

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: P454371

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454371
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
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-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30379 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

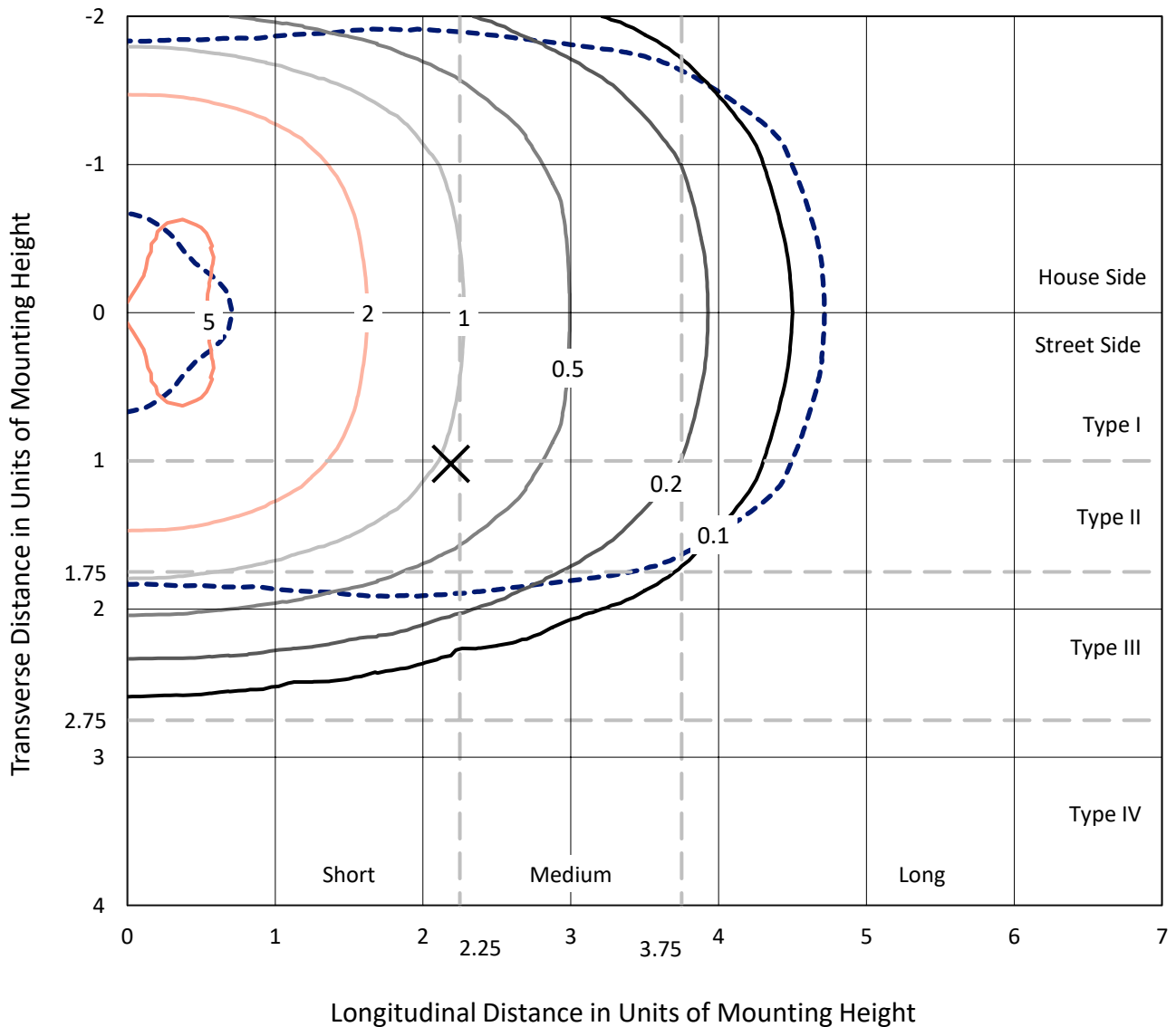
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

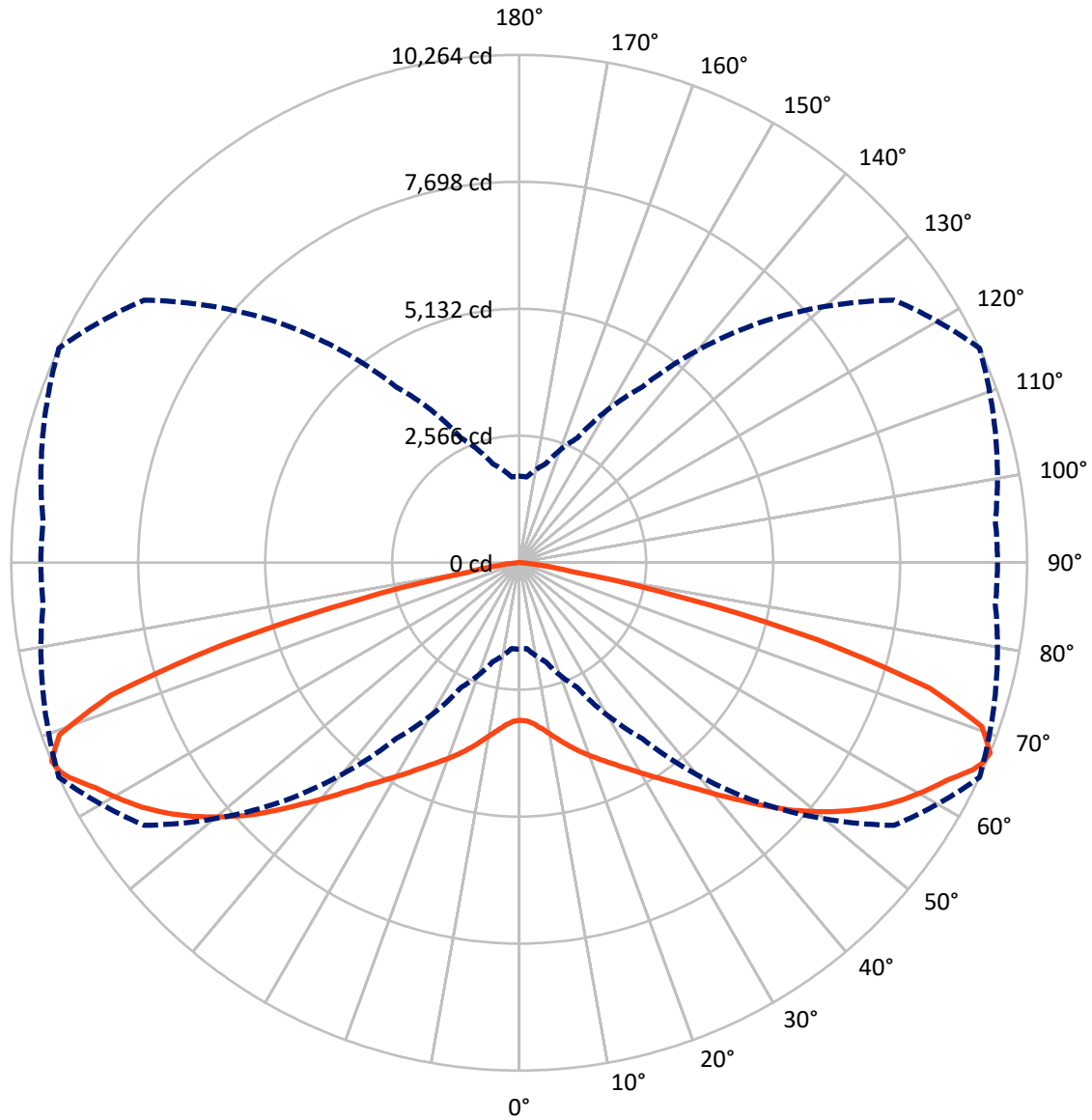
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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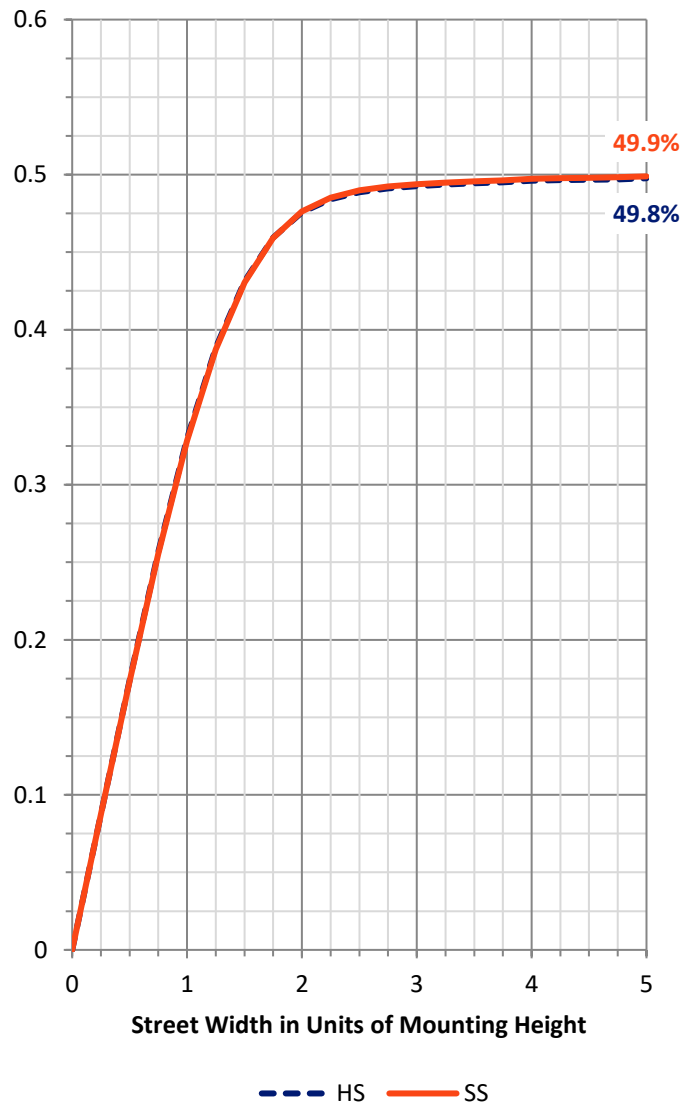
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15189.5	0.0	15189.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15189.5	0.0	15189.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30379.0	0.0	30379.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.8	1.0
10°-20°	1050.3	3.5
