

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: P529080

Luminaire Tested: **GALN-SA4B-727-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529080
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-SA4B-727-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA 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: 16616 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

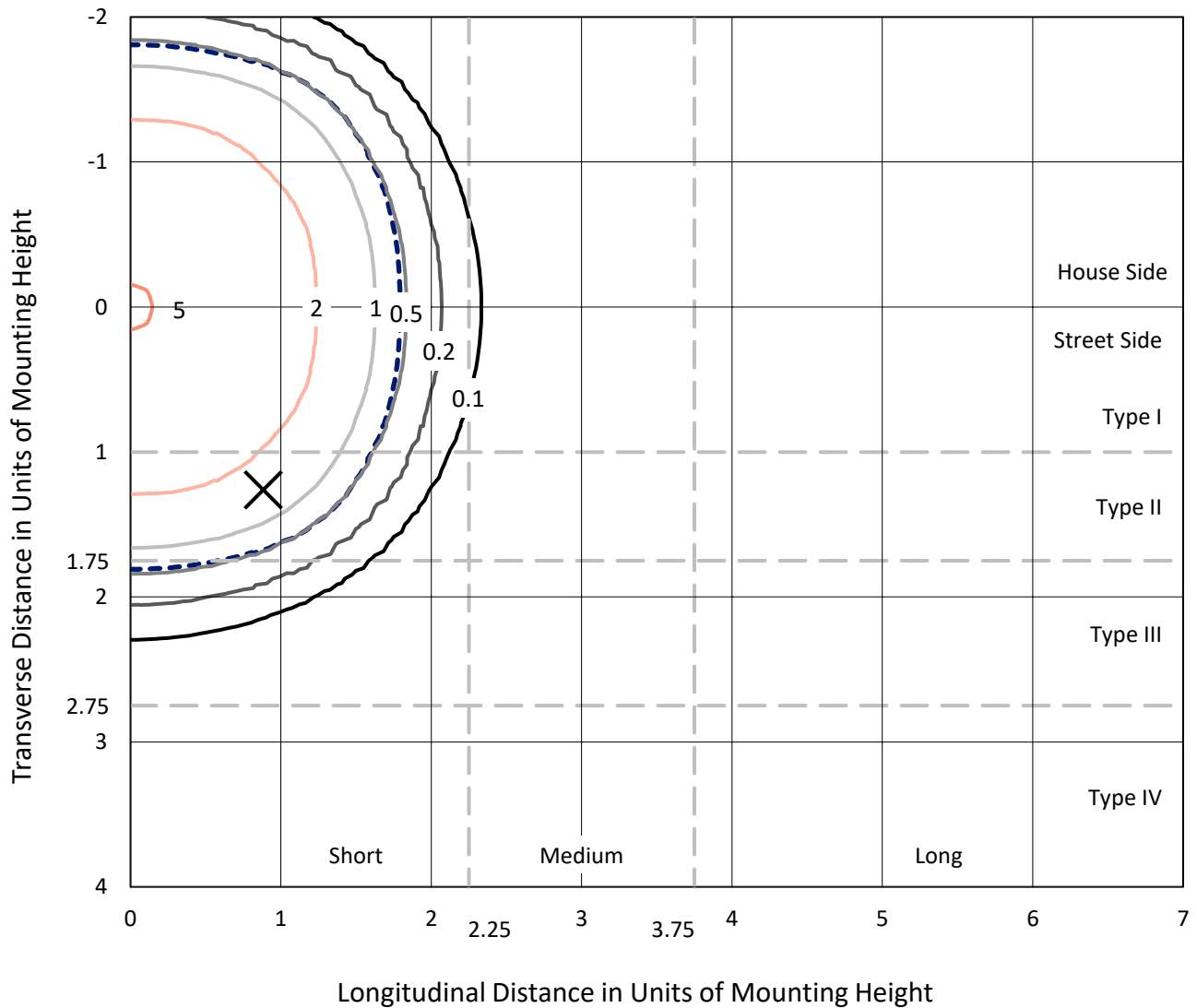
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

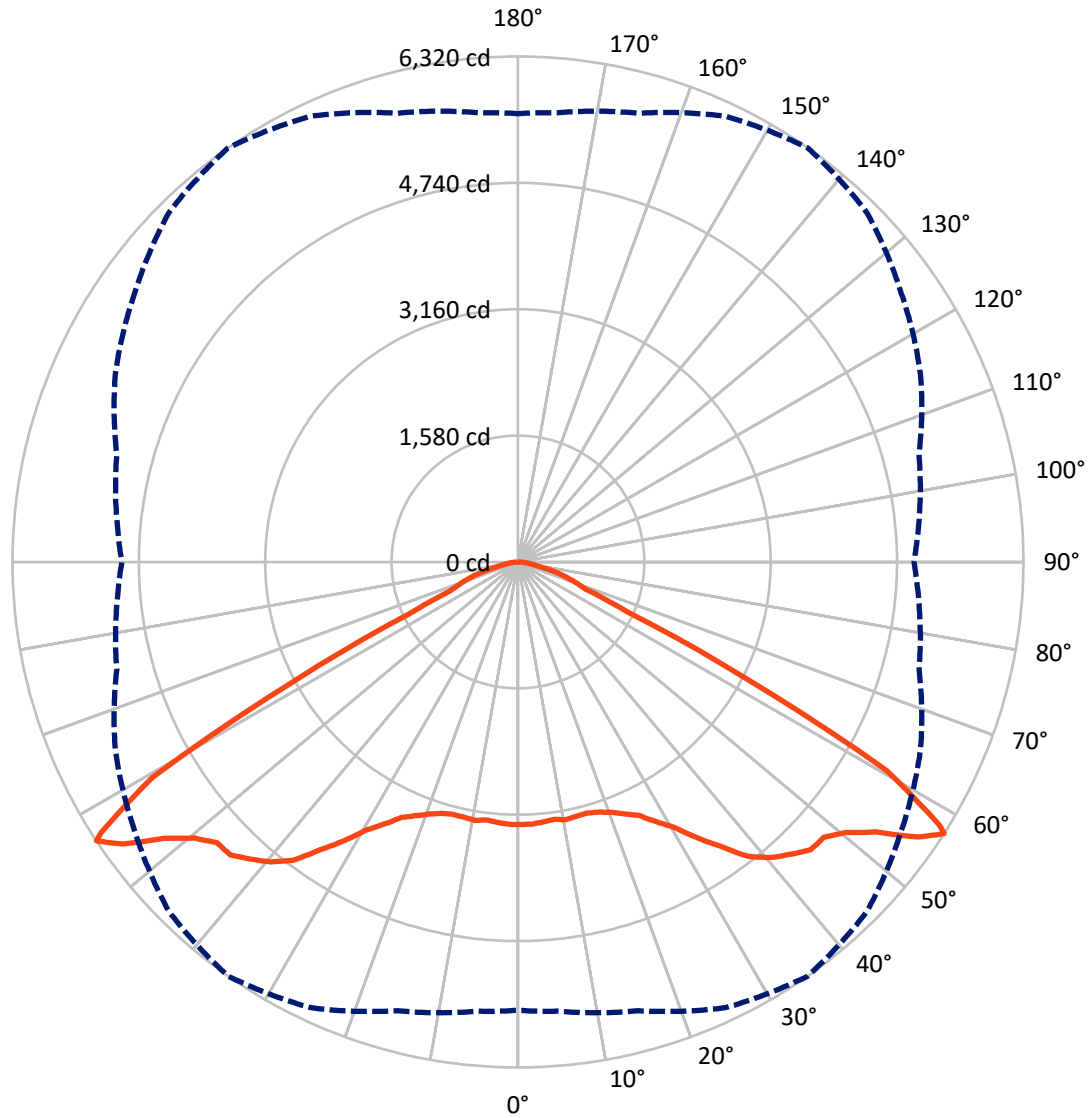
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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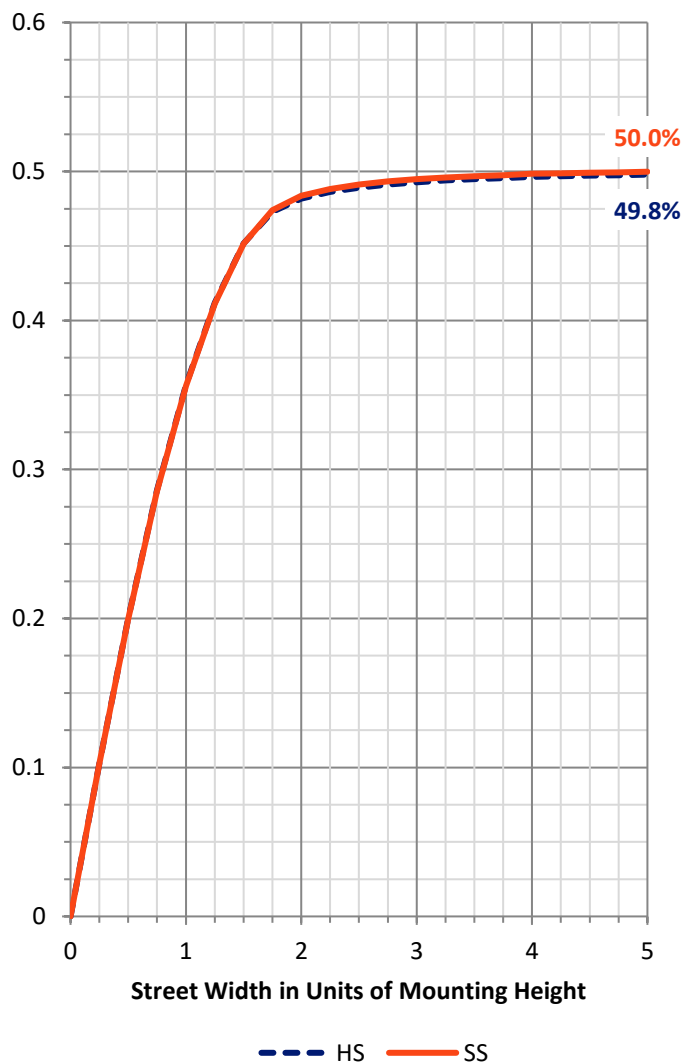
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8308.0	0.0	8308.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8308.0	0.0	8308.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16616.0	0.0	16616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	311.1	1.9
