

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: P454598

Luminaire Tested: **GALN-SA5D-727-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33981 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: B5 - U0 - G4

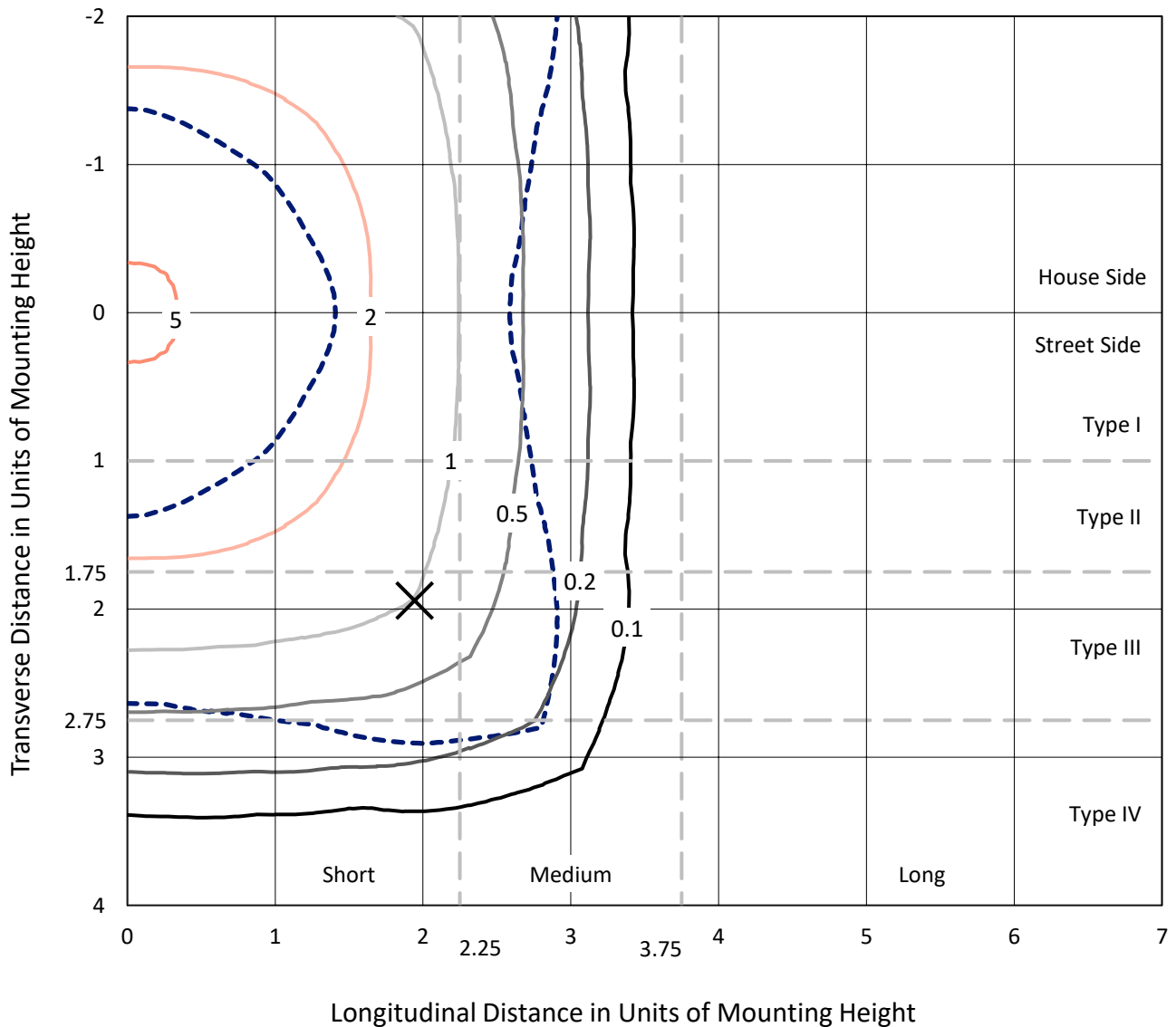
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

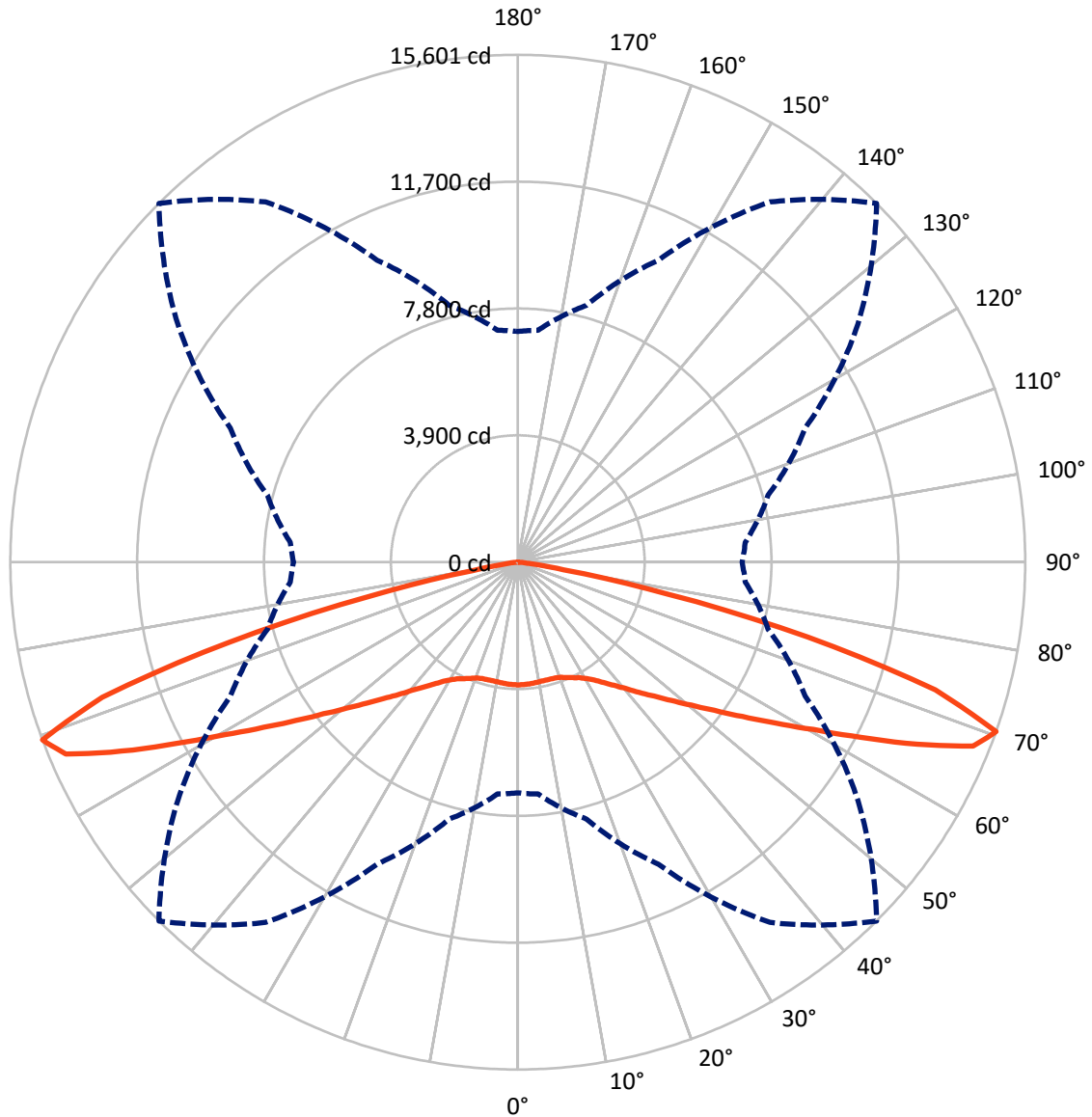
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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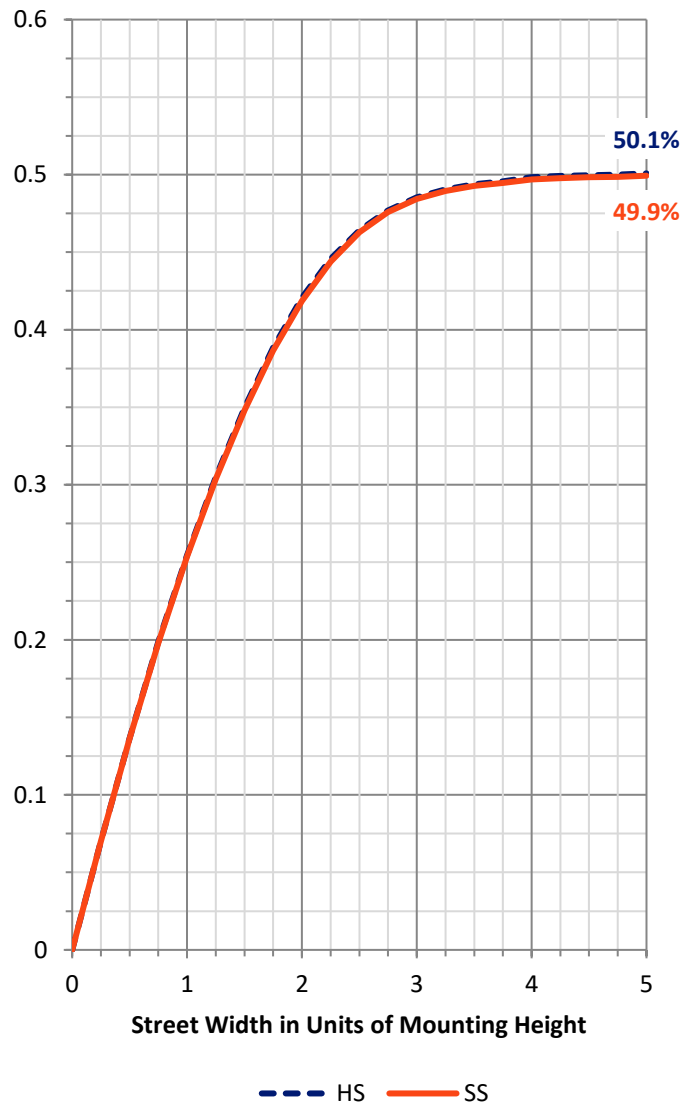
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16990.5	0.0	16990.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16990.5	0.0	16990.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	33981.0	0.0	33981.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.8	1.1
10°-20°	1050.0	3.1
20°-30°	1795.9	5.3
30°-40°	2850.4	8.4
40°-50°	4598.5	13.5