20°-30°	2054.5	6.8
30°-40°	3494.5	11.5
40°-50°	5530.8	18.2
50°-60°	7333.7	24.1
60°-70°	6917.9	22.8
70°-80°	3419.9	11.3
80°-90°	263.6	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°	30379.0	100.0
0°-180°	30379.0	100.0



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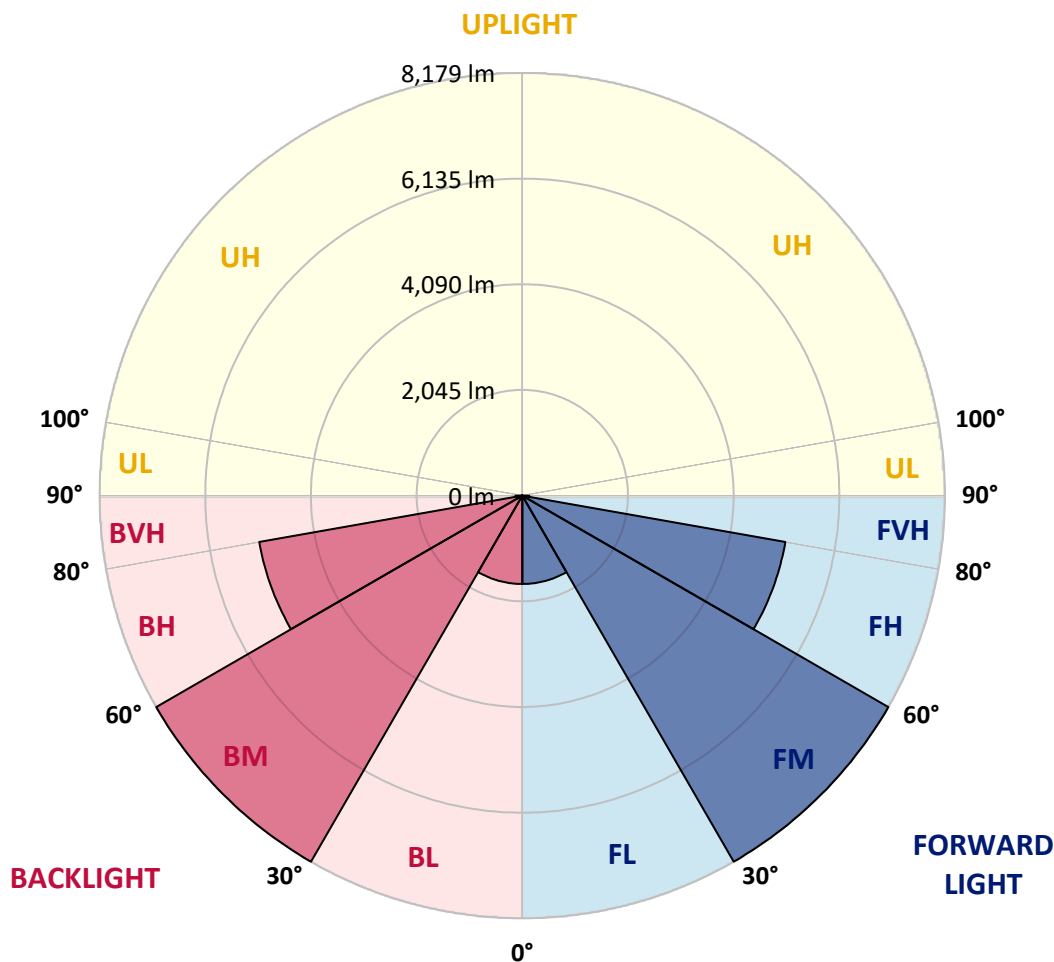
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1709.4	5.6			
FM	(30°-60°)	8179.5	26.9			
FH	(60°-80°)	5168.9	17.0			G3/7500
FVH	(80°-90°)	131.8	0.4			G2/225
BL	(0°-30°)	1709.4	5.6	B3/2500		
BM	(30°-60°)	8179.5	26.9	B4/8500		
BH	(60°-80°)	5168.9	17.0	B5		G5
BVH	(80°-90°)	131.8	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3181.9	3181.9	3181.9	3181.9	3181.9	3181.9	3181.9	3181.9	3181.9	3181.9	3181.9
2.5°	3165.7	3168.9	3172.2	3177.0	3183.6	3193.3	3199.8	3204.7	3217.7	3219.4	3217.7
5°	3154.3	3157.5	3165.7	3180.3	3201.5	3230.8	3253.5	3281.2	3302.4	3317.0	3313.8