10°-20°	921.4	5.5
20°-30°	1609.2	9.7
30°-40°	2636.7	15.9
40°-50°	3866.1	23.3
50°-60°	4869.6	29.3
60°-70°	1831.4	11.0
70°-80°	487.0	2.9
80°-90°	83.5	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°	16616.0	100.0
0°-180°	16616.0	100.0

Coefficient of Utilization



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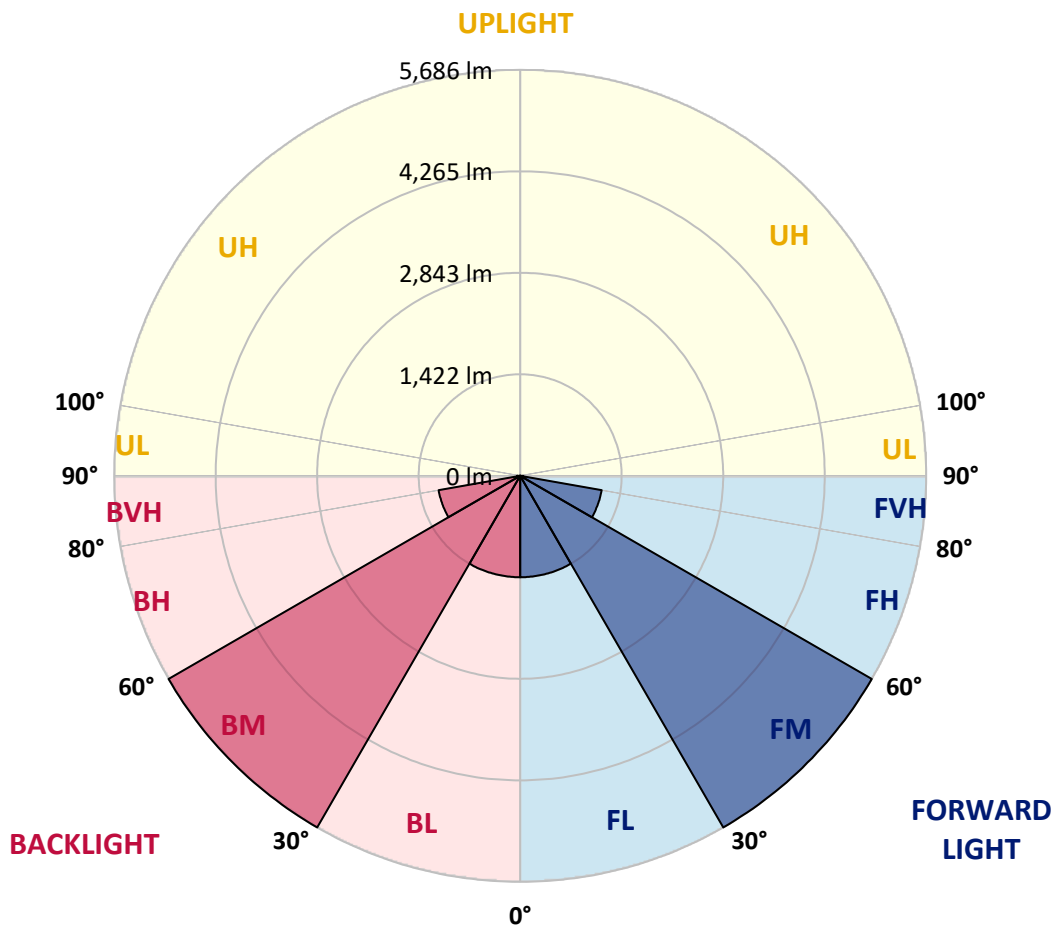
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1420.8	8.6			
FM (30°-60°)	5686.2	34.2			
FH (60°-80°)	1159.2	7.0			G1/1800
FVH (80°-90°)	41.7	0.3			G1/100
BL (0°-30°)	1420.8	8.6	B3/2500		
BM (30°-60°)	5686.2	34.2	B4/8500		
BH (60°-80°)	1159.2	7.0	B3/2500		G1/1800
BVH (80°-90°)	41.7	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°	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5	3281.5
2.5°	3265.2	3297.9	3283.6	3275.4	3281.5	3271.3	3254.9	3273.3	3269.3	3252.9	3246.7
