

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: P529472

Luminaire Tested: **GALN-SA4C-827-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529472
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-SA4C-827-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA 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: 18415 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

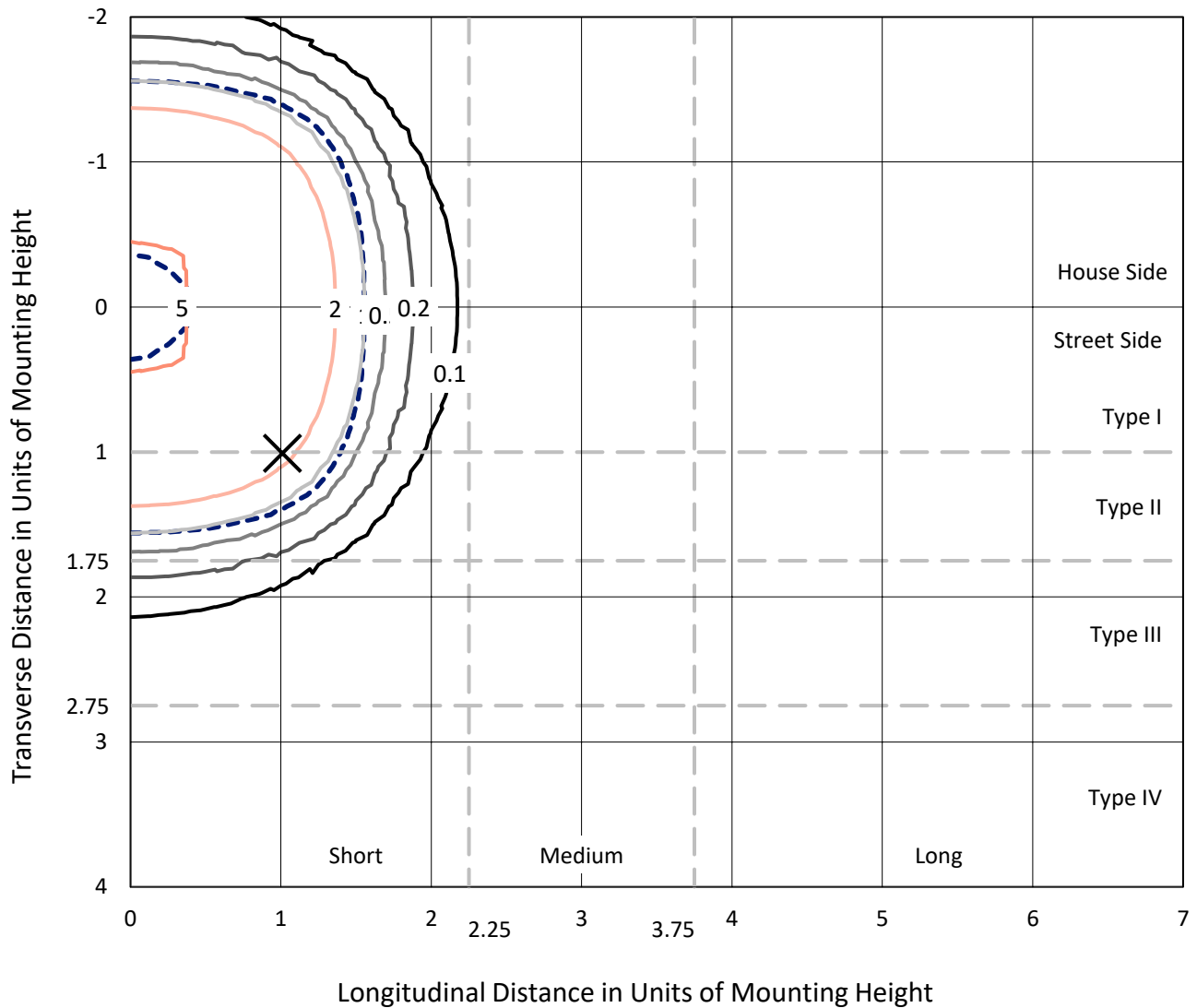
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

