

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: P530257

Luminaire Tested: **GALN-SA5C-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19028 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

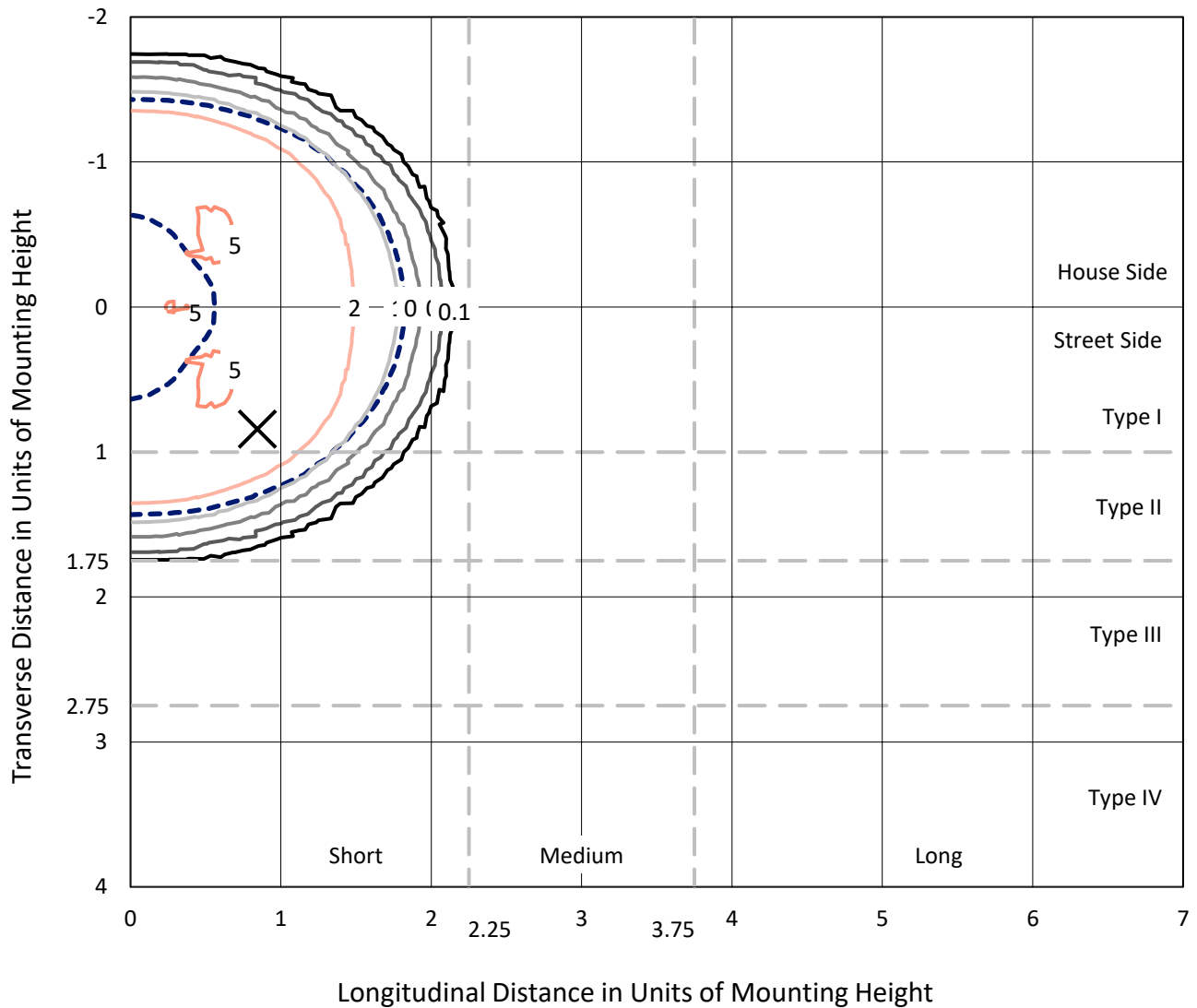
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

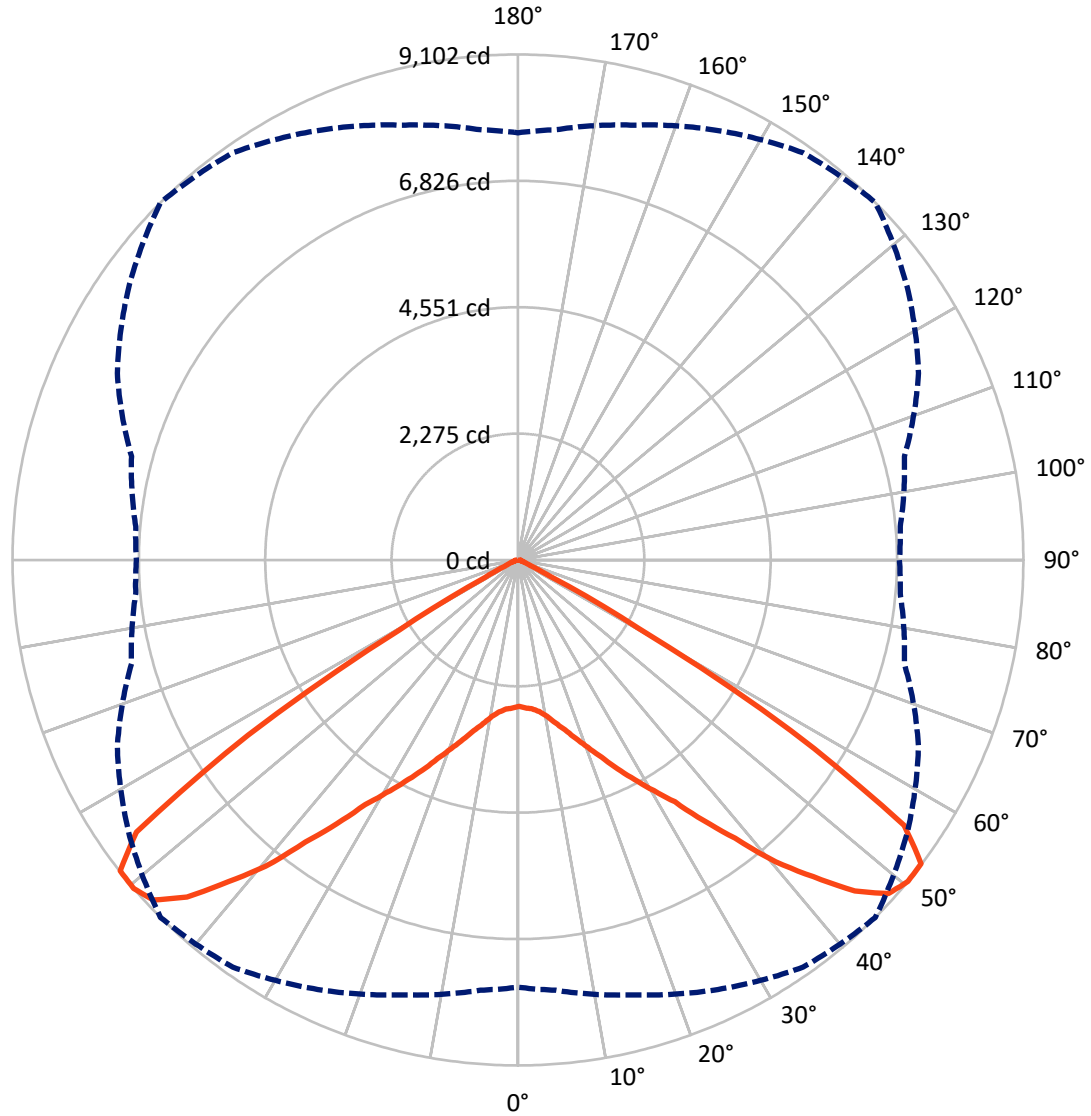
× Max cd
 - - - 1/2 Max cd



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



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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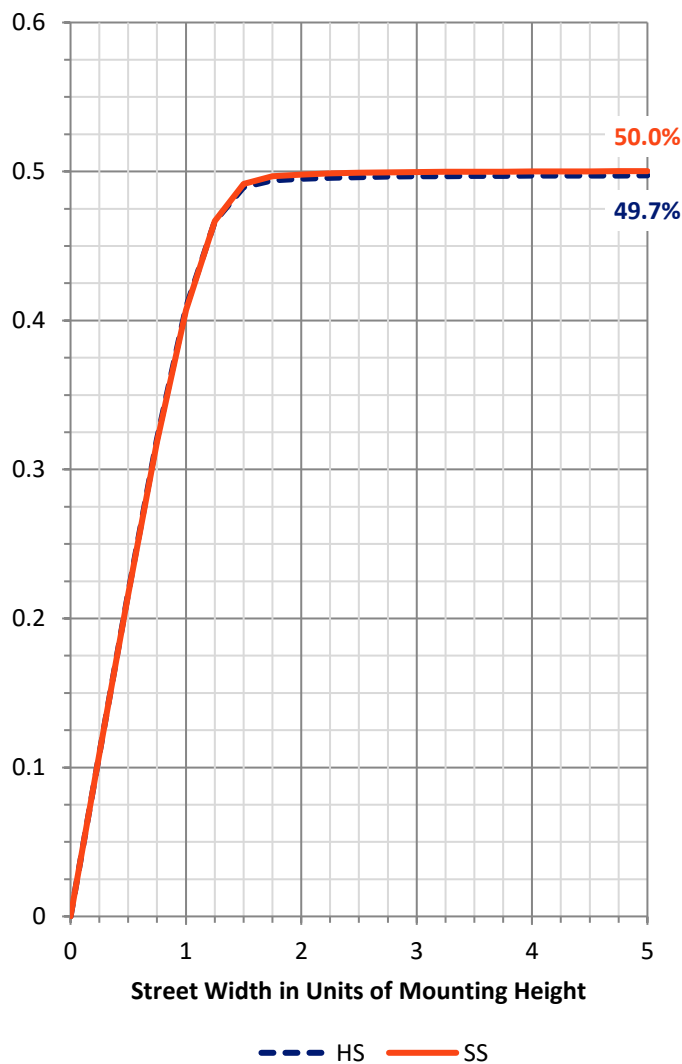
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9514.0	0.0	9514.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9514.0	0.0	9514.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19028.0	0.0	19028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.4	1.4
