

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: P528378

Luminaire Tested: **GALN-SA3C-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15493 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

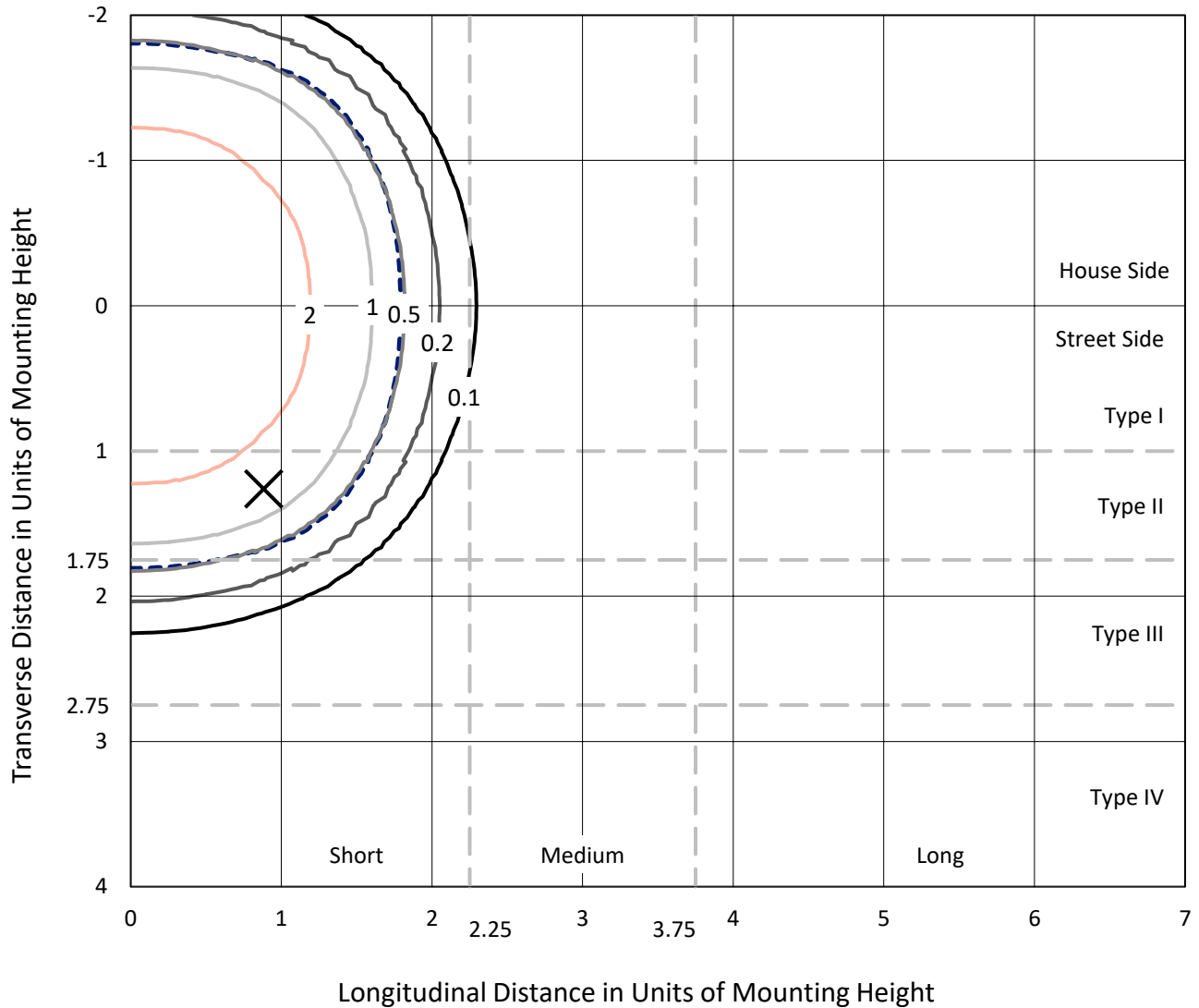
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