5°	3257.0	3281.5	3265.2	3281.5	3265.2	3293.8	3285.6	3254.9	3291.8	3257.0	3269.3
7.5°	3250.8	3259.0	3263.1	3254.9	3248.8	3283.6	3265.2	3250.8	3230.4	3224.2	3234.5
10°	3236.5	3257.0	3226.3	3267.2	3275.4	3250.8	3250.8	3224.2	3207.8	3197.6	3232.4
12.5°	3273.3	3238.5	3234.5	3254.9	3261.1	3271.3	3242.6	3228.3	3197.6	3201.7	3195.6
15°	3230.4	3244.7	3246.7	3250.8	3257.0	3281.5	3254.9	3224.2	3211.9	3168.9	3173.0
17.5°	3246.7	3232.4	3246.7	3293.8	3285.6	3304.1	3275.4	3228.3	3199.7	3175.1	3207.8
20°	3275.4	3269.3	3275.4	3332.7	3343.0	3359.3	3334.8	3291.8	3236.5	3207.8	3224.2
22.5°	3306.1	3302.0	3306.1	3361.4	3420.7	3441.2	3416.6	3316.3	3287.7	3234.5	3216.0
25°	3361.4	3365.5	3408.5	3469.9	3508.8	3547.7	3502.6	3431.0	3338.9	3306.1	3267.2
27.5°	3484.2	3494.4	3519.0	3609.1	3676.6	3711.4	3648.0	3549.7	3492.4	3424.8	3414.6
30°	3635.7	3635.7	3678.7	3756.5	3848.6	3901.8	3824.0	3707.3	3637.7	3600.9	3578.4
32.5°	3836.3	3813.8	3830.2	3967.3	4110.6	4155.7	4051.3	3908.0	3797.4	3748.3	3731.9