10°-20°	904.5	4.8
20°-30°	1847.4	9.7
30°-40°	3523.0	18.5
40°-50°	5936.8	31.2
50°-60°	5661.8	29.8
60°-70°	790.4	4.2
70°-80°	75.6	0.4
80°-90°	26.1	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°	19028.0	100.0
0°-180°	19028.0	100.0

Coefficient of Utilization



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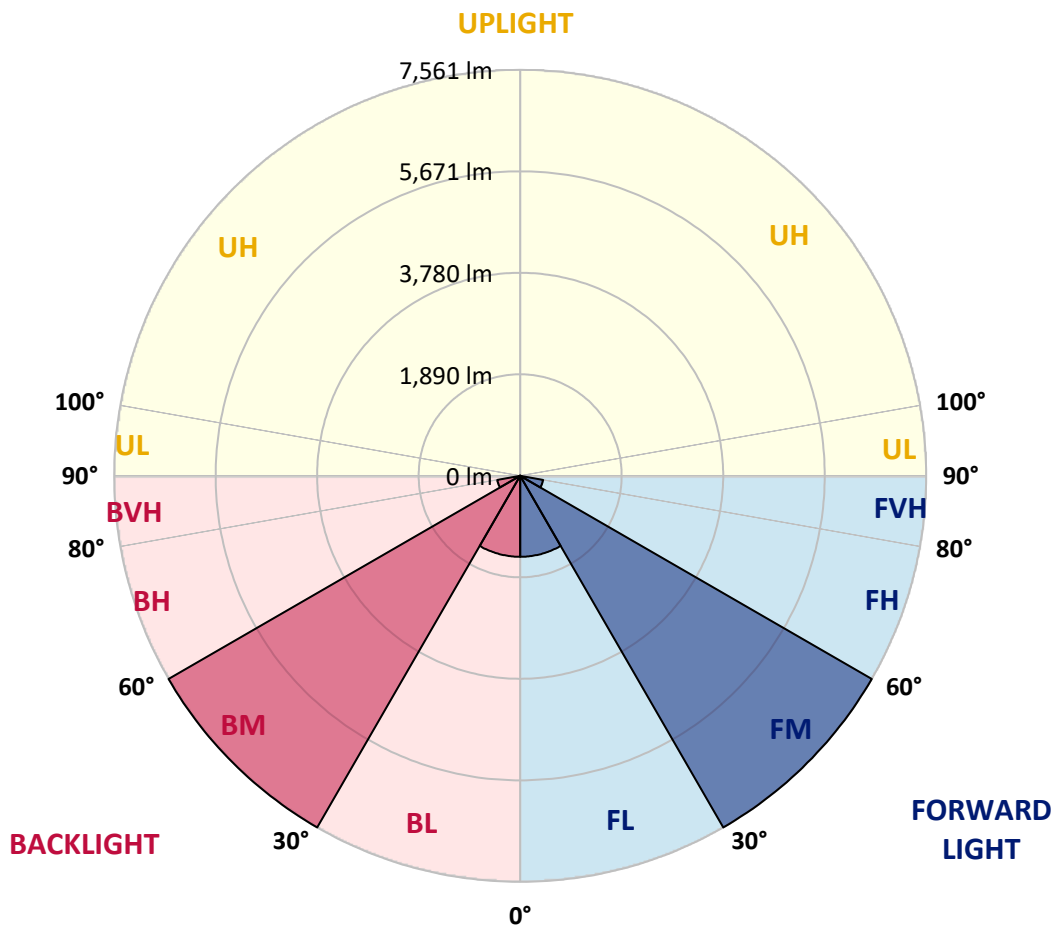
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1507.2	7.9			
FM (30°-60°)	7560.8	39.7			
FH (60°-80°)	433.0	2.3			G0/660
FVH (80°-90°)	13.1	0.1			G1/100
BL (0°-30°)	1507.2	7.9	B3/2500		
BM (30°-60°)	7560.8	39.7	B4/8500		
BH (60°-80°)	433.0	2.3	B1/500		G0/660
BVH (80°-90°)	13.1	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°	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0	2638.0
2.5°	2628.4	2628.4	2625.2	2650.8	2638.0	2666.8	2663.6	2673.2	2682.8	2679.6	2705.3