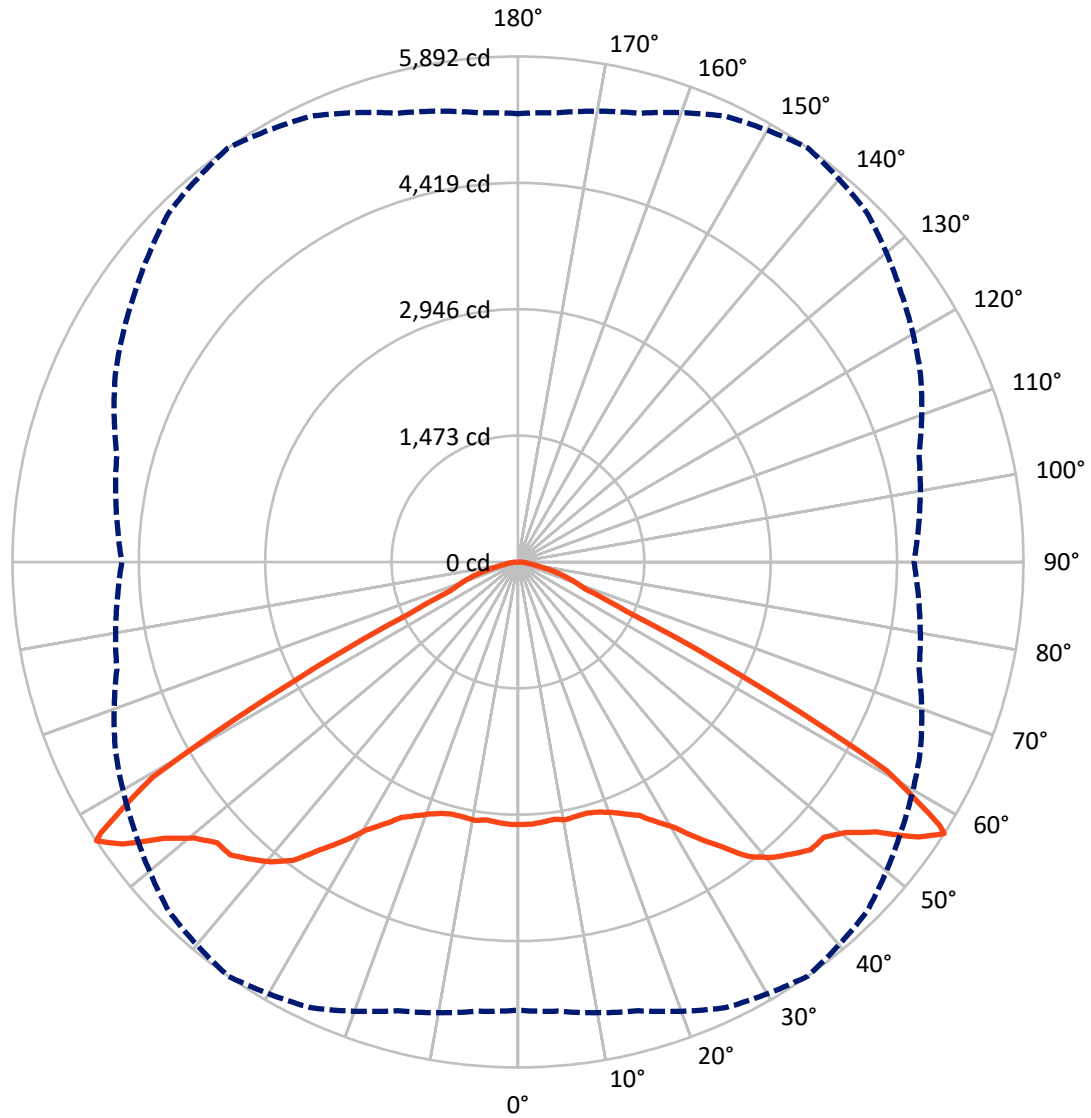
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - N/A

REPORT NUMBER: P528378
CATALOG NUMBER: GALN-SA3C-727-U-5MQ-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7746.5	0.0	7746.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7746.5	0.0	7746.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15493.0	0.0	15493.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.1	1.9
10°-20°	859.1	5.5
20°-30°	1500.4	9.7
30°-40°	2458.5	15.9
40°-50°	3604.8	23.3
50°-60°	4540.5	29.3
60°-70°	1707.6	11.0
70°-80°	454.1	2.9
80°-90°	77.9	0.5
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°	15493.0	100.0
0°-180°	15493.0	100.0

