

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: P454382

Luminaire Tested: **GALN-SA5C-727-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29393 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G4

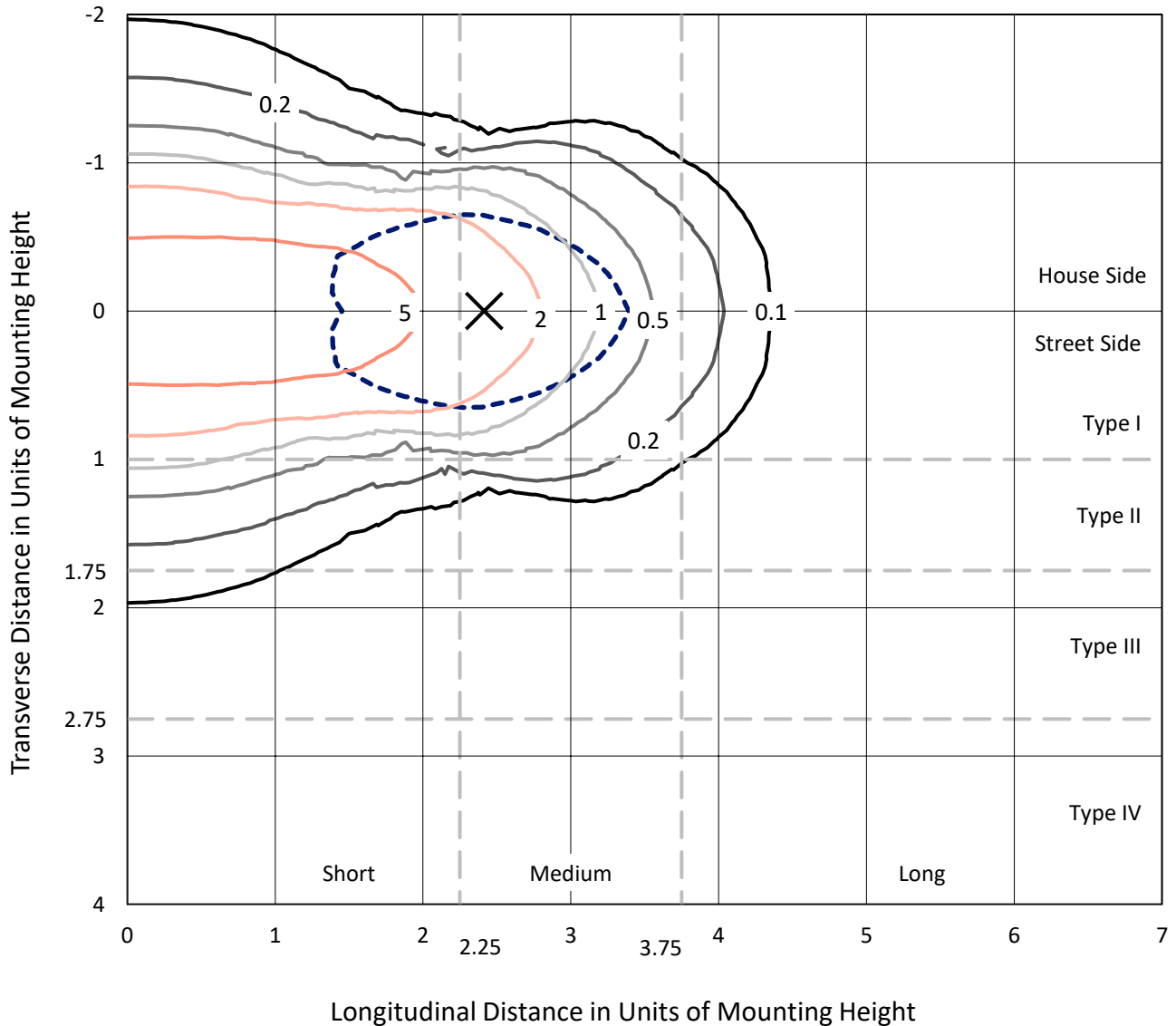
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

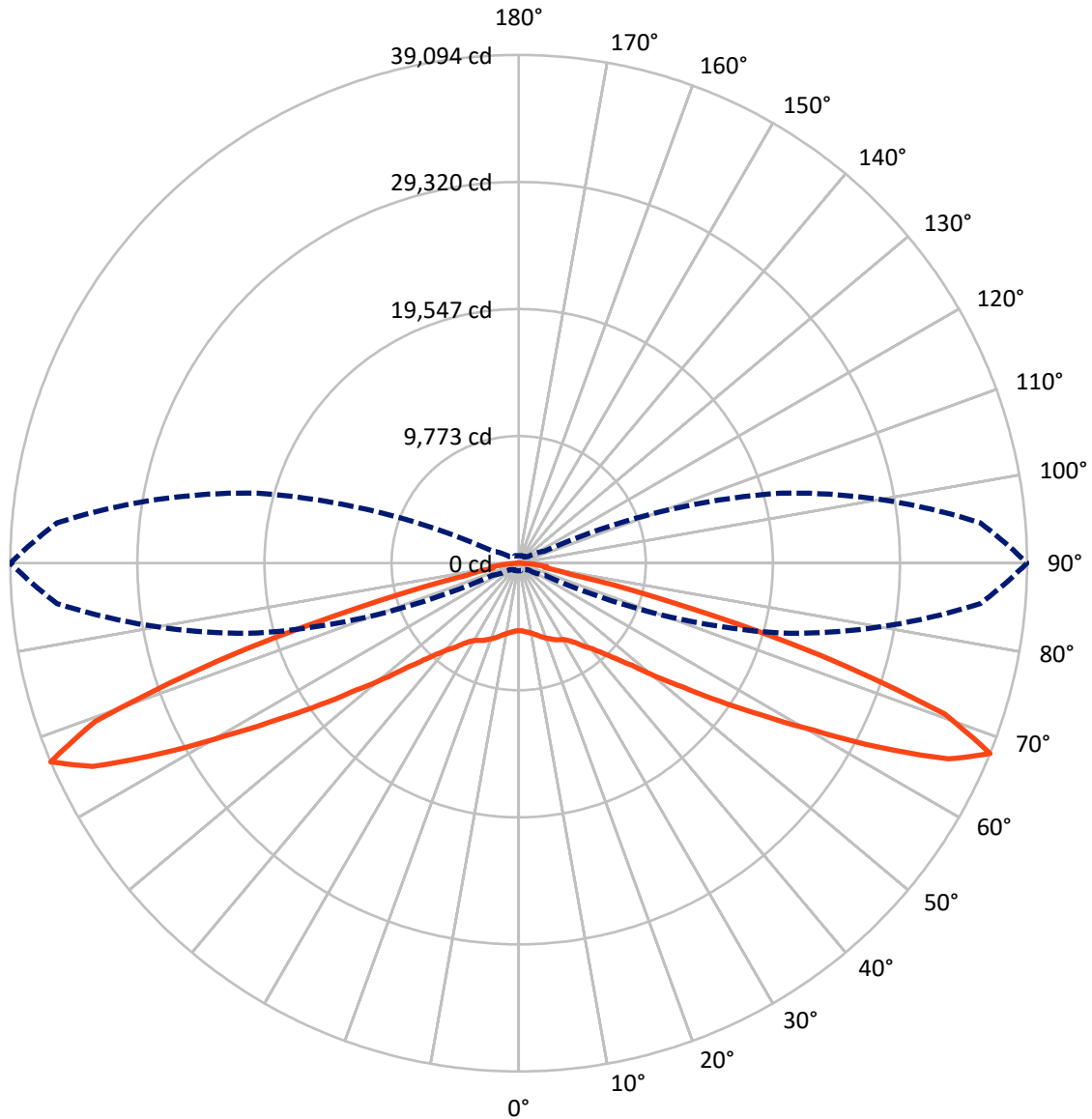
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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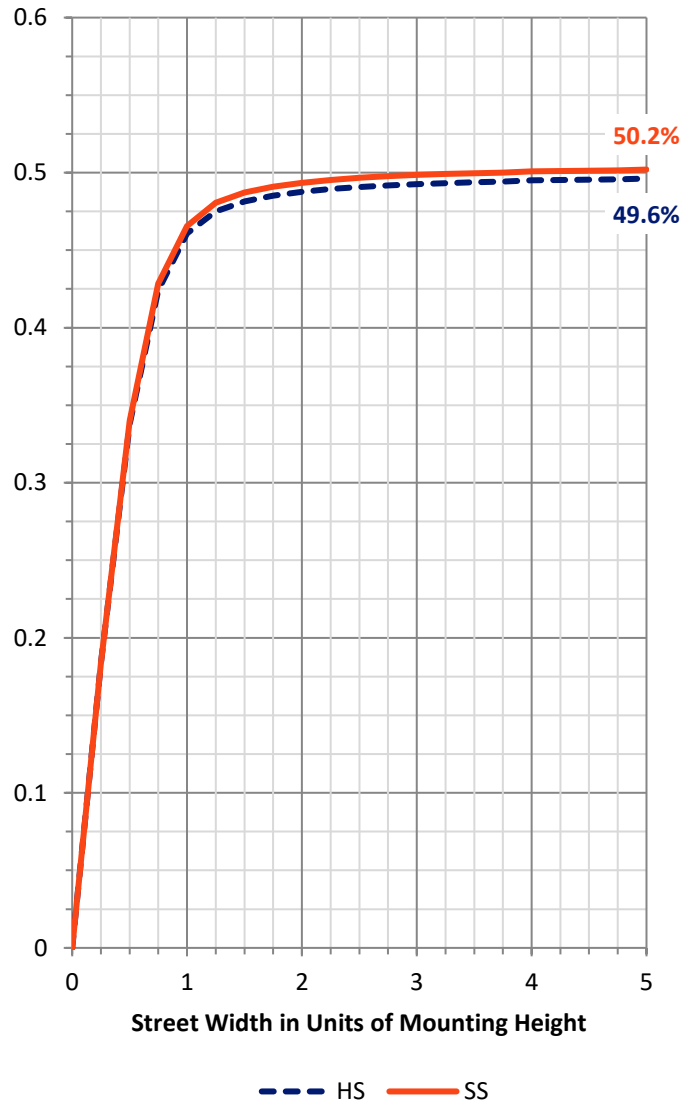
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14696.5	0.0	14696.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14696.5	0.0	14696.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29393.0	0.0	29393.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	518.8	1.8
10°-20°	1659.8	5.6
20°-30°	2778.1	9.5
30°-40°	3763.7	12.8
40°-50°	4767.3	16.2
50°-60°	5955.5	20.3