5°	2606.0	2602.8	2602.8	2631.6	2660.4	2692.4	2721.3	2740.5	2772.5	2772.5	2804.5
7.5°	2628.4	2612.4	2634.8	2647.6	2702.1	2756.5	2804.5	2842.9	2916.6	2942.2	2932.6
10°	2634.8	2654.0	2670.0	2708.5	2775.7	2858.9	2900.5	2996.6	3079.8	3137.5	3150.3
12.5°	2676.4	2705.3	2750.1	2842.9	2903.7	3012.6	3070.2	3163.1	3278.3	3342.3	3387.2
15°	2756.5	2766.1	2823.7	2942.2	3073.4	3172.7	3262.3	3329.5	3441.6	3515.2	3518.4
17.5°	2858.9	2900.5	2980.6	3092.6	3230.3	3377.6	3448.0	3521.6	3563.3	3662.5	3684.9
20°	3063.8	3070.2	3147.1	3294.3	3467.2	3601.7	3652.9	3691.3	3675.3	3777.8	3797.0
22.5°	3255.9	3262.3	3358.4	3556.8	3742.5	3857.8	3880.2	3857.8	3809.8	3883.4	3889.8
25°	3451.2	3508.8	3579.3	3777.8	4008.3	4161.9	4165.1	4104.3	4005.1	4017.9	4049.9
27.5°	3755.3	3797.0	3870.6	4053.1	4306.0	4478.9	4450.1	4376.4	4248.4	4258.0	4248.4
30°	4110.7	4149.1	4210.0	4443.7	4629.3	4818.2	4859.9	4789.4	4597.3	4555.7	4603.7
