

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: P530718

Luminaire Tested: **GALN-SA6A-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530718
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-SA6A-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 20018 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

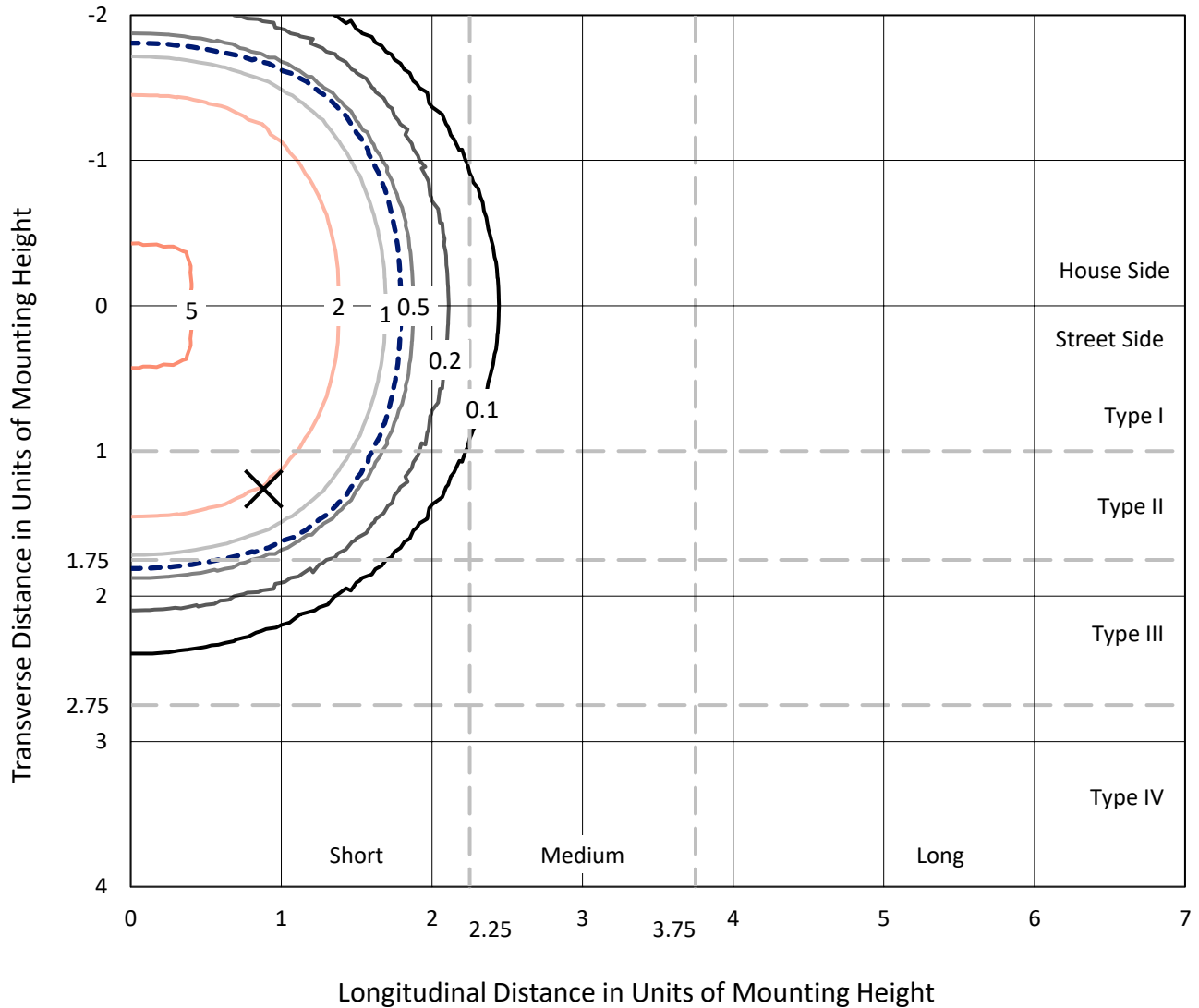
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

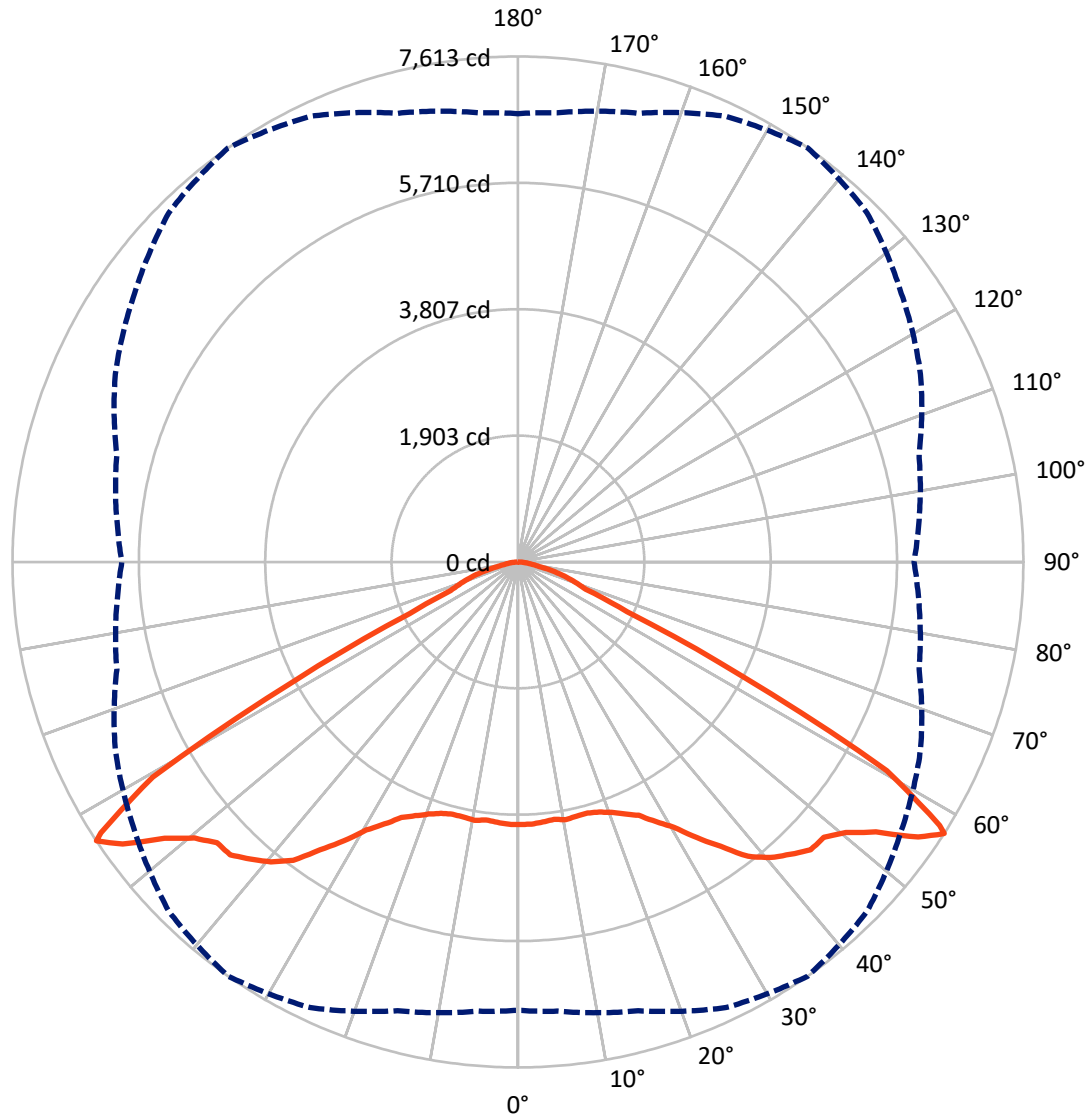
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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

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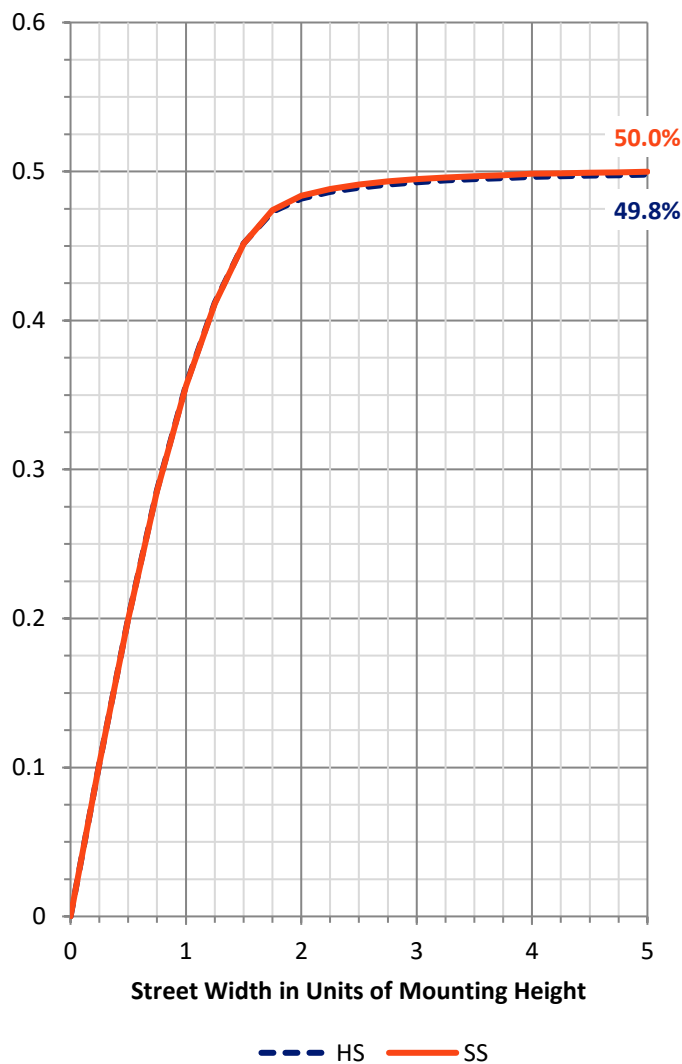
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10009.0	0.0	10009.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10009.0	0.0	10009.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20018.0	0.0	20018.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.8	1.9