60°-70°	7000.5	23.8
70°-80°	2678.0	9.1
80°-90°	271.3	0.9
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°	29393.0	100.0
0°-180°	29393.0	100.0



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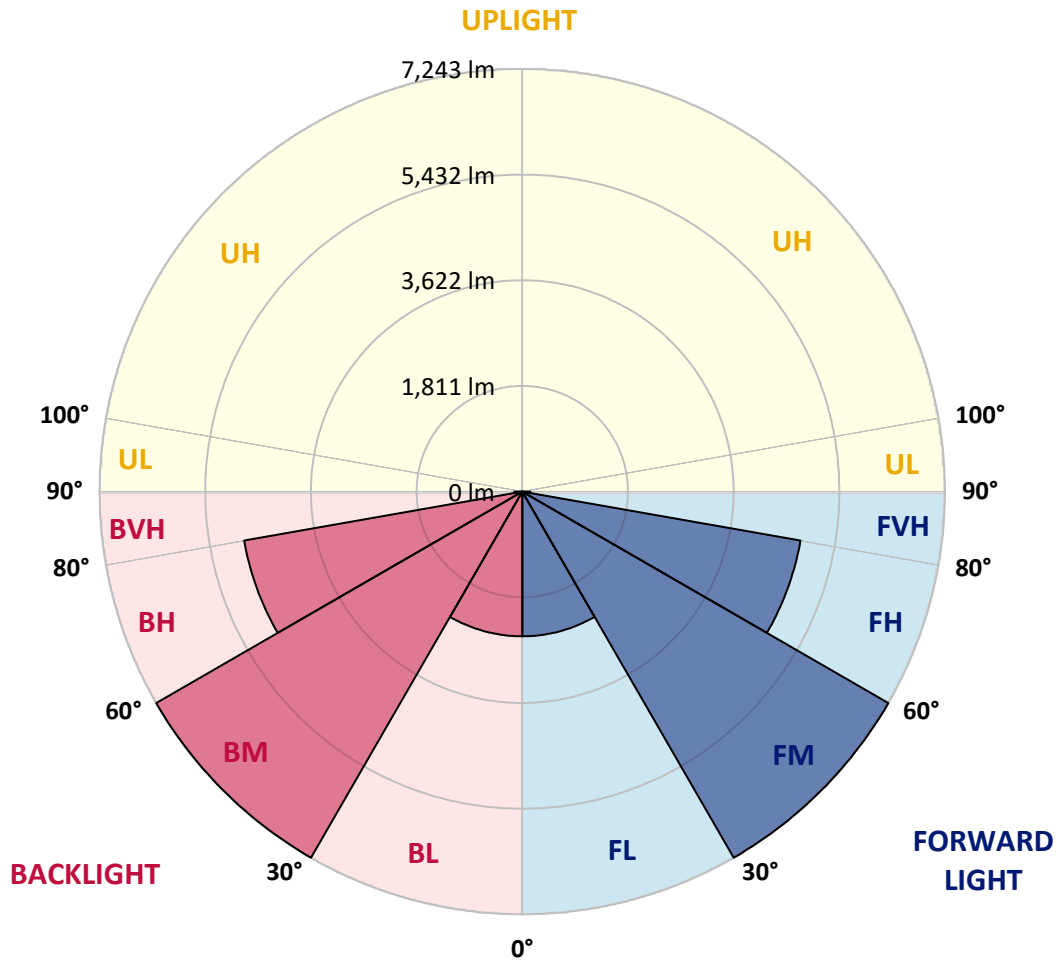
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2478.4	8.4			
FM (30°-60°)	7243.2	24.6			
FH (60°-80°)	4839.2	16.5			G2/5000
FVH (80°-90°)	135.7	0.5			G2/225
BL (0°-30°)	2478.4	8.4	B3/2500		
BM (30°-60°)	7243.2	24.6	B4/8500		
BH (60°-80°)	4839.2	16.5	B4/5000		G4/5000
BVH (80°-90°)	135.7	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5203.5	5203.5	5203.5	5203.5	5203.5	5203.5	5203.5	5203.5	5203.5	5203.5	5203.5
2.5°	5270.2	5267.0	5268.6	5267.0	5271.8	5268.6	5249.0	5232.8	5219.8	5221.4	5216.5
5°	5382.5	5384.1	5385.8	5377.6	5389.0	5382.5	5351.6	5325.5	5299.5	5289.7	5286.5
7.5°	5475.3	5483.4	5488.3	5496.4	5516.0	5516.0	5499.7	5462.3	5405.3	5372.7	5371.1