50°-60°	7481.8	22.0
60°-70°	10845.9	31.9
70°-80°	4810.9	14.2
80°-90°	189.7	0.6
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°	33981.0	100.0
0°-180°	33981.0	100.0



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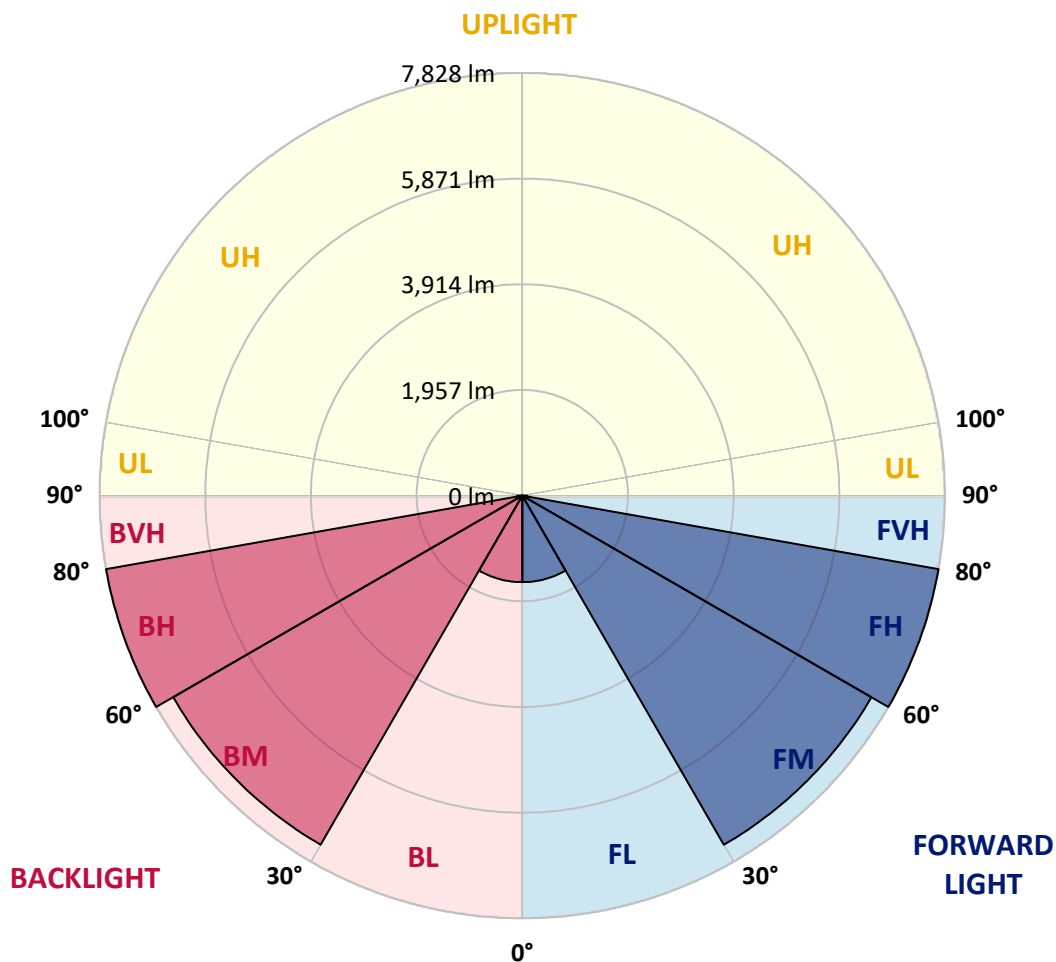
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.9	4.7			
FM (30°-60°)	7465.4	22.0			
FH (60°-80°)	7828.4	23.0			G4/12000
FVH (80°-90°)	94.9	0.3			G1/100
BL (0°-30°)	1601.9	4.7	B3/2500		
BM (30°-60°)	7465.4	22.0	B4/8500		
BH (60°-80°)	7828.4	23.0	B5		G4/12000
BVH (80°-90°)	94.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4	3773.4
2.5°	3773.4	3777.0	3771.6	3768.1	3766.3	3766.3	3764.5	3766.3	3777.0	3778.8	3773.4
5°	3762.7	3766.3	3764.5	3760.9	3759.1	3759.1	3757.3	3755.5	3764.5	3768.1	3766.3
7.5°	3748.4	3750.1	3748.4	3746.6	3748.4	3746.6	3741.2	3737.6	3744.8	3744.8	3743.0