10°-20°	1110.0	5.5
20°-30°	1938.7	9.7
30°-40°	3176.6	15.9
40°-50°	4657.6	23.3
50°-60°	5866.6	29.3
60°-70°	2206.4	11.0
70°-80°	586.7	2.9
80°-90°	100.6	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°	20018.0	100.0
0°-180°	20018.0	100.0

Coefficient of Utilization



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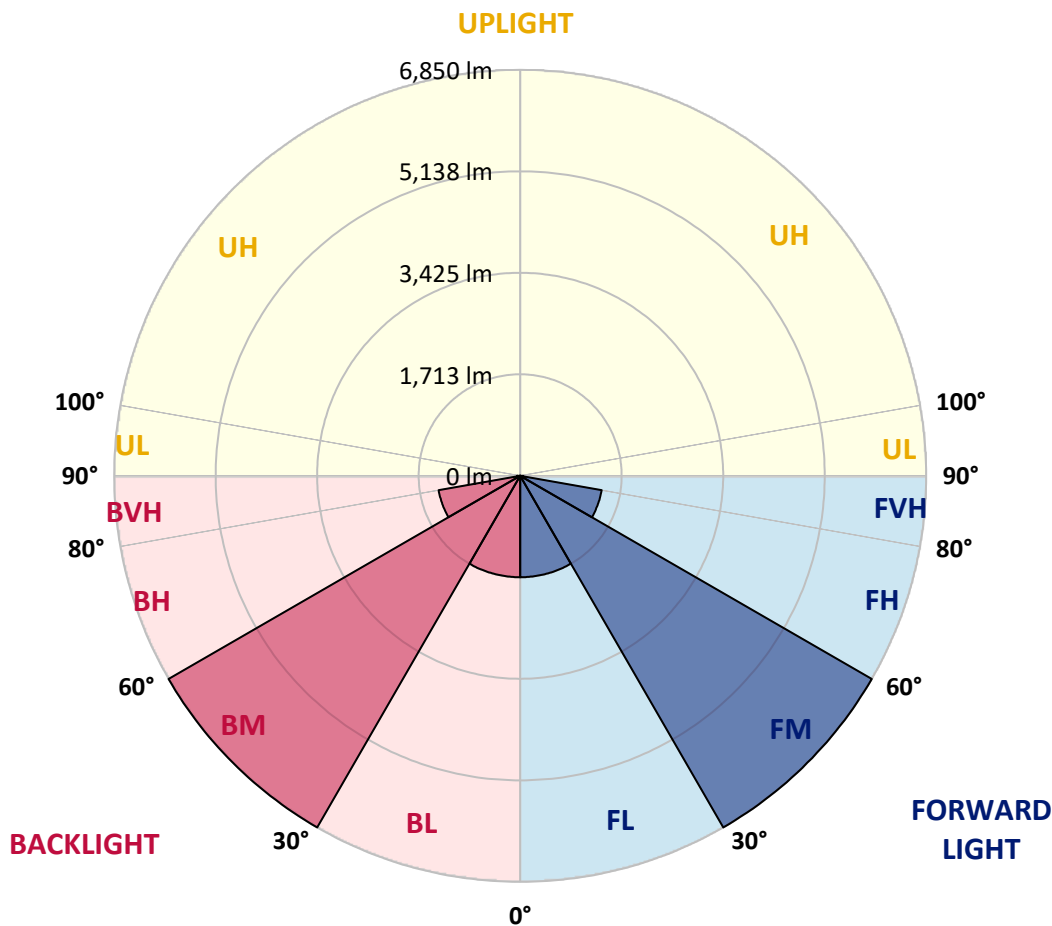
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1711.8	8.6			
FM (30°-60°)	6850.4	34.2			
FH (60°-80°)	1396.5	7.0			G1/1800
FVH (80°-90°)	50.3	0.3			G1/100
BL (0°-30°)	1711.8	8.6	B3/2500		
BM (30°-60°)	6850.4	34.2	B4/8500		
BH (60°-80°)	1396.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	50.3	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°	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4	3953.4
2.5°	3933.7	3973.1	3955.9	3946.0	3953.4	3941.1	3921.3	3943.5	3938.6	3918.9	3911.5