7.5°	3152.6	3159.1	3172.2	3203.1	3243.8	3294.2	3346.3	3393.5	3434.2	3466.8	3461.9
10°	3178.7	3186.8	3208.0	3253.5	3317.0	3390.3	3463.5	3533.5	3592.1	3634.4	3649.0
12.5°	3222.6	3229.1	3268.2	3336.6	3427.7	3518.8	3601.8	3688.1	3769.5	3841.1	3841.1
15°	3299.1	3310.5	3359.3	3458.6	3570.9	3676.7	3761.4	3852.5	3940.4	4021.8	4046.2
17.5°	3404.9	3421.2	3494.4	3621.4	3764.6	3862.3	3942.0	4016.9	4093.4	4171.5	4182.9
20°	3549.8	3566.0	3663.7	3816.7	3986.0	4103.1	4156.9	4174.8	4212.2	4287.1	4296.8
22.5°	3746.7	3763.0	3872.0	4044.6	4233.4	4360.3	4383.1	4340.8	4331.0	4389.6	4396.1
25°	3969.7	3984.3	4109.7	4295.2	4490.5	4628.9	4622.3	4518.2	4459.6	4495.4	4505.2
27.5°	4220.3	4241.5	4368.4	4560.5	4772.1	4894.2	4874.6	4723.3	4597.9	4591.4	4594.7
30°	4541.0	4563.8	4684.2	4868.1	5076.4	5188.7	5148.1	4944.6	4750.9	4685.8	4685.8
32.5°	4879.5	4936.5	5058.5	5250.6	5413.4	5494.7	5432.9	5188.7	4931.6	4840.4	4835.6