10°	3723.3	3726.9	3725.1	3726.9	3730.4	3730.4	3723.3	3716.1	3717.9	3714.3	3714.3
12.5°	3692.8	3698.2	3700.0	3707.2	3716.1	3726.9	3710.7	3694.6	3691.0	3689.3	3687.5
15°	3673.1	3678.5	3685.7	3692.8	3709.0	3732.2	3709.0	3683.9	3676.7	3669.6	3666.0
17.5°	3667.8	3674.9	3685.7	3696.4	3717.9	3741.2	3721.5	3696.4	3678.5	3667.8	3664.2
20°	3682.1	3687.5	3703.6	3723.3	3753.7	3777.0	3757.3	3730.4	3703.6	3687.5	3682.1
22.5°	3710.7	3719.7	3739.4	3775.2	3818.2	3852.2	3825.4	3780.6	3737.6	3716.1	3709.0
25°	3773.4	3780.6	3803.9	3852.2	3902.4	3934.6	3906.0	3854.0	3794.9	3766.3	3757.3
27.5°	3868.3	3879.1	3904.2	3961.5	4002.7	4020.6	4000.9	3965.1	3922.1	3891.6	3884.5
30°	4002.7	4015.2	4052.8	4113.7	4140.6	4151.3	4142.4	4119.1	4088.6	4056.4	4049.2
32.5°	4183.5	4190.7	4233.7	4291.0	4316.1	4319.7	4308.9	4298.2	4248.0	4194.3	4190.7
35°	4385.9	4398.5	4450.4	4518.4	4541.7	4543.5	4522.0	4505.9	4446.8	4403.8	4403.8