35°	4008.3	4022.6	4059.4	4206.8	4366.5	4470.9	4307.1	4120.9	4008.3	3963.2	3955.0
37.5°	4231.4	4256.0	4274.4	4477.1	4669.5	4708.4	4550.8	4401.3	4264.2	4227.3	4206.8
40°	4546.7	4530.3	4536.4	4685.9	4859.9	4884.4	4728.9	4622.4	4509.8	4487.3	4487.3
42.5°	4806.6	4788.2	4808.7	4864.0	4997.0	4978.6	4892.6	4814.8	4767.7	4743.2	4767.7
45°	4964.3	4960.2	4997.0	5038.0	5132.1	5070.7	5003.2	5015.5	4970.4	4929.5	4927.4
47.5°	5136.2	5109.6	5154.7	5216.1	5144.4	5115.8	5111.7	5138.3	5123.9	5052.3	5029.8
50°	5220.2	5209.9	5281.6	5353.2	5314.3	5248.8	5263.2	5306.1	5121.9	5025.7	4970.4
52.5°	5445.3	5447.4	5584.6	5623.4	5607.1	5510.9	5541.6	5424.9	5207.9	5072.8	5078.9
55°	5799.5	5785.2	5938.7	6053.3	6071.8	5948.9	5801.5	5637.8	5365.5	5228.4	5187.4
57°	5605.0	5637.8	5807.7	6147.5	6319.5	6174.1	5852.7	5553.8	5191.5	5025.7	4952.0
57.5°	5345.0	5398.3	5693.0	6034.9	6215.1	6202.8	5789.3	5398.3	5074.8	4816.9	4823.0