35°	5320.6	5351.5	5471.9	5659.1	5781.2	5844.7	5725.9	5463.8	5167.6	5060.2	5045.5
37.5°	5751.9	5777.9	5917.9	6096.9	6245.1	6241.8	6080.7	5791.0	5460.6	5340.1	5330.3
40°	6193.0	6220.6	6380.1	6544.5	6692.6	6679.6	6484.3	6160.4	5808.9	5673.8	5699.8
42.5°	6575.5	6606.4	6787.0	7021.4	7154.9	7151.6	6925.4	6560.8	6194.6	6074.2	6096.9
45°	6923.8	6951.4	7161.4	7429.9	7625.2	7649.7	7402.3	7016.5	6640.6	6485.9	6492.4
47.5°	7169.5	7221.6	7441.3	7748.9	8014.2	8100.5	7858.0	7480.4	7047.5	6886.3	6896.1
50°	7356.7	7389.2	7628.5	7978.4	8313.7	8492.7	8297.4	7910.1	7454.3	7283.5	7306.2
52.5°	7379.5	7418.5	7679.0	8082.6	8512.3	8784.1	8688.1	8330.0	7869.4	7693.6	7742.4
55°	7193.9	7216.7	7527.6	8017.5	8590.4	9000.6	9025.0	8720.6	8264.9	8131.4	8164.0
57.5°	6665.0	6723.6	7117.4	7713.1	8483.0	9116.1	9277.2	9075.4	8665.3	8533.4	8585.5
60°	5797.5	5856.1	6251.6	7006.8	8077.7	9062.4	9485.6	9389.5	9028.2	8922.4	8950.1
62.5°	4542.6	4537.7	5027.6	5953.7	7272.1	8798.7	9640.2	9692.3	9386.3	9252.8	9295.1
