

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: P647914

Luminaire Tested: **GALN-SA5A-835-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647914
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-SA5A-835-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA 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: 15828.3 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

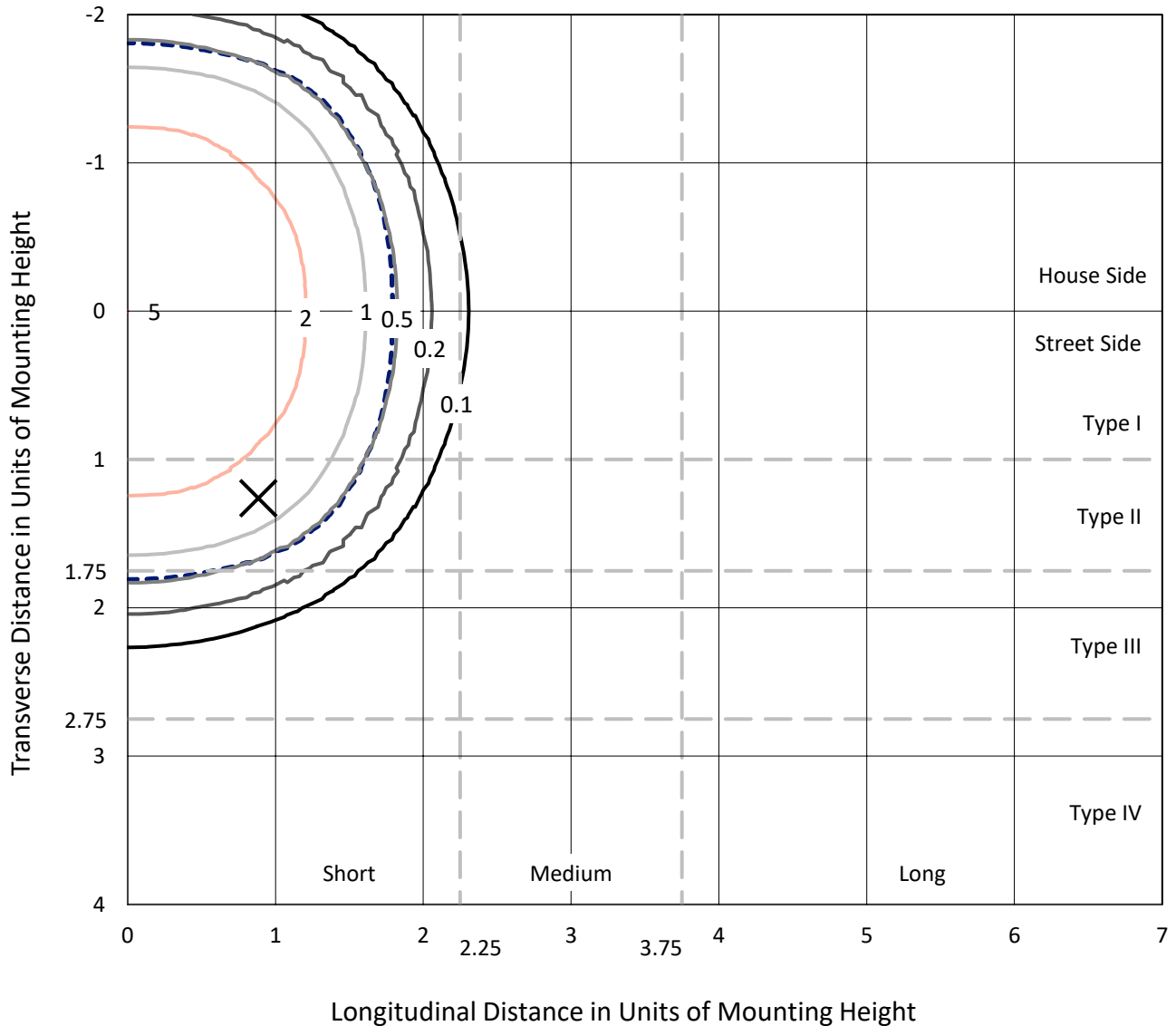
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

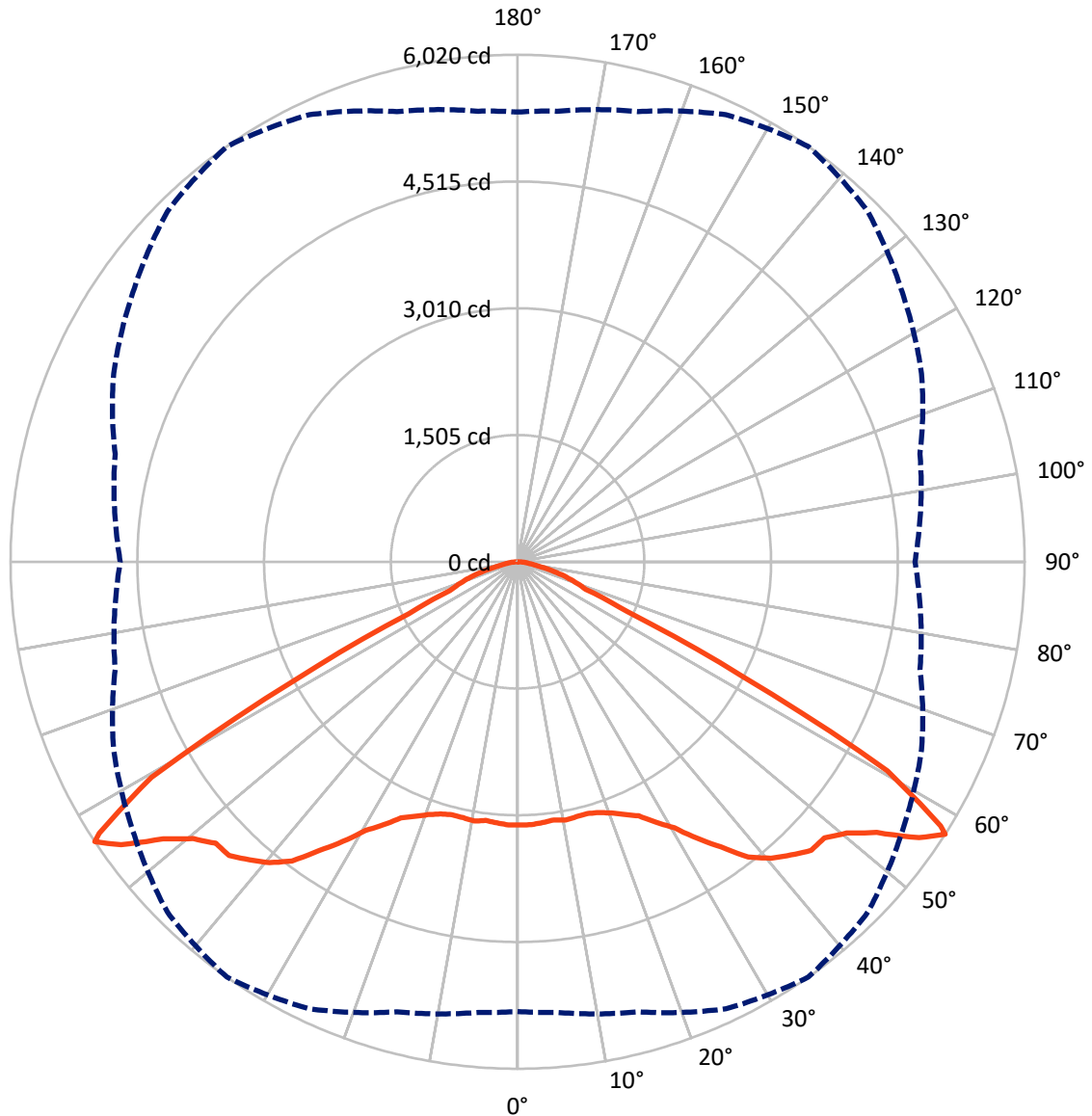
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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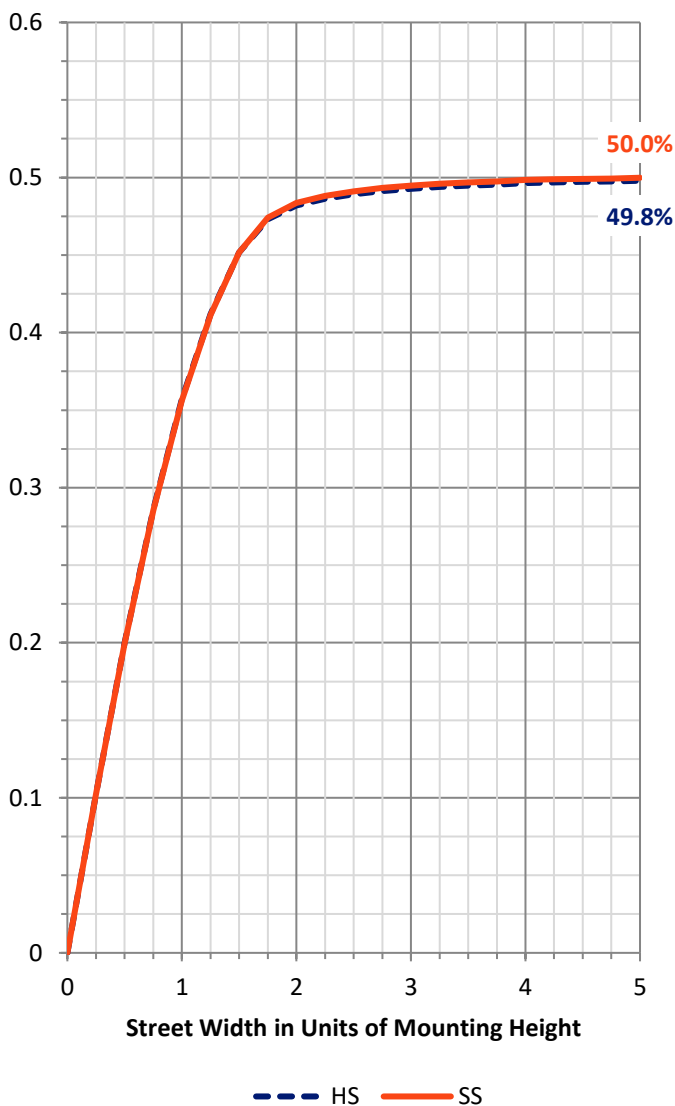
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7914.2	0.0	7914.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7914.2	0.0	7914.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	15828.3	0.0	15828.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	296.4	1.9
