

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: P456920

Luminaire Tested: **GALN-SA8B-727-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40218 lumens
Efficiency: N/A
Efficacy: 123.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

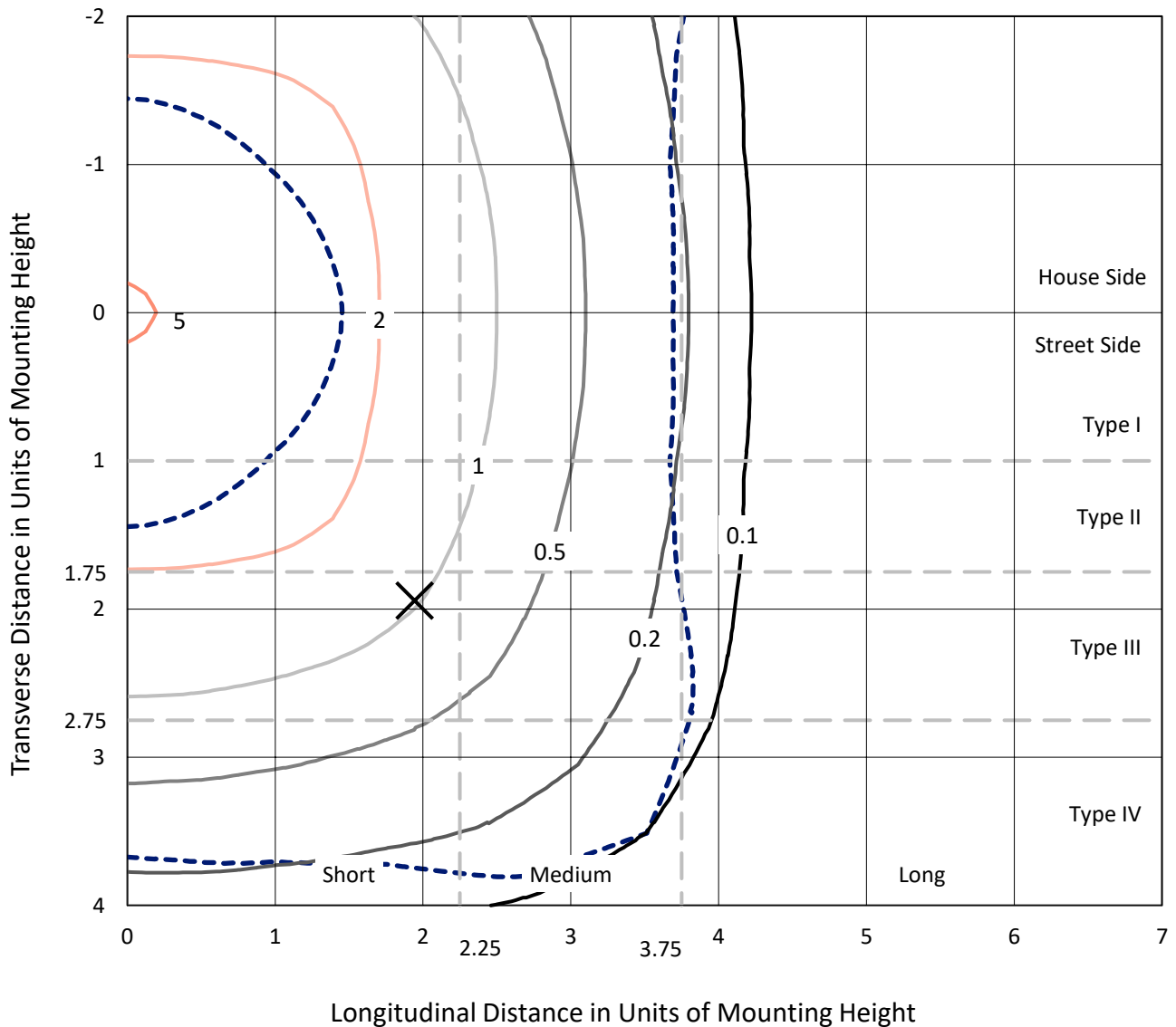
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456920
 CATALOG NUMBER: GALN-SA8B-727-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