5°	3923.8	3953.4	3933.7	3953.4	3933.7	3968.2	3958.3	3921.3	3965.7	3923.8	3938.6
7.5°	3916.4	3926.3	3931.2	3921.3	3913.9	3955.9	3933.7	3916.4	3891.8	3884.4	3896.7
10°	3899.1	3923.8	3886.8	3936.1	3946.0	3916.4	3916.4	3884.4	3864.6	3852.3	3894.2
12.5°	3943.5	3901.6	3896.7	3921.3	3928.7	3941.1	3906.5	3889.3	3852.3	3857.2	3849.8
15°	3891.8	3909.0	3911.5	3916.4	3923.8	3953.4	3921.3	3884.4	3869.6	3817.8	3822.7
17.5°	3911.5	3894.2	3911.5	3968.2	3958.3	3980.5	3946.0	3889.3	3854.8	3825.2	3864.6
20°	3946.0	3938.6	3946.0	4015.1	4027.4	4047.1	4017.5	3965.7	3899.1	3864.6	3884.4
22.5°	3983.0	3978.1	3983.0	4049.6	4121.1	4145.8	4116.2	3995.3	3960.8	3896.7	3874.5
25°	4049.6	4054.5	4106.3	4180.3	4227.2	4274.0	4219.8	4133.4	4022.5	3983.0	3936.1
27.5°	4197.6	4209.9	4239.5	4348.0	4429.4	4471.3	4394.9	4276.5	4207.4	4126.0	4113.7
30°	4380.1	4380.1	4431.9	4525.6	4636.6	4700.7	4607.0	4466.4	4382.5	4338.1	4311.0
32.5°	4621.8	4594.6	4614.4	4779.6	4952.2	5006.5	4880.7	4708.1	4574.9	4515.7	4496.0