10°	5568.1	5574.6	5589.2	5615.3	5647.8	5678.7	5672.2	5621.8	5548.5	5493.2	5480.2
12.5°	5600.6	5608.8	5657.6	5732.5	5805.7	5865.9	5865.9	5825.2	5730.8	5646.2	5621.8
15°	5486.7	5501.3	5589.2	5748.7	5940.8	6072.6	6101.9	6045.0	5944.0	5813.8	5784.5
17.5°	5260.4	5296.3	5424.8	5660.8	5979.8	6253.3	6337.9	6310.3	6180.0	6014.0	5979.8
20°	5017.9	5057.0	5193.7	5506.2	5947.3	6359.1	6604.9	6611.4	6450.2	6209.3	6158.9
22.5°	4751.0	4780.3	4956.1	5322.3	5849.6	6383.5	6834.3	6946.6	6728.5	6404.7	6333.0
25°	4451.5	4484.1	4668.0	5063.5	5665.7	6355.8	7044.3	7291.7	7019.9	6613.0	6521.8
27.5°	4165.1	4178.1	4375.0	4777.0	5423.2	6284.2	7198.9	7609.1	7342.2	6785.5	6670.0
30°	3890.0	3920.9	4095.1	4492.2	5144.9	6144.2	7332.4	7970.4	7688.8	6966.2	6818.1
32.5°	3598.7	3636.1	3824.9	4226.9	4866.6	5934.3	7413.8	8365.9	8172.2	7259.2	7101.3