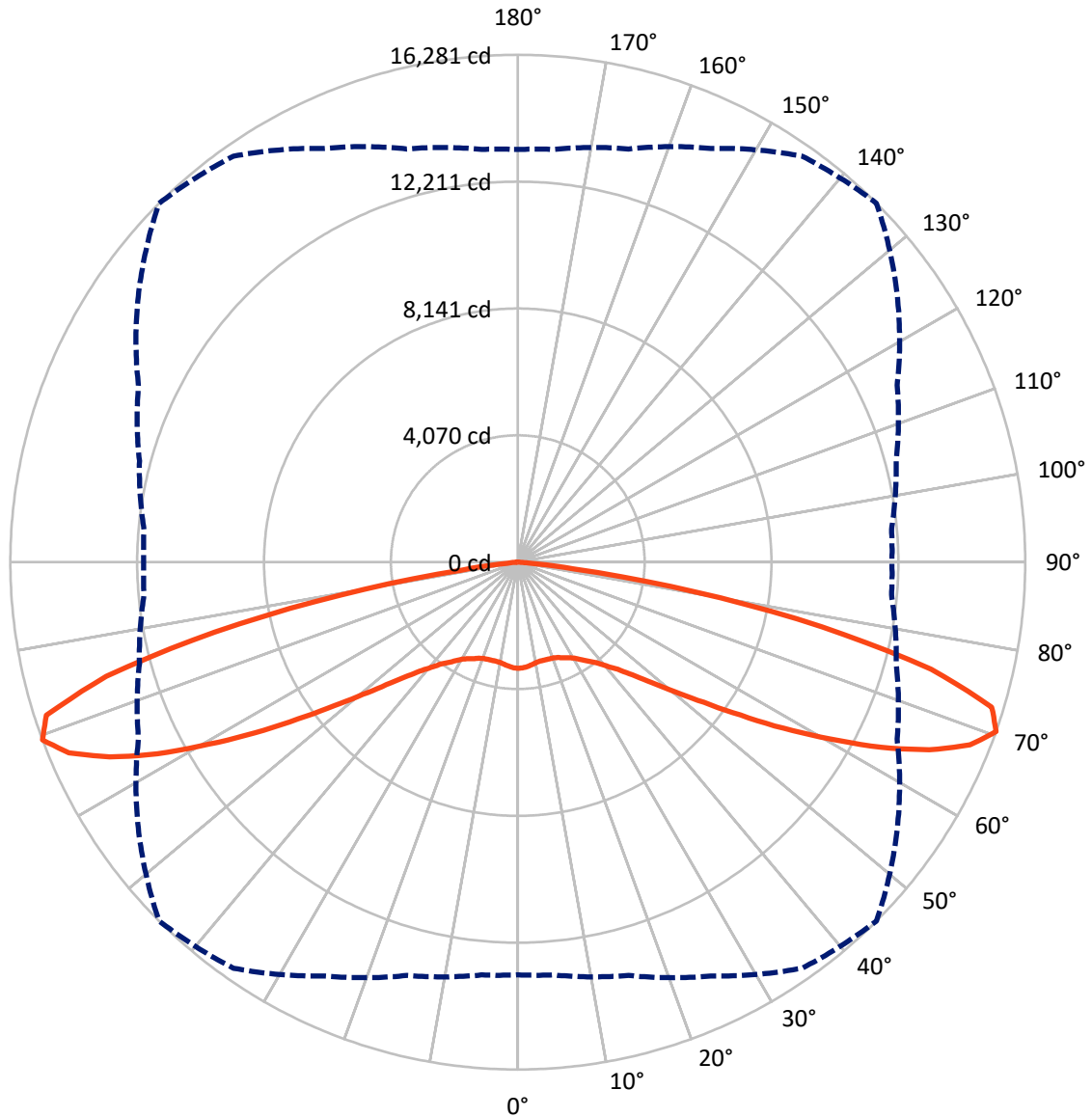
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

REPORT NUMBER: P456920
CATALOG NUMBER: GALN-SA8B-727-U-5WQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20109.0	0.0	20109.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20109.0	0.0	20109.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40218.0	0.0	40218.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.4	0.8
10°-20°	932.2	2.3
20°-30°	1588.3	3.9
30°-40°	2461.8	6.1
40°-50°	4143.6	10.3
50°-60°	7539.0	18.7
60°-70°	12763.4	31.7
70°-80°	9879.3	24.6
80°-90°	592.0	1.5
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°	40218.0	100.0
0°-180°	40218.0	100.0



