

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: P459443

Luminaire Tested: **GALN-SA9A-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459443
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40420 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

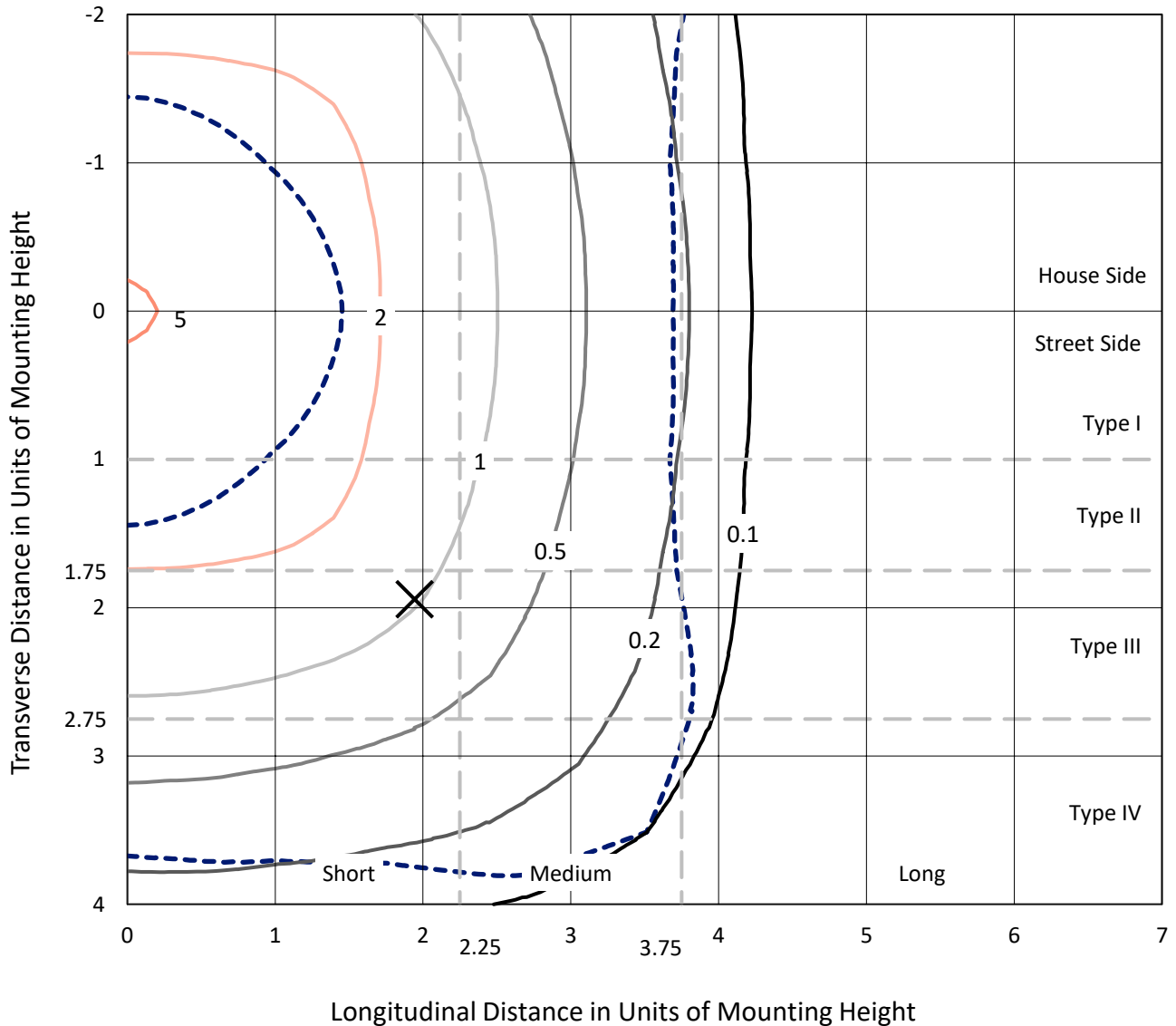
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

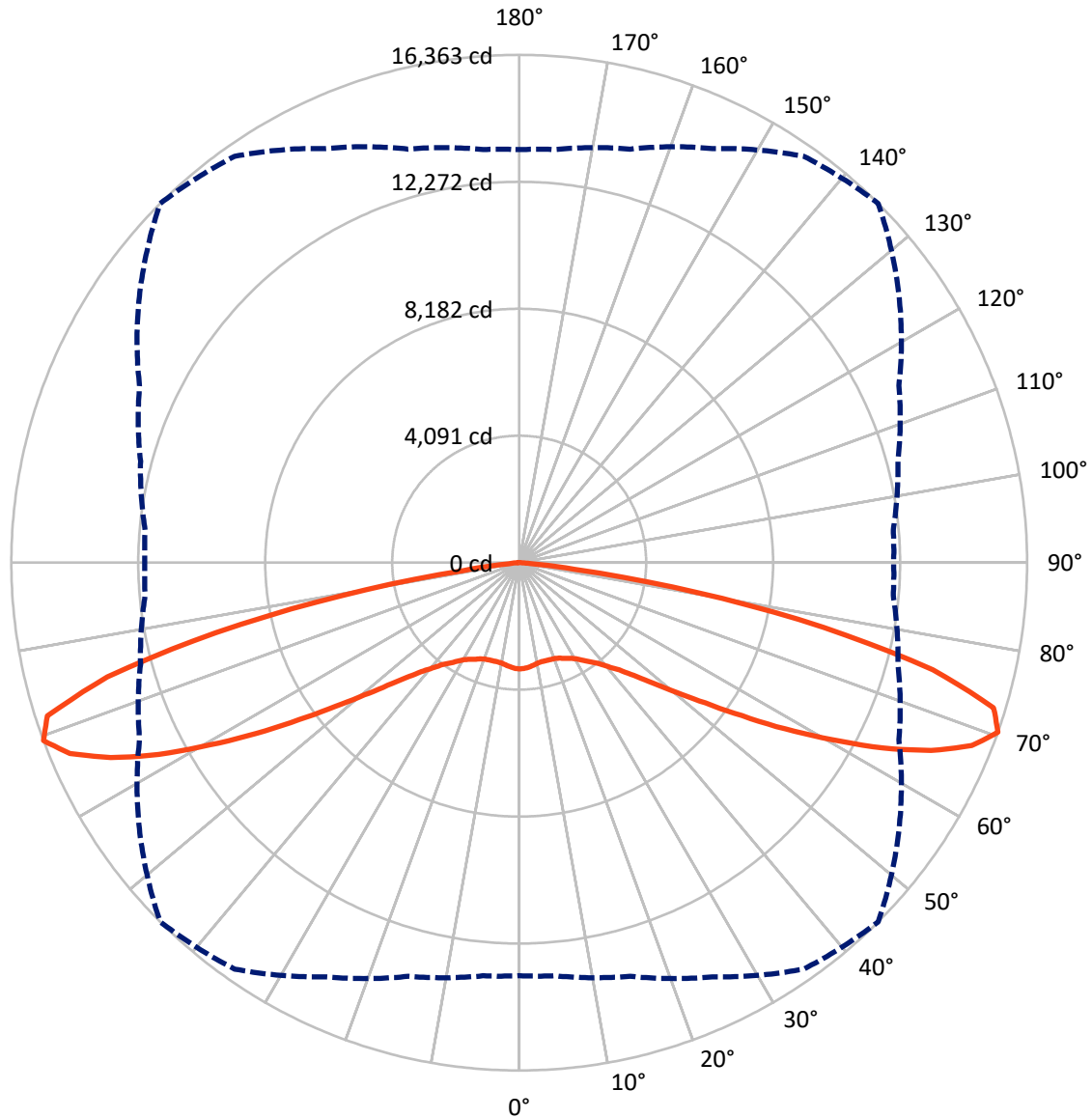
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 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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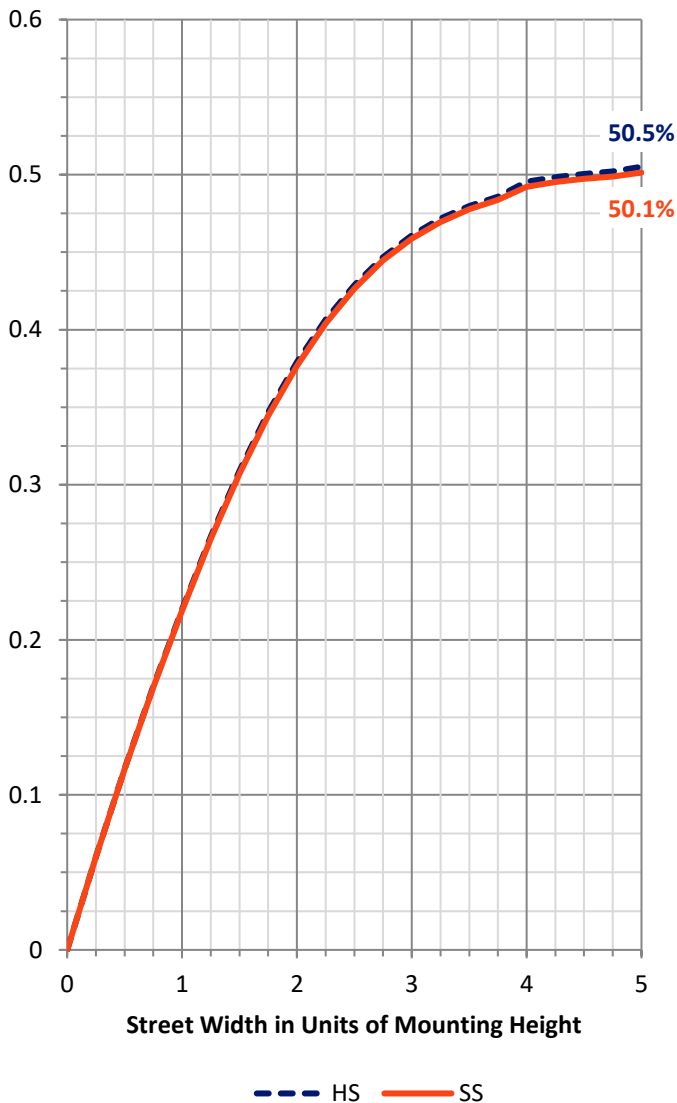
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20210.0	0.0	20210.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20210.0	0.0	20210.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40420.0	0.0	40420.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	0.8
10°-20°	936.9	2.3
20°-30°	1596.3	3.9
30°-40°	2474.2	6.1
40°-50°	4164.4	10.3
50°-60°	7576.9	18.7