35°	4828.9	4846.2	4890.6	5068.2	5260.5	5386.3	5189.0	4964.6	4828.9	4774.7	4764.8
37.5°	5097.8	5127.3	5149.5	5393.7	5625.5	5672.4	5482.5	5302.4	5137.2	5092.8	5068.2
40°	5477.6	5457.8	5465.2	5645.3	5854.9	5884.5	5697.1	5568.8	5433.2	5406.0	5406.0
42.5°	5790.8	5768.6	5793.2	5859.8	6020.1	5997.9	5894.4	5800.6	5743.9	5714.3	5743.9
45°	5980.7	5975.7	6020.1	6069.5	6182.9	6108.9	6027.5	6042.3	5988.1	5938.7	5936.3
47.5°	6187.8	6155.8	6210.0	6284.0	6197.7	6163.2	6158.2	6190.3	6173.0	6086.7	6059.6
50°	6289.0	6276.6	6362.9	6449.3	6402.4	6323.5	6340.7	6392.5	6170.6	6054.7	5988.1
52.5°	6560.2	6562.7	6727.9	6774.8	6755.1	6639.2	6676.2	6535.6	6274.2	6111.4	6118.8
55°	6986.9	6969.6	7154.6	7292.7	7314.9	7166.9	6989.4	6792.1	6464.1	6298.8	6249.5
57°	6752.6	6792.1	6996.8	7406.2	7613.3	7438.2	7051.0	6691.0	6254.4	6054.7	5965.9
57.5°	6439.4	6503.5	6858.7	7270.5	7487.6	7472.8	6974.6	6503.5	6113.8	5803.1	5810.5
