

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: P532515

Luminaire Tested: **GALN-SA7D-827-U-5WQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532515
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-SA7D-827-U-5WQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 20661 lumens
Efficiency: N/A
Efficacy: 47.7 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

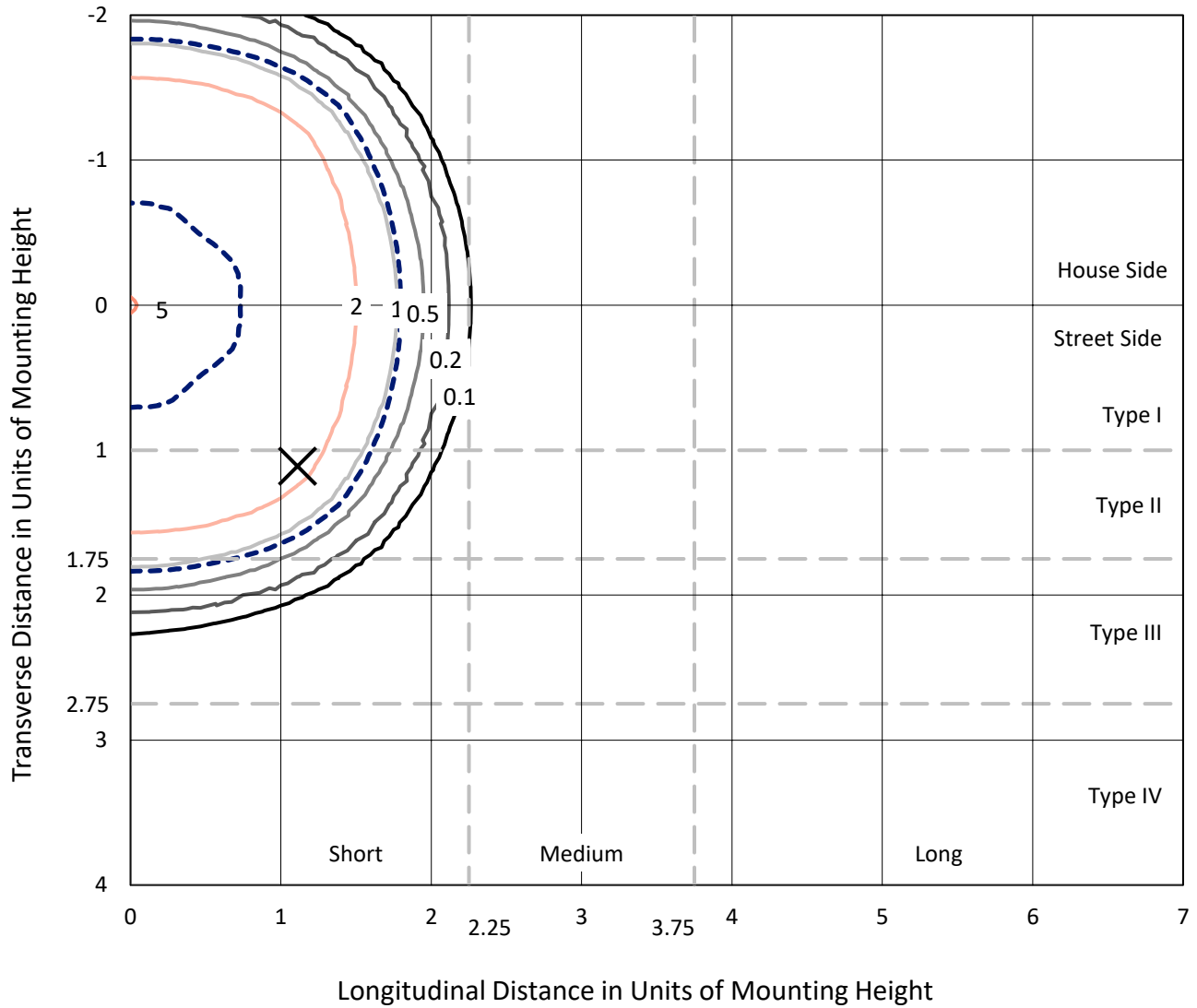
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

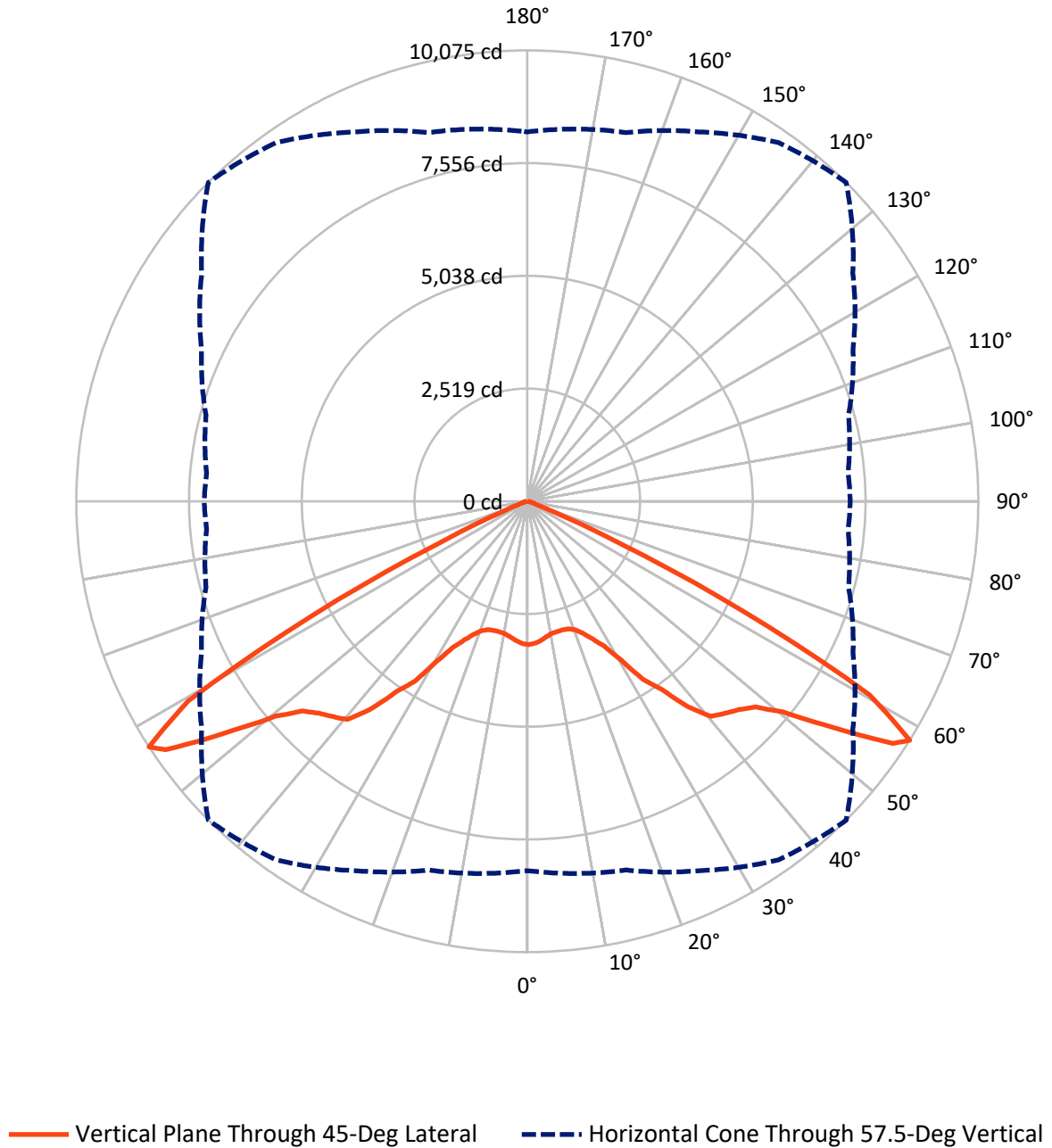
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	10330.5	0.0	10330.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10330.5	0.0	10330.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	20661.0	0.0	20661.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.5	1.4
10°-20°	851.2	4.1
20°-30°	1571.3	7.6
30°-40°	3090.1	15.0
40°-50°	5032.9	24.4
50°-60°	7177.6	34.7
60°-70°	2485.1	12.0
70°-80°	133.3	0.6
80°-90°	25.0	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°	20661.0	100.0
0°-180°	20661.0	100.0

Coefficient of Utilization