37.5°	4654.6	4659.9	4710.1	4787.1	4812.2	4805.0	4794.2	4779.9	4717.2	4661.7	4663.5
40°	4969.8	4980.5	5023.5	5113.0	5113.0	5104.1	5111.2	5100.5	5037.8	4984.1	4985.9
42.5°	5344.1	5349.4	5401.4	5496.3	5489.1	5471.2	5478.4	5464.0	5424.6	5363.8	5342.3
45°	5743.4	5764.9	5854.5	5945.8	5931.5	5874.2	5902.8	5899.2	5863.4	5772.1	5777.4
47.5°	6225.2	6261.0	6347.0	6456.2	6440.1	6350.5	6382.8	6404.3	6354.1	6253.8	6235.9
50°	6767.8	6791.1	6918.3	7020.3	7006.0	6911.1	6984.5	6988.1	6862.7	6721.3	6721.3
52.5°	7346.3	7369.6	7541.5	7700.9	7709.8	7571.9	7631.0	7627.5	7423.3	7237.0	7201.2
55°	7994.6	8005.3	8227.4	8462.0	8512.2	8377.8	8385.0	8313.4	8048.3	7831.6	7811.9
57.5°	8664.4	8703.8	8949.1	9253.6	9402.2	9319.9	9282.2	9090.6	8834.5	8585.6	8573.0
60°	9405.8	9407.6	9726.4	10086.4	10387.2	10442.7	10288.7	10032.6	9701.3	9371.8	9357.5
62.5°	9919.8	9996.8	10399.8	11008.7	11547.7	11859.4	11452.8	10915.5	10263.7	9731.8	9678.0