Coefficient of Utilization



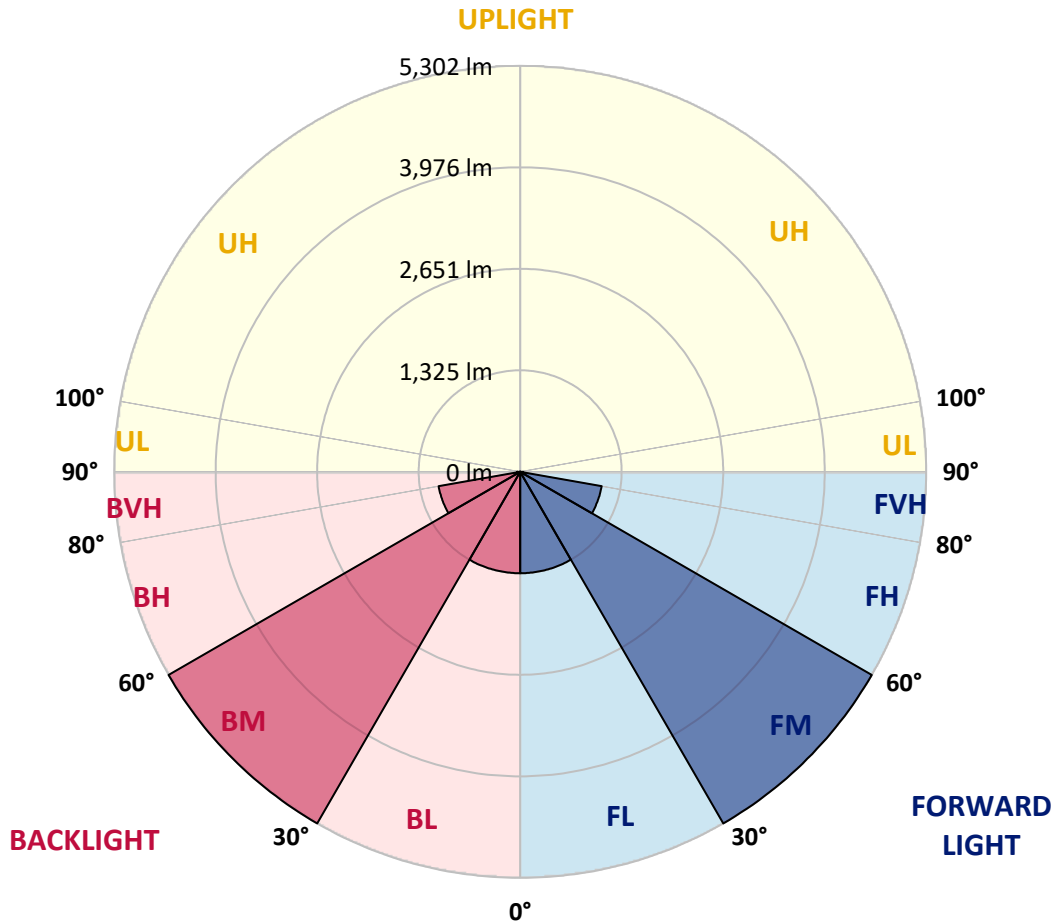
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1324.8	8.6			
FM (30°-60°)	5301.9	34.2			
FH (60°-80°)	1080.8	7.0			G1/1800
FVH (80°-90°)	38.9	0.3			G1/100
BL (0°-30°)	1324.8	8.6	B3/2500		
BM (30°-60°)	5301.9	34.2	B4/8500		
BH (60°-80°)	1080.8	7.0	B3/2500		G1/1800
BVH (80°-90°)	38.9	0.3			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°	3059.8	3059.8	3059.8	3059.8	3059.8	3059.8	3059.8	3059.8	3059.8	3059.8	3059.8
2.5°	3044.5	3075.0	3061.7	3054.0	3059.8	3050.2	3034.9	3052.1	3048.3	3033.0	3027.3
5°	3036.8	3059.8	3044.5	3059.8	3044.5	3071.2	3063.6	3034.9	3069.3	3036.8	3048.3
7.5°	3031.1	3038.8	3042.6	3034.9	3029.2	3061.7	3044.5	3031.1	3012.0	3006.3	3015.9
10°	3017.8	3036.8	3008.2	3046.4	3054.0	3031.1	3031.1	3006.3	2991.0	2981.5	3013.9
12.5°	3052.1	3019.7	3015.9	3034.9	3040.7	3050.2	3023.5	3010.1	2981.5	2985.3	2979.6
15°	3012.0	3025.4	3027.3	3031.1	3036.8	3059.8	3034.9	3006.3	2994.9	2954.8	2958.6
17.5°	3027.3	3013.9	3027.3	3071.2	3063.6	3080.7	3054.0	3010.1	2983.4	2960.5	2991.0
20°	3054.0	3048.3	3054.0	3107.5	3117.0	3132.3	3109.4	3069.3	3017.8	2991.0	3006.3
22.5°	3082.7	3078.8	3082.7	3134.2	3189.5	3208.6	3185.7	3092.2	3065.5	3015.9	2998.7
25°	3134.2	3138.0	3178.1	3235.4	3271.6	3307.9	3265.9	3199.1	3113.2	3082.7	3046.4
27.5°	3248.7	3258.3	3281.2	3365.2	3428.1	3460.6	3401.4	3309.8	3256.4	3193.4	3183.8
30°	3390.0	3390.0	3430.1	3502.6	3588.5	3638.1	3565.6	3456.8	3391.9	3357.5	3336.5
32.5°	3577.0	3556.0	3571.3	3699.2	3832.8	3874.8	3777.4	3643.8	3540.8	3495.0	3479.7
35°	3737.4	3750.7	3785.1	3922.5	4071.4	4168.7	4016.0	3842.3	3737.4	3695.4	3687.7
37.5°	3945.4	3968.3	3985.5	4174.5	4353.9	4390.2	4243.2	4103.8	3976.0	3941.6	3922.5