60°	3916.1	3926.4	4192.5	4735.0	5298.0	5310.2	4806.6	4288.7	3928.4	3648.0	3686.9
62.5°	2065.5	2112.6	2219.1	2655.1	3142.3	3261.1	2956.0	2689.9	2378.8	2165.9	2186.3
65°	1093.2	1087.0	1138.2	1261.0	1500.5	1562.0	1521.0	1310.2	1201.7	1166.9	1168.9
67.5°	888.5	898.7	892.5	898.7	915.1	941.7	935.5	943.7	949.9	960.1	958.1
70°	753.3	753.3	757.4	759.5	759.5	771.8	786.1	812.7	814.8	825.0	829.1
72.5°	593.7	589.6	595.7	610.0	612.1	622.3	642.8	659.2	665.3	665.3	653.0
75°	403.3	407.4	415.6	427.8	440.1	458.6	474.9	485.2	489.3	483.1	477.0
77.5°	227.2	231.3	237.5	255.9	270.2	286.6	305.0	315.3	325.5	327.5	315.3
80°	135.1	135.1	145.3	159.7	176.1	192.4	208.8	221.1	225.2	225.2	219.0
82.5°	81.9	83.9	92.1	106.5	120.8	131.0	145.3	155.6	163.8	161.7	157.6
85°	43.0	43.0	51.2	63.5	73.7	83.9	83.9	77.8	73.7	63.5	59.4
87.5°	14.3	12.3	16.4	16.4	14.3	16.4	16.4	18.4	18.4	18.4	18.4
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)