60°-70°	12827.5	31.7
70°-80°	9929.0	24.6
80°-90°	595.0	1.5
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°	40420.0	100.0
0°-180°	40420.0	100.0



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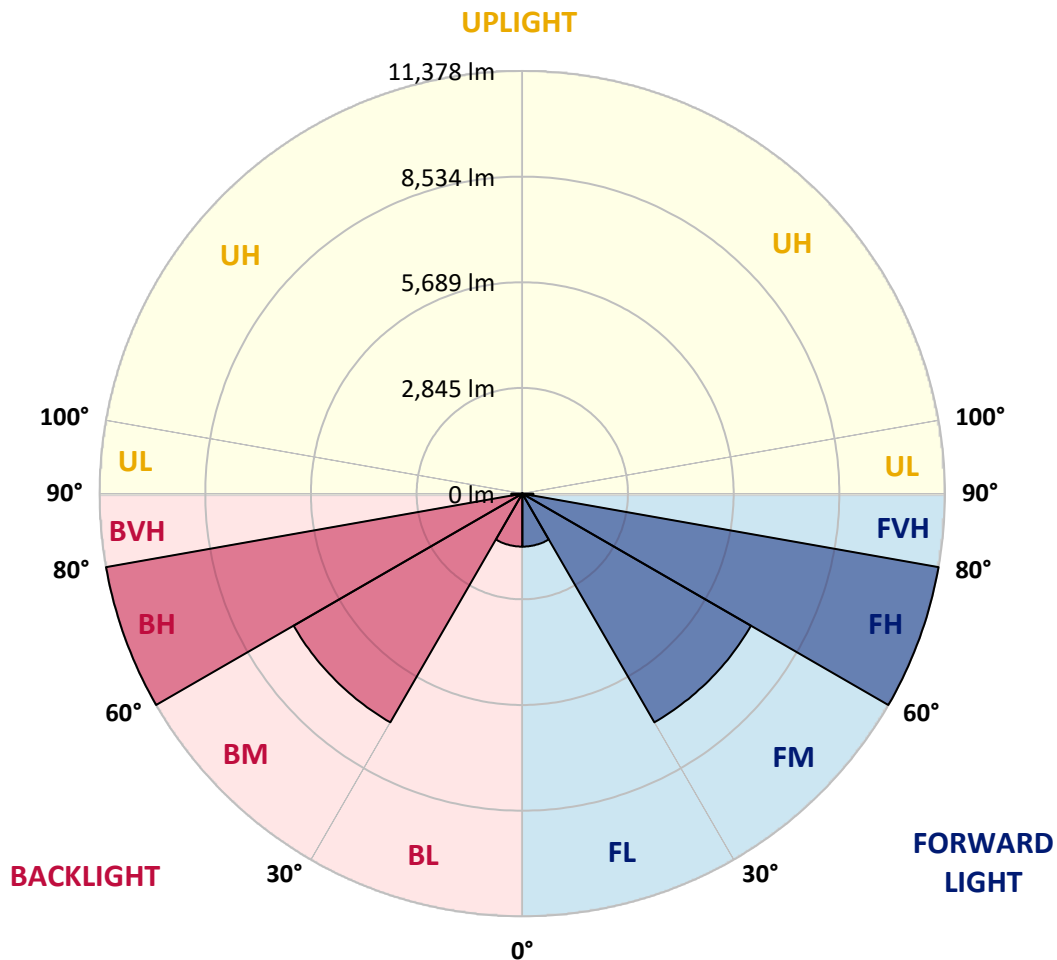
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1426.6	3.5			
FM	(30°-60°)	7107.7	17.6			
FH	(60°-80°)	11378.2	28.1			G4/12000
FVH	(80°-90°)	297.5	0.7			G3/500
BL	(0°-30°)	1426.6	3.5	B3/2500		
BM	(30°-60°)	7107.7	17.6	B4/8500		
BH	(60°-80°)	11378.2	28.1	B5		G4/12000
BVH	(80°-90°)	297.5	0.7			G3/500
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°	3422.0	3422.0	3422.0	3422.0	3422.0	3422.0	3422.0	3422.0	3422.0	3422.0	3422.0
2.5°	3413.5	3415.6	3415.6	3411.4	3409.2	3409.2	3407.1	3407.1	3413.5	3415.6	3417.8
5°	3383.6	3383.6	3383.6	3381.5	3377.2	3377.2	3372.9	3372.9	3375.1	3381.5	3377.2
7.5°	3343.1	3347.3	3347.3	3338.8	3332.4	3332.4	3330.3	3332.4	3334.5	3340.9	3338.8
10°	3330.3	3332.4	3321.7	3306.8	3296.1	3289.7	3291.8	3296.1	3306.8	3311.0	3313.2