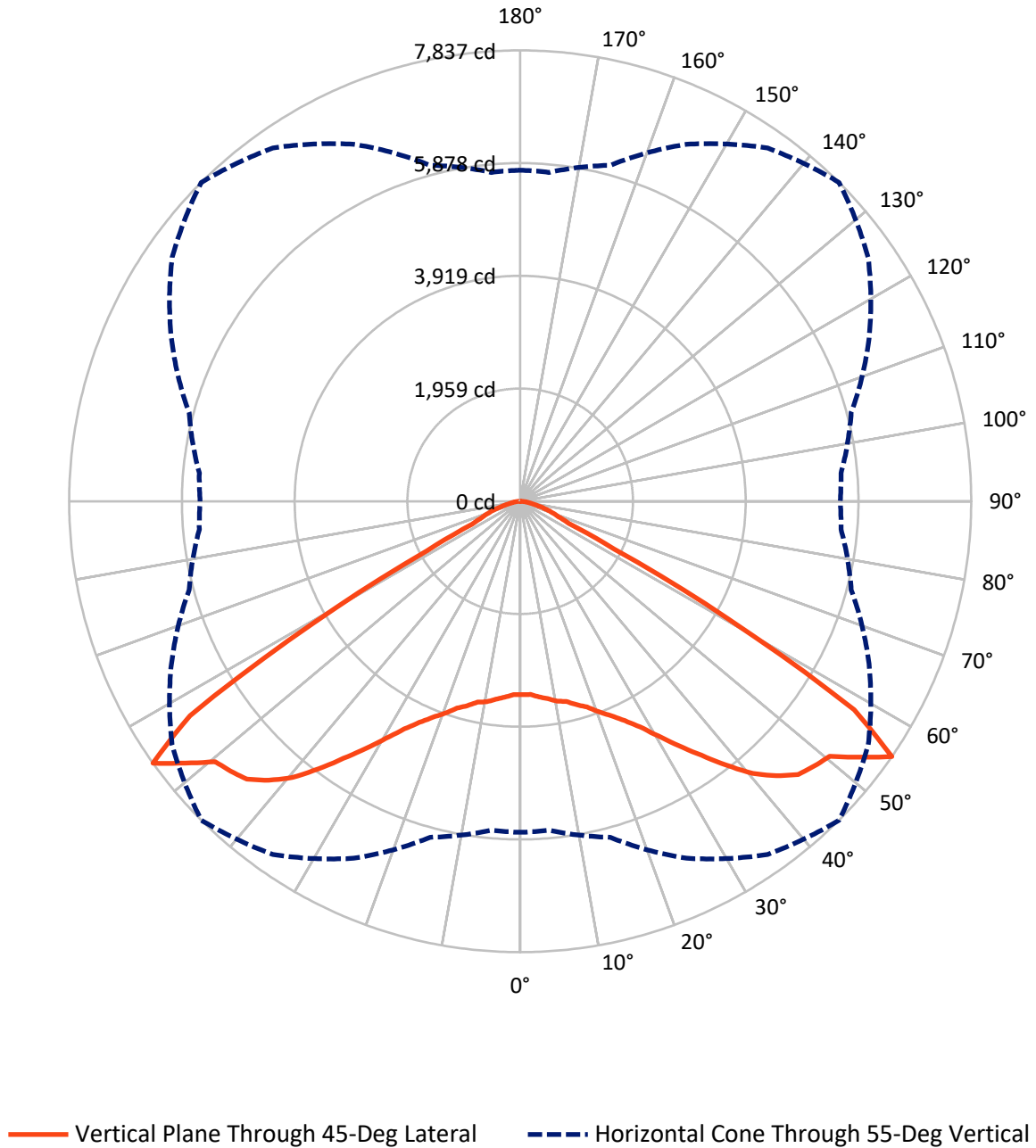
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	9207.5	0.0	9207.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9207.5	0.0	9207.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18415.0	0.0	18415.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.5	1.8
10°-20°	1040.7	5.7
20°-30°	1940.7	10.5
30°-40°	3249.3	17.6
40°-50°	5056.2	27.5
50°-60°	5249.9	28.5
60°-70°	1113.3	6.0
70°-80°	366.7	2.0
80°-90°	69.8	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°	18415.0	100.0
0°-180°	18415.0	100.0