65°	10025.5	10077.4	10691.7	11723.2	12824.6	13496.2	12556.0	11413.4	10301.3	9592.1	9556.3
67.5°	9171.2	9226.7	10054.1	11637.3	13720.1	15097.3	13272.4	11173.4	9663.7	8786.2	8716.3
70°	7093.8	7156.4	8179.0	10244.0	13521.3	15600.5	12762.0	9746.1	7969.5	7022.1	6895.0
72.5°	3771.6	4002.7	4876.6	7031.1	10974.6	13431.8	10464.2	7111.7	5139.9	4201.5	4033.1
75°	1377.2	1405.9	1893.0	3118.0	6384.6	9210.6	6629.9	3392.0	1950.3	1506.1	1429.1
77.5°	569.5	567.7	623.2	942.0	2319.2	4717.2	2587.9	995.7	621.4	574.9	567.7
80°	336.7	336.7	370.7	392.2	610.7	1423.8	682.3	444.1	372.5	340.3	345.6
82.5°	150.4	159.4	234.6	247.1	295.5	390.4	329.5	283.0	243.6	168.3	152.2
85°	82.4	71.6	123.6	128.9	141.5	145.1	155.8	154.0	141.5	82.4	84.2
87.5°	16.1	19.7	35.8	26.9	30.4	26.9	35.8	50.1	51.9	28.7	23.3
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)