40°	4239.4	4224.1	4229.8	4369.2	4531.4	4554.3	4409.3	4310.0	4205.0	4184.0	4184.0
42.5°	4481.8	4464.6	4483.7	4535.2	4659.3	4642.1	4562.0	4489.4	4445.5	4422.6	4445.5
45°	4628.8	4624.9	4659.3	4697.5	4785.3	4728.0	4665.0	4676.5	4634.5	4596.3	4594.4
47.5°	4789.1	4764.3	4806.3	4863.5	4796.7	4770.0	4766.2	4791.0	4777.6	4710.8	4689.8
50°	4867.4	4857.8	4924.6	4991.4	4955.2	4894.1	4907.4	4947.5	4775.7	4686.0	4634.5
52.5°	5077.3	5079.2	5207.1	5243.4	5228.1	5138.4	5167.0	5058.2	4855.9	4729.9	4735.7
55°	5407.5	5394.2	5537.3	5644.2	5661.4	5546.9	5409.4	5256.7	5002.9	4875.0	4836.8
57°	5226.2	5256.7	5415.2	5732.0	5892.4	5756.8	5457.2	5178.5	4840.6	4686.0	4617.3
57.5°	4983.8	5033.4	5308.3	5627.0	5795.0	5783.6	5398.0	5033.4	4731.8	4491.3	4497.1
60°	3651.5	3661.0	3909.2	4415.0	4939.9	4951.3	4481.8	3998.9	3662.9	3401.4	3437.7
62.5°	1925.9	1969.8	2069.1	2475.7	2930.0	3040.7	2756.3	2508.1	2218.0	2019.5	2038.6
65°	1019.3	1013.6	1061.3	1175.8	1399.1	1456.4	1418.2	1221.6	1120.4	1088.0	1089.9
67.5°	828.4	837.9	832.2	837.9	853.2	878.0	872.3	879.9	885.7	895.2	893.3
70°	702.4	702.4	706.2	708.2	708.2	719.6	733.0	757.8	759.7	769.2	773.1
72.5°	553.5	549.7	555.5	568.8	570.7	580.3	599.4	614.6	620.3	620.3	608.9
75°	376.0	379.8	387.5	398.9	410.4	427.6	442.8	452.4	456.2	450.5	444.7
77.5°	211.9	215.7	221.4	238.6	252.0	267.2	284.4	294.0	303.5	305.4	294.0
80°	126.0	126.0	135.5	148.9	164.2	179.4	194.7	206.1	210.0	210.0	204.2
82.5°	76.4	78.3	85.9	99.3	112.6	122.2	135.5	145.1	152.7	150.8	147.0
85°	40.1	40.1	47.7	59.2	68.7	78.3	78.3	72.5	68.7	59.2	55.4
87.5°	13.4	11.5	15.3	15.3	13.4	15.3	15.3	17.2	17.2	17.2	17.2
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)