10°-20°	877.7	5.5
20°-30°	1532.9	9.7
30°-40°	2511.7	15.9
40°-50°	3682.8	23.3
50°-60°	4638.8	29.3
60°-70°	1744.6	11.0
70°-80°	463.9	2.9
80°-90°	79.5	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°	15828.3	100.0
0°-180°	15828.3	100.0

Coefficient of Utilization



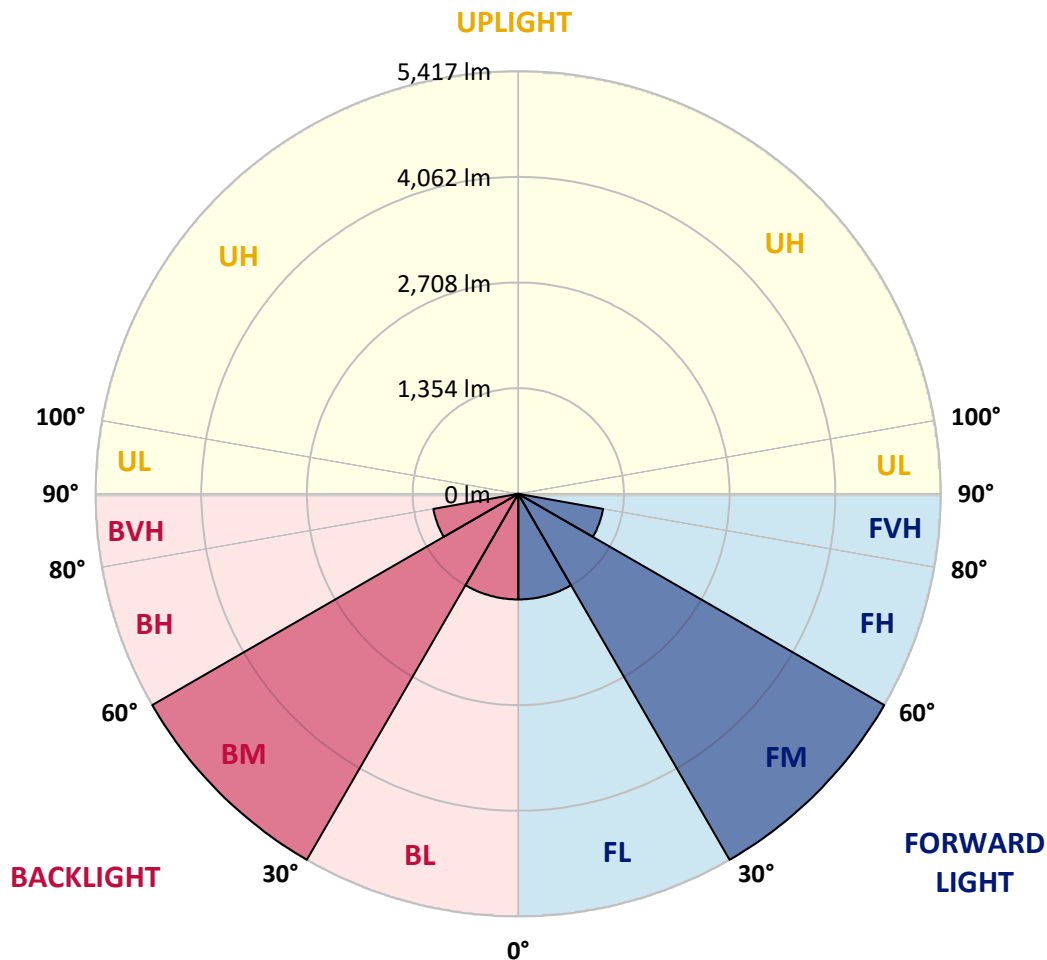
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1353.5	8.6			
FM (30°-60°)	5416.7	34.2			
FH (60°-80°)	1104.2	7.0			G1/1800
FVH (80°-90°)	39.8	0.3			G1/100
BL (0°-30°)	1353.5	8.6	B3/2500		
BM (30°-60°)	5416.7	34.2	B4/8500		
BH (60°-80°)	1104.2	7.0	B3/2500		G1/1800
BVH (80°-90°)	39.8	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°	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0	3126.0
2.5°	3110.4	3141.6	3127.9	3120.1	3126.0	3116.3	3100.6	3118.2	3114.3	3098.6	3092.8
5°	3102.6	3126.0	3110.4	3126.0	3110.4	3137.7	3129.9	3100.6	3135.8	3102.6	3114.3