35°	3318.7	3343.1	3533.5	3924.2	4594.7	5690.1	7428.4	8811.9	8795.6	7703.5	7493.5
37.5°	3032.2	3068.0	3260.1	3634.5	4306.7	5431.3	7355.2	9285.5	9547.6	8320.4	8094.1
40°	2757.2	2788.1	2976.9	3354.5	3979.5	5115.6	7181.0	9718.5	10424.9	8955.1	8634.5
42.5°	2457.7	2465.8	2672.5	3056.7	3658.9	4749.4	6930.4	10104.2	11403.1	9806.4	9407.6
45°	2117.5	2138.7	2330.7	2708.3	3291.0	4339.2	6590.2	10423.2	12643.3	10986.4	10442.8
47.5°	1777.4	1795.3	1971.0	2343.8	2889.0	3868.8	6066.1	10703.2	13916.1	12485.4	11772.5
50°	1445.3	1455.1	1598.3	1928.7	2436.5	3374.0	5416.7	10792.7	15354.9	14607.8	13698.0
52.5°	1142.6	1157.2	1266.3	1525.1	1953.1	2789.7	4715.2	10571.3	17034.6	17124.1	15841.5
55°	926.1	931.0	1012.4	1202.8	1526.7	2177.7	3868.8	9954.5	18841.2	20348.4	18712.7
57.5°	797.5	800.8	846.4	952.2	1175.1	1642.3	3001.3	8787.5	20464.0	24126.1	22023.2
60°	724.3	725.9	752.0	813.8	931.0	1259.8	2150.1	7140.3	22065.5	28330.2	26137.8