32.5°	4539.7	4594.1	4706.2	4920.7	5077.6	5192.8	5221.6	5196.0	5016.7	5000.7	5032.7
35°	5061.5	5135.2	5237.6	5426.5	5554.6	5762.7	5762.7	5676.2	5513.0	5532.2	5529.0
37.5°	5612.2	5721.1	5881.1	6073.2	6246.1	6358.1	6322.9	6249.3	6086.0	6044.4	6086.0
40°	6303.7	6358.1	6559.8	6809.6	7020.9	7148.9	6998.4	6838.4	6447.8	6508.6	6620.7
42.5°	6934.4	7020.9	7174.5	7449.9	7690.0	7795.6	7616.3	7299.4	6828.8	6780.7	6864.0
45°	7472.3	7565.1	7766.8	8160.6	8413.5	8506.3	8109.4	7597.1	7059.3	6937.6	6972.8
47.5°	7830.8	7878.9	8160.6	8535.2	8765.7	8977.0	8407.1	7802.0	7168.1	6937.6	6924.8
50°	7693.2	7776.4	8106.2	8532.0	8951.3	9101.8	8557.6	7958.9	7203.3	6908.8	6870.4
52.5°	6832.0	6976.0	7344.2	7917.3	8551.2	9089.0	8765.7	7907.7	7190.5	6937.6	6995.2
55°	4754.2	4757.4	5205.6	6050.8	7171.3	8439.1	8461.5	7965.3	7273.8	7116.9	7120.1