7.5°	3096.8	3104.5	3108.4	3100.6	3094.8	3127.9	3110.4	3096.8	3077.3	3071.4	3081.1
10°	3083.1	3102.6	3073.4	3112.3	3120.1	3096.8	3096.8	3071.4	3055.8	3046.0	3079.1
12.5°	3118.2	3085.0	3081.1	3100.6	3106.5	3116.3	3088.9	3075.3	3046.0	3049.9	3044.1
15°	3077.3	3090.9	3092.8	3096.8	3102.6	3126.0	3100.6	3071.4	3059.7	3018.7	3022.6
17.5°	3092.8	3079.1	3092.8	3137.7	3129.9	3147.4	3120.1	3075.3	3048.0	3024.6	3055.8
20°	3120.1	3114.3	3120.1	3174.8	3184.5	3200.1	3176.7	3135.8	3083.1	3055.8	3071.4
22.5°	3149.4	3145.5	3149.4	3202.0	3258.6	3278.1	3254.7	3159.2	3131.8	3081.1	3063.6
25°	3202.0	3205.9	3246.9	3305.4	3342.5	3379.5	3336.6	3268.3	3180.5	3149.4	3112.3
27.5°	3319.1	3328.8	3352.2	3438.0	3502.4	3535.5	3475.0	3381.5	3326.8	3262.5	3252.7
30°	3463.4	3463.4	3504.3	3578.4	3666.2	3716.8	3642.8	3531.6	3465.3	3430.2	3408.7
32.5°	3654.4	3633.0	3648.6	3779.2	3915.8	3958.7	3859.3	3722.7	3617.4	3570.6	3555.0