Coefficient of Utilization

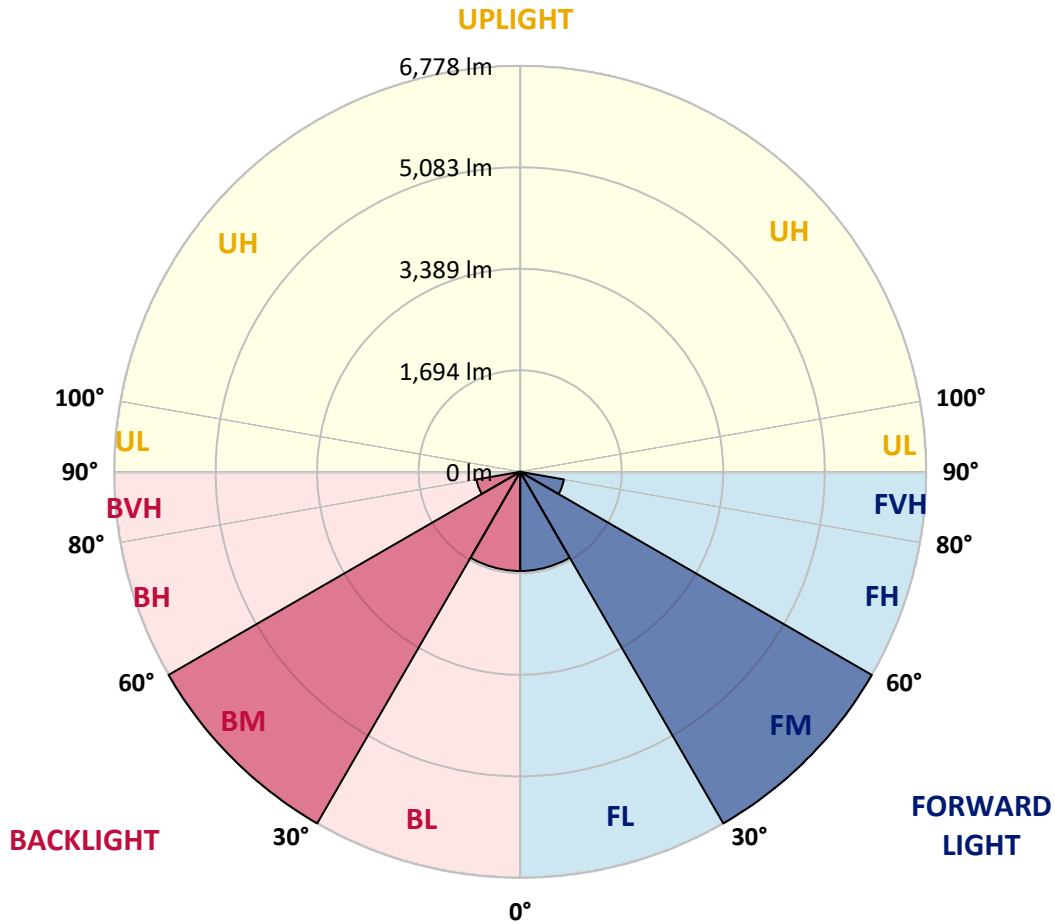


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1654.9	9.0			
FM (30°-60°)	6777.7	36.8			
FH (60°-80°)	740.0	4.0			G1/1800
FVH (80°-90°)	34.9	0.2			G1/100
BL (0°-30°)	1654.9	9.0	B3/2500		
BM (30°-60°)	6777.7	36.8	B4/8500		
BH (60°-80°)	740.0	4.0	B2/1000		G1/1800
BVH (80°-90°)	34.9	0.2			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°	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3	3362.3
2.5°	3402.4	3386.8	3360.1	3380.1	3395.7	3362.3	3375.7	3382.3	3377.9	3360.1	3366.8
5°	3451.3	3442.4	3420.2	3435.7	3415.7	3415.7	3402.4	3384.6	3411.3	3406.8	3417.9
7.5°	3451.3	3440.2	3484.7	3455.8	3464.7	3464.7	3442.4	3424.6	3438.0	3417.9	3406.8
10°	3520.3	3535.9	3515.8	3522.5	3518.1	3533.6	3500.3	3489.1	3478.0	3471.3	3458.0
12.5°	3602.6	3591.5	3598.2	3593.7	3609.3	3569.2	3549.2	3524.7	3544.8	3515.8	3535.9
15°	3669.4	3662.7	3669.4	3687.2	3671.6	3669.4	3633.8	3609.3	3578.2	3584.8	3553.7
17.5°	3760.6	3753.9	3756.2	3771.7	3769.5	3758.4	3731.7	3685.0	3673.8	3656.0	3636.0
20°	3896.4	3885.2	3880.8	3887.5	3898.6	3907.5	3854.1	3836.3	3798.4	3769.5	3736.1
22.5°	4012.1	4007.6	4025.4	3996.5	4021.0	4047.7	3996.5	3987.6	3894.1	3878.6	3843.0
25°	4172.3	4165.6	4154.5	4196.8	4225.7	4223.5	4174.5	4125.6	4054.3	4036.5	4036.5
27.5°	4341.4	4303.6	4361.4	4372.6	4423.7	4439.3	4397.0	4325.8	4259.1	4221.2	4230.1
30°	4552.8	4517.2	4530.5	4610.7	4677.4	4735.3	4628.5	4523.9	4430.4	4363.7	4352.5
32.5°	4764.2	4728.6	4768.6	4846.5	4980.0	5066.8	4962.2	4779.8	4670.7	4572.8	4592.8
35°	4935.5	4962.2	5026.8	5144.7	5282.7	5422.9	5256.0	5115.8	4960.0	4851.0	4866.6