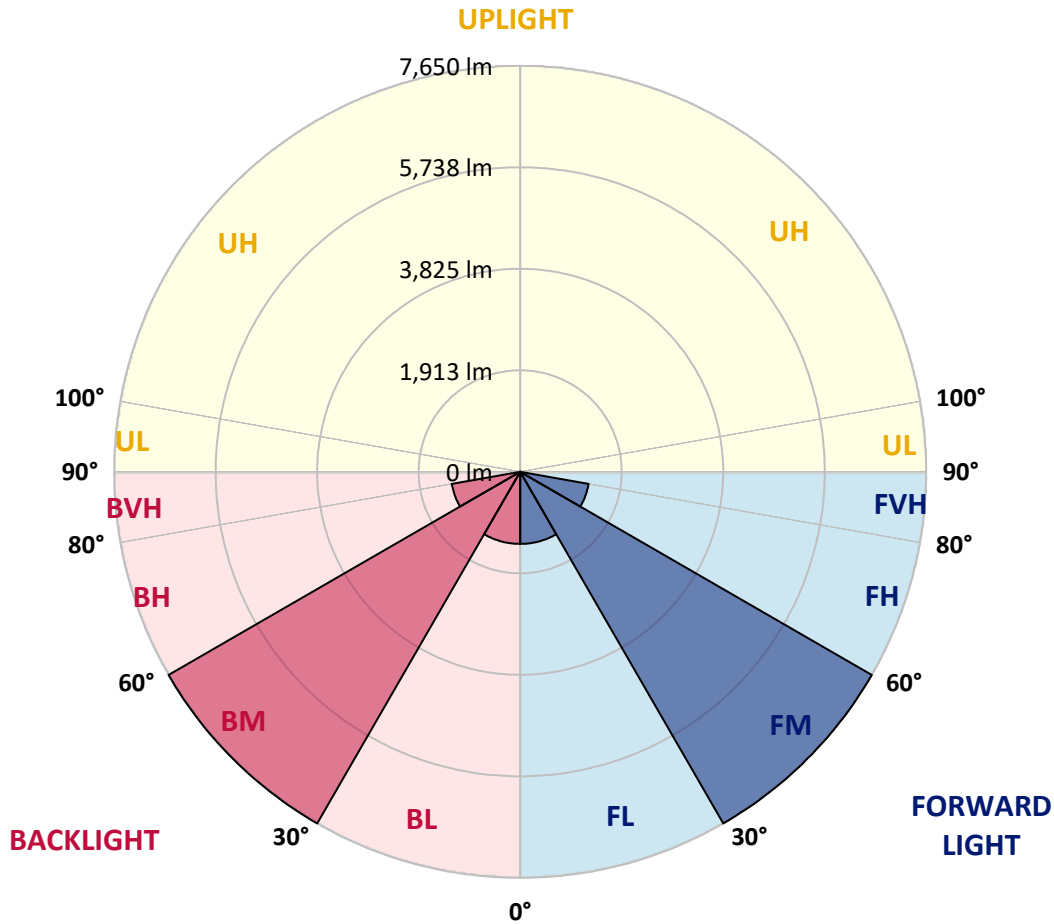
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1358.5	6.6			
FM (30°-60°)	7650.3	37.0			
FH (60°-80°)	1309.2	6.3			G1/1800
FVH (80°-90°)	12.5	0.1			G1/100
BL (0°-30°)	1358.5	6.6	B3/2500		
BM (30°-60°)	7650.3	37.0	B4/8500		
BH (60°-80°)	1309.2	6.3	B3/2500		G1/1800
BVH (80°-90°)	12.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7	3204.7
2.5°	3196.1	3213.4	3191.8	3183.2	3178.9	3178.9	3166.0	3166.0	3161.7	3166.0	3148.7
5°	3144.4	3161.7	3161.7	3157.4	3131.5	3127.2	3114.3	3105.7	3110.0	3092.7	3105.7
7.5°	3092.7	3105.7	3088.4	3084.1	3075.5	3058.3	3054.0	3015.2	3019.5	3019.5	3028.1
10°	3084.1	3079.8	3054.0	3032.4	3006.6	3002.3	2989.4	2980.8	2980.8	2976.4	2989.4
12.5°	3084.1	3062.6	3058.3	3010.9	2967.8	2985.1	2950.6	2929.1	2959.2	2967.8	2985.1
15°	3079.8	3101.4	3028.1	3006.6	2976.4	2980.8	2950.6	2929.1	2946.3	2954.9	2967.8
17.5°	3105.7	3092.7	3071.2	3028.1	3015.2	2998.0	2959.2	2942.0	2942.0	2963.5	2967.8
20°	3174.6	3140.1	3097.1	3075.5	3088.4	3066.9	3019.5	2954.9	2972.1	2989.4	3002.3
