7	6882.8	7066.4	6041.1	5324.1	4894.5	4620.9	4624.3
62.5°	2965.1	3017.1	3173.0	3654.4	4184.4	4361.1	3765.3	3287.3	2989.4	2837.0	2788.5
65°	1091.1	1070.4	1094.6	1340.5	1666.1	1815.1	1565.7	1323.2	1167.3	1111.9	1091.1
67.5°	408.7	377.6	353.3	377.6	474.6	502.3	460.7	384.5	360.2	370.6	377.6
70°	252.9	239.0	190.5	180.1	176.7	173.2	183.6	194.0	221.7	259.8	266.7
72.5°	176.7	166.3	135.1	128.2	121.2	117.8	135.1	148.9	173.2	200.9	204.4
75°	69.3	72.7	69.3	76.2	79.7	83.1	97.0	107.4	117.8	117.8	114.3
77.5°	13.9	13.9	20.8	27.7	34.6	45.0	65.8	76.2	79.7	76.2	65.8
80°	0.0	0.0	6.9	13.9	27.7	38.1	58.9	65.8	72.7	65.8	52.0
82.5°	0.0	0.0	6.9	17.3	27.7	34.6	55.4	69.3	79.7	72.7	55.4
85°	0.0	0.0	6.9	13.9	20.8	24.2	24.2	17.3	17.3	10.4	6.9
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)