REPORT NUMBER: P456920

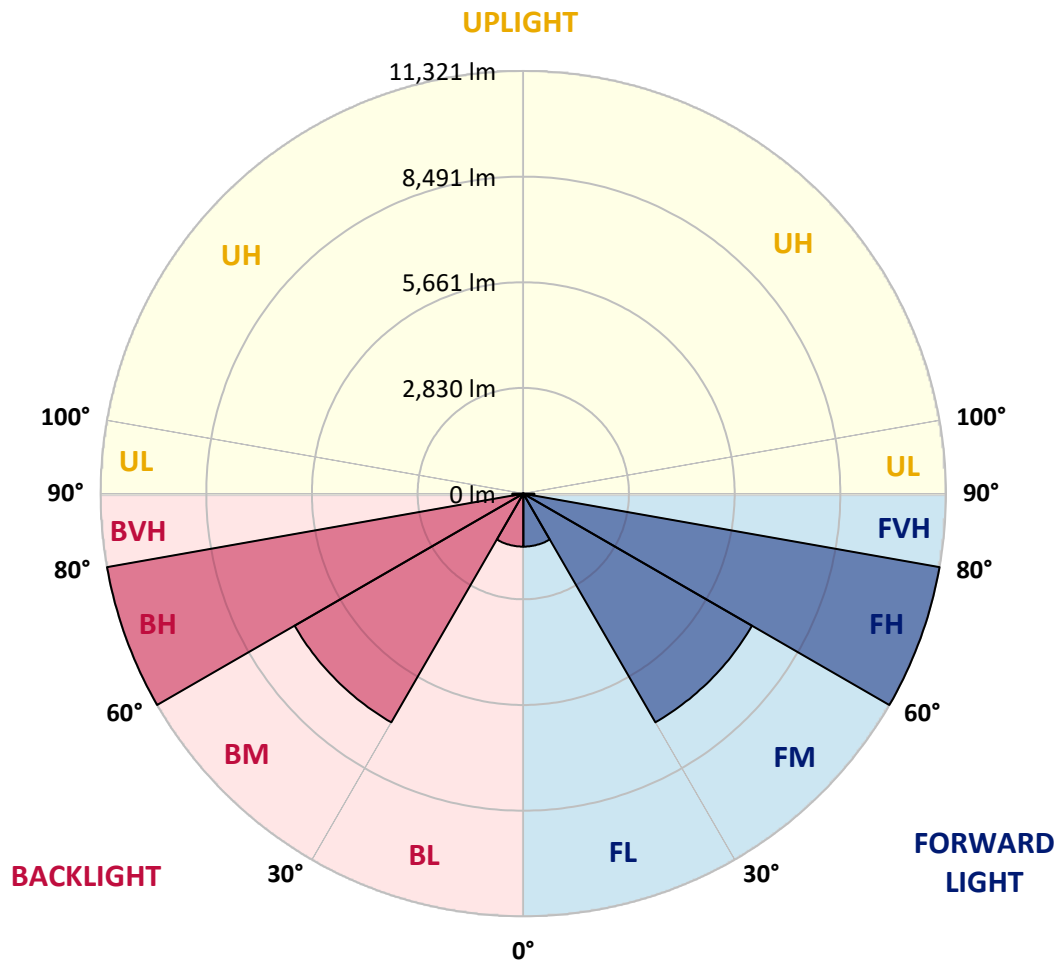
CATALOG NUMBER: GALN-SA8B-727-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1419.5	3.5			
FM (30°-60°)	7072.2	17.6			
FH (60°-80°)	11321.4	28.1			G4/12000
FVH (80°-90°)	296.0	0.7			G3/500
BL (0°-30°)	1419.5	3.5	B3/2500		
BM (30°-60°)	7072.2	17.6	B4/8500		
BH (60°-80°)	11321.4	28.1	B5		G4/12000
BVH (80°-90°)	296.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3404.9	3404.9	3404.9	3404.9	3404.9	3404.9	3404.9	3404.9	3404.9	3404.9	3404.9
2.5°	3396.4	3398.6	3398.6	3394.3	3392.2	3392.2	3390.1	3390.1	3396.4	3398.6	3400.7
5°	3366.7	3366.7	3366.7	3364.6	3360.3	3360.3	3356.1	3356.1	3358.2	3364.6	3360.3
7.5°	3326.4	3330.6	3330.6	3322.1	3315.7	3315.7	3313.6	3315.7	3317.9	3324.2	3322.1
10°	3313.6	3315.7	3305.1	3290.2	3279.6	3273.3	3275.4	3279.6	3290.2	3294.5	3296.6
12.5°	3322.1	3322.1	3303.0	3281.7	3262.6	3254.1	3252.0	3266.9	3286.0	3298.7	3303.0
15°	3332.7	3328.5	3305.1	3277.5	3258.4	3256.3	3254.1	3264.8	3292.4	3317.9	3320.0
17.5°	3339.1	3337.0	3307.2	3273.3	3262.6	3262.6	3260.5	3269.0	3298.7	3330.6	3332.7
20°	3360.3	3354.0	3320.0	3283.9	3275.4	3279.6	3273.3	3283.9	3315.7	3354.0	3362.5
22.5°	3402.8	3396.4	3362.5	3326.4	3322.1	3322.1	3320.0	3330.6	3364.6	3404.9	3411.3
25°	3453.8	3447.4	3415.6	3390.1	3394.3	3402.8	3398.6	3400.7	3428.3	3462.3	3472.9
27.5°	3521.8	3511.2	3483.5	3462.3	3475.0	3475.0	3475.0	3472.9	3489.9	3521.8	3532.4
30°	3604.6	3600.4	3570.6	3568.5	3579.1	3568.5	3568.5	3570.6	3572.8	3602.5	3613.1
32.5°	3712.9	3704.4	3689.6	3685.3	3715.1	3723.6	3693.8	3666.2	3681.1	3710.8	3717.2
35°	3891.4	3878.6	3857.4	3834.0	3857.4	3897.7	3834.0	3812.8	3851.0	3891.4	3895.6
37.5°	4133.5	4127.1	4093.2	4050.7	4048.6	4091.0	4025.2	4023.1	4095.3	4144.1	4150.5