35°	3818.3	3831.9	3867.0	4007.4	4159.5	4259.0	4103.0	3925.5	3818.3	3775.4	3767.6
37.5°	4030.8	4054.2	4071.8	4264.8	4448.1	4485.2	4335.0	4192.7	4062.0	4026.9	4007.4
40°	4331.2	4315.5	4321.4	4463.7	4629.5	4652.9	4504.7	4403.3	4296.0	4274.6	4274.6
42.5°	4578.8	4561.2	4580.7	4633.4	4760.2	4742.6	4660.7	4586.6	4541.7	4518.3	4541.7
45°	4728.9	4725.0	4760.2	4799.2	4888.8	4830.3	4766.0	4777.7	4734.8	4695.8	4693.9
47.5°	4892.7	4867.4	4910.3	4968.8	4900.6	4873.2	4869.3	4894.7	4881.1	4812.8	4791.3
50°	4972.7	4963.0	5031.2	5099.4	5062.4	5000.0	5013.6	5054.6	4879.1	4787.4	4734.8
52.5°	5187.2	5189.2	5319.9	5356.9	5341.3	5249.6	5278.9	5167.7	4961.0	4832.3	4838.2
55°	5524.6	5510.9	5657.2	5766.4	5783.9	5667.0	5526.6	5370.5	5111.2	4980.5	4941.5
57°	5339.4	5370.5	5532.4	5856.1	6019.9	5881.4	5575.3	5290.6	4945.4	4787.4	4717.3
57.5°	5091.7	5142.4	5423.2	5748.9	5920.4	5908.8	5514.8	5142.4	4834.2	4588.5	4594.4