22.5°	3239.2	3213.4	3183.2	3170.3	3243.5	3209.0	3127.2	3054.0	3028.1	3058.3	3079.8
25°	3364.1	3364.1	3308.1	3325.3	3407.2	3411.5	3316.7	3187.5	3170.3	3183.2	3191.8
27.5°	3618.3	3631.2	3583.8	3601.0	3635.5	3665.6	3583.8	3476.1	3437.3	3433.0	3446.0
30°	3893.9	3919.8	3915.5	3988.7	4087.8	4105.0	3984.4	3807.8	3691.5	3669.9	3687.2
32.5°	4255.8	4268.7	4260.1	4346.2	4613.3	4738.2	4423.7	4173.9	4018.8	4057.6	4018.8
35°	4936.3	4923.4	4828.6	4845.9	5065.6	5156.0	4854.5	4695.1	4621.9	4699.4	4682.2
37.5°	5522.1	5474.8	5397.2	5509.2	5737.5	5819.4	5504.9	5224.9	5091.4	5220.6	5276.6
40°	6017.5	5896.9	5789.2	5901.2	6207.0	6319.0	5858.1	5629.8	5578.1	5672.9	5793.5
42.5°	6435.3	6357.8	6215.6	6224.3	6426.7	6478.4	6108.0	5974.4	5922.7	6073.5	6133.8
45°	6732.5	6659.3	6525.8	6517.2	6672.2	6637.8	6306.1	6215.6	6245.8	6344.9	6375.0
47.5°	6883.3	6922.1	6844.5	6866.1	6947.9	6866.1	6603.3	6603.3	6534.4	6594.7	6564.5
50°	7318.3	7197.7	7296.8	7296.8	7383.0	7391.6	7128.8	7034.1	6848.8	6745.5	6745.5
52.5°	7826.6	7835.2	7874.0	8016.2	8162.6	8287.5	7912.8	7507.9	7197.7	7064.2	7047.0