37.5°	5211.5	5293.8	5345.0	5480.7	5676.5	5821.2	5647.6	5465.1	5298.2	5155.8	5106.9
40°	5571.9	5627.6	5685.4	5845.6	6077.1	6221.7	6057.0	5818.9	5654.3	5507.4	5500.7
42.5°	5968.0	6021.4	6081.5	6277.3	6415.3	6524.3	6373.0	6246.2	6063.7	5948.0	5941.3
45°	6428.7	6390.8	6457.6	6586.6	6702.4	6773.6	6675.7	6613.3	6482.1	6375.2	6364.1
47.5°	6735.7	6702.4	6822.5	6938.2	6956.0	6878.1	6898.2	6956.0	6818.1	6642.3	6697.9
50°	6913.8	6913.8	6993.9	7100.7	7067.3	6967.2	7125.1	7129.6	6991.6	6835.9	6835.9
52.5°	6604.4	6673.4	6900.4	7249.8	7361.0	7389.9	7354.3	7203.0	6842.5	6524.3	6508.8
55°	5754.4	5738.8	6045.9	6847.0	7494.5	7837.2	7383.3	6686.8	5954.7	5596.4	5560.8
57.5°	3742.8	3760.6	4219.0	5035.7	6203.9	6842.5	6077.1	5098.0	4219.0	3725.0	3771.7
60°	1684.5	1744.6	2022.7	2632.4	3636.0	4156.7	3644.9	2765.9	2122.9	1842.5	1867.0
62.5°	968.0	979.1	990.2	1174.9	1548.8	1831.4	1608.8	1241.7	1094.8	1045.9	1045.9
65°	816.7	810.0	812.2	827.8	867.8	925.7	901.2	867.8	872.3	867.8	861.2
67.5°	694.3	703.2	696.5	707.6	709.8	718.7	734.3	747.7	749.9	754.3	749.9
70°	569.7	571.9	576.3	585.2	587.5	594.1	616.4	627.5	634.2	634.2	643.1
72.5°	436.1	433.9	438.4	447.3	458.4	460.6	480.6	496.2	505.1	494.0	496.2
75°	287.1	289.3	296.0	302.6	318.2	333.8	340.5	356.0	358.3	362.7	351.6
77.5°	171.3	175.8	182.5	195.8	209.2	222.5	238.1	249.2	253.7	249.2	235.9
80°	111.3	111.3	120.2	131.3	146.9	158.0	166.9	175.8	182.5	175.8	171.3
82.5°	69.0	69.0	80.1	93.5	104.6	111.3	124.6	135.7	142.4	138.0	131.3
85°	35.6	37.8	46.7	57.9	66.8	71.2	69.0	62.3	55.6	53.4	49.0
87.5°	11.1	11.1	13.4	13.4	11.1	11.1	13.4	11.1	13.4	13.4	13.4
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)