60°	3730.5	3740.2	3993.8	4510.5	5046.8	5058.5	4578.8	4085.5	3742.2	3475.0	3512.1
62.5°	1967.6	2012.5	2113.9	2529.2	2993.4	3106.5	2815.9	2562.4	2266.0	2063.2	2082.7
65°	1041.3	1035.5	1084.2	1201.3	1429.4	1487.9	1448.9	1248.0	1144.7	1111.5	1113.5
67.5°	846.3	856.1	850.3	856.1	871.7	897.0	891.2	899.0	904.8	914.6	912.7
70°	717.6	717.6	721.5	723.5	723.5	735.2	748.9	774.2	776.1	785.9	789.8
72.5°	565.6	561.6	567.4	581.1	583.1	592.8	612.3	627.9	633.8	633.8	622.1
75°	384.1	388.1	395.9	407.6	419.3	436.8	452.4	462.2	466.0	460.2	454.4
77.5°	216.4	220.3	226.2	243.7	257.4	273.0	290.6	300.3	310.1	312.0	300.3
80°	128.7	128.7	138.4	152.1	167.7	183.3	198.9	210.6	214.5	214.5	208.7
82.5°	78.0	79.9	87.8	101.4	115.0	124.8	138.4	148.2	156.0	154.1	150.2
85°	41.0	41.0	48.8	60.4	70.2	79.9	79.9	74.1	70.2	60.4	56.5
87.5°	13.6	11.7	15.6	15.6	13.6	15.6	15.6	17.5	17.5	17.5	17.5
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)