60°	4717.9	4730.3	5050.9	5704.4	6382.7	6397.5	5790.8	5166.8	4732.7	4394.9	4441.7
62.5°	2488.5	2545.2	2673.4	3198.7	3785.7	3928.7	3561.3	3240.7	2865.8	2609.3	2634.0
65°	1317.0	1309.6	1371.2	1519.2	1807.8	1881.8	1832.4	1578.4	1447.7	1405.8	1408.2
67.5°	1070.4	1082.7	1075.3	1082.7	1102.4	1134.5	1127.1	1136.9	1144.3	1156.7	1154.2
70°	907.6	907.6	912.5	915.0	915.0	929.8	947.0	979.1	981.6	993.9	998.8
72.5°	715.2	710.3	717.7	734.9	737.4	749.7	774.4	794.1	801.5	801.5	786.7
75°	485.9	490.8	500.6	515.4	530.2	552.4	572.2	584.5	589.4	582.0	574.6
77.5°	273.8	278.7	286.1	308.3	325.5	345.3	367.5	379.8	392.1	394.6	379.8
80°	162.8	162.8	175.1	192.4	212.1	231.8	251.6	266.4	271.3	271.3	263.9
82.5°	98.7	101.1	111.0	128.2	145.5	157.8	175.1	187.4	197.3	194.8	189.9
85°	51.8	51.8	61.7	76.5	88.8	101.1	101.1	93.7	88.8	76.5	71.5
87.5°	17.3	14.8	19.7	19.7	17.3	19.7	19.7	22.2	22.2	22.2	22.2
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)