12.5°	3338.8	3338.8	3319.6	3298.2	3279.0	3270.5	3268.3	3283.3	3302.5	3315.3	3319.6
15°	3349.5	3345.2	3321.7	3294.0	3274.7	3272.6	3270.5	3281.2	3308.9	3334.5	3336.7
17.5°	3355.9	3353.7	3323.8	3289.7	3279.0	3279.0	3276.9	3285.4	3315.3	3347.3	3349.5
20°	3377.2	3370.8	3336.7	3300.4	3291.8	3296.1	3289.7	3300.4	3332.4	3370.8	3379.4
22.5°	3419.9	3413.5	3379.4	3343.1	3338.8	3338.8	3336.7	3347.3	3381.5	3422.0	3428.5
25°	3471.1	3464.7	3432.7	3407.1	3411.4	3419.9	3415.6	3417.8	3445.5	3479.7	3490.4
27.5°	3539.5	3528.8	3501.0	3479.7	3492.5	3492.5	3492.5	3490.4	3507.4	3539.5	3550.1
30°	3622.7	3618.4	3588.6	3586.4	3597.1	3586.4	3586.4	3588.6	3590.7	3620.6	3631.3
32.5°	3731.6	3723.1	3708.1	3703.8	3733.7	3742.3	3712.4	3684.6	3699.6	3729.5	3735.9
35°	3910.9	3898.1	3876.8	3853.3	3876.8	3917.3	3853.3	3831.9	3870.4	3910.9	3915.2
37.5°	4154.3	4147.9	4113.7	4071.0	4068.9	4111.6	4045.4	4043.3	4115.9	4165.0	4171.4
40°	4459.5	4466.0	4423.3	4382.7	4361.3	4395.5	4344.3	4363.5	4433.9	4489.4	4485.2