40°	4437.3	4443.6	4401.2	4360.8	4339.6	4373.5	4322.6	4341.7	4411.8	4467.0	4462.8
42.5°	4864.2	4840.8	4775.0	4736.8	4713.4	4700.7	4687.9	4717.6	4796.2	4855.7	4902.4
45°	5363.4	5354.9	5272.0	5225.3	5174.3	5155.2	5151.0	5204.1	5299.7	5371.9	5378.2
47.5°	5928.4	5909.3	5856.2	5807.3	5788.2	5764.8	5743.6	5783.9	5879.5	5930.5	5945.4
50°	6510.4	6514.6	6514.6	6506.1	6525.3	6529.5	6472.2	6487.0	6540.1	6535.9	6531.6
52.5°	7175.2	7198.6	7309.1	7319.7	7411.0	7472.6	7368.5	7306.9	7287.8	7173.1	7181.6
55°	7956.9	7978.2	8143.8	8309.5	8555.9	8660.0	8441.2	8250.0	8114.1	7939.9	7948.4
57.5°	8931.9	8942.5	9099.7	9418.3	9809.1	10053.4	9668.9	9290.9	9014.7	8849.0	8783.2
60°	9981.2	9991.8	10221.2	10609.9	11217.4	11514.8	11039.0	10420.9	10072.5	9819.8	9836.7
62.5°	11240.8	11283.3	11489.3	12024.6	12761.6	13095.1	12464.3	11638.0	11166.4	10852.1	10864.8
65°	12589.6	12661.8	12887.0	13475.3	14155.1	14514.0	13740.9	12787.1	12200.9	11816.4	11856.8
67.5°	13464.7	13528.4	13853.4	14503.4	15350.9	15648.3	14650.0	13539.1	12806.3	12347.4	12262.5
70°	13241.7	13294.8	13728.1	14650.0	15905.3	16281.3	14866.6	13428.6	12566.2	12037.3	12003.3
72.5°	11689.0	11578.5	12211.5	13534.8	15272.3	15903.2	14184.8	12264.6	11179.2	10635.4	10571.7
75°	7746.6	7986.6	8921.3	10480.4	12921.0	13702.6	12107.4	9847.4	8481.6	8029.1	7959.0
77.5°	2589.3	2774.1	3604.6	5941.1	8808.7	9983.3	8821.4	6440.3	4556.2	3670.5	3687.5
80°	686.1	677.6	877.3	1633.4	3806.4	5781.8	4430.9	2181.5	1193.7	864.5	819.9
82.5°	246.4	276.1	354.7	452.4	1009.0	1797.0	1268.1	611.7	448.2	331.4	320.7
85°	108.3	106.2	152.9	180.5	252.8	335.6	297.4	259.1	227.3	150.8	140.2
87.5°	23.4	23.4	36.1	27.6	44.6	44.6	55.2	65.8	68.0	44.6	36.1
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)