65°	2944.3	2959.0	3432.6	4430.3	6056.3	8128.2	9674.4	10078.0	9737.9	9536.0	9567.0
66°	2368.1	2412.1	2814.1	3733.7	5436.1	7688.7	9571.8	10191.9	9845.3	9601.1	9615.8
67.5°	1748.0	1739.9	2070.3	2779.9	4340.8	6853.8	9251.2	10263.6	9967.3	9659.7	9666.2
70°	997.7	996.1	1113.3	1526.7	2552.1	4825.8	7797.8	9920.1	10214.7	9871.3	9853.4
72.5°	729.2	724.3	740.6	843.1	1245.1	2436.5	5379.2	8670.2	10087.8	9837.1	9786.7
75°	612.0	608.7	605.5	618.5	698.2	1103.5	2854.8	6236.9	8753.2	9233.3	9181.2
77.5°	499.7	499.7	501.3	498.0	501.3	581.0	1183.3	3343.1	5330.3	5950.5	6095.3
80°	390.6	389.0	416.7	405.3	379.2	372.7	524.1	1075.8	1769.2	1759.4	1451.8
82.5°	288.1	268.6	317.4	309.2	279.9	237.6	306.0	459.0	590.8	384.1	284.8
85°	182.3	180.7	224.6	205.1	170.9	112.3	146.5	196.9	244.1	148.1	120.4
87.5°	32.6	30.9	71.6	52.1	52.1	32.6	40.7	53.7	79.8	55.3	40.7
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)