62.5°	678.7	678.7	696.6	730.8	787.8	966.8	1557.6	5151.4	23162.5	32596.2	31209.5
65°	634.8	634.8	647.8	672.2	703.1	791.0	1150.7	3359.4	23134.9	35703.3	36310.4
67.5°	584.3	584.3	594.1	618.5	636.4	680.3	888.7	2200.5	20781.4	35634.9	39093.6
70°	524.1	524.1	537.1	558.3	572.9	600.6	701.5	1505.5	15267.0	30426.6	34767.4
72.5°	463.9	465.5	473.6	494.8	506.2	522.5	582.7	1054.7	9365.3	20717.9	24310.0
75°	397.1	400.4	408.5	429.7	439.5	446.0	491.5	752.0	4738.0	11170.3	12718.2
77.5°	320.6	327.2	332.0	354.8	361.3	371.1	405.3	543.6	2080.1	4013.7	4049.5
80°	234.4	242.5	257.2	278.3	283.2	289.7	309.2	385.7	942.4	1832.7	1990.6
82.5°	172.5	183.9	166.0	193.7	193.7	185.5	218.1	258.8	432.9	1814.8	2171.2
85°	94.4	96.0	86.3	99.3	105.8	104.2	115.6	127.0	210.0	1210.9	1248.4
87.5°	22.8	24.4	26.0	30.9	37.4	37.4	40.7	35.8	68.4	392.3	224.6
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)