57.5°	1911.3	2007.3	2349.9	3198.3	4232.4	5794.7	6889.6	7389.0	7283.4	7245.0	7344.2
60°	483.4	486.6	592.3	902.8	1488.7	2484.4	3608.1	4882.3	5621.8	5874.7	5909.9
62.5°	246.5	249.7	275.3	320.1	406.6	665.9	1184.5	1879.3	2673.2	3076.6	3182.3
65°	201.7	201.7	217.7	240.1	243.3	256.1	307.3	438.6	637.1	723.5	733.1
67.5°	153.7	153.7	166.5	179.3	185.7	182.5	176.1	182.5	220.9	211.3	204.9
70°	96.0	99.2	105.6	118.5	124.9	128.1	131.3	137.7	156.9	163.3	156.9
72.5°	57.6	57.6	60.8	70.4	80.0	86.4	96.0	102.4	112.1	128.1	124.9
75°	25.6	25.6	32.0	41.6	51.2	60.8	70.4	80.0	86.4	96.0	99.2
77.5°	6.4	9.6	16.0	28.8	38.4	51.2	64.0	73.6	80.0	80.0	76.8
80°	3.2	3.2	12.8	22.4	41.6	54.4	70.4	76.8	86.4	80.0	70.4
82.5°	3.2	3.2	12.8	22.4	38.4	54.4	73.6	83.2	89.6	80.0	67.2
85°	0.0	3.2	9.6	19.2	32.0	38.4	32.0	22.4	12.8	12.8	9.6
87.5°	0.0	0.0	3.2	3.2	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)