55°	8244.4	8330.6	8485.7	8752.7	9174.9	9347.2	8701.0	7977.4	7598.3	7391.6	7348.5
56°	8472.7	8390.9	8658.0	9024.1	9575.4	9799.4	8830.3	8072.1	7654.3	7421.7	7417.4
57.5°	8253.1	8343.5	8528.7	9105.9	9782.2	10075.1	8877.6	8029.1	7430.3	7193.4	7215.0
60°	6517.2	6603.3	6853.1	7499.3	8558.9	8787.2	7512.2	6620.5	6086.4	5746.1	5750.4
62.5°	3687.2	3751.8	3945.6	4544.4	5203.4	5423.1	4682.2	4087.8	3717.3	3527.8	3467.5
65°	1356.8	1331.0	1361.2	1667.0	2071.9	2257.1	1947.0	1645.4	1451.6	1382.7	1356.8
67.5°	508.3	469.5	439.4	469.5	590.1	624.6	572.9	478.1	448.0	460.9	469.5
70°	314.4	297.2	236.9	224.0	219.7	215.4	228.3	241.2	275.7	323.1	331.7
72.5°	219.7	206.8	168.0	159.4	150.8	146.5	168.0	185.2	215.4	249.8	254.1
75°	86.1	90.5	86.1	94.8	99.1	103.4	120.6	133.5	146.5	146.5	142.1
77.5°	17.2	17.2	25.8	34.5	43.1	56.0	81.8	94.8	99.1	94.8	81.8
80°	0.0	0.0	8.6	17.2	34.5	47.4	73.2	81.8	90.5	81.8	64.6
82.5°	0.0	0.0	8.6	21.5	34.5	43.1	68.9	86.1	99.1	90.5	68.9
85°	0.0	0.0	8.6	17.2	25.8	30.2	30.2	21.5	21.5	12.9	8.6
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)