42.5°	4888.6	4865.2	4799.0	4760.6	4737.1	4724.3	4711.5	4741.3	4820.3	4880.1	4927.1
45°	5390.3	5381.8	5298.5	5251.6	5200.3	5181.1	5176.8	5230.2	5326.3	5398.9	5405.3
47.5°	5958.2	5939.0	5885.6	5836.5	5817.3	5793.8	5772.4	5813.0	5909.1	5960.3	5975.2
50°	6543.1	6547.4	6547.4	6538.8	6558.0	6562.3	6504.7	6519.6	6573.0	6568.7	6564.4
52.5°	7211.3	7234.8	7345.8	7356.4	7448.2	7510.1	7405.5	7343.6	7324.4	7209.1	7217.7
55°	7996.9	8018.2	8184.7	8351.2	8598.9	8703.5	8483.6	8291.5	8154.8	7979.8	7988.3
57.5°	8976.7	8987.4	9145.4	9465.6	9858.4	10103.9	9717.5	9337.5	9060.0	8893.5	8827.3
60°	10031.3	10042.0	10272.5	10663.2	11273.8	11572.6	11094.4	10473.2	10123.1	9869.1	9886.2
62.5°	11297.2	11339.9	11547.0	12085.0	12825.7	13160.9	12526.9	11696.4	11222.5	10906.6	10919.4
65°	12652.8	12725.4	12951.7	13543.0	14226.2	14586.9	13809.9	12851.4	12262.2	11875.8	11916.3
67.5°	13532.4	13596.4	13923.0	14576.3	15428.0	15726.9	14723.6	13607.1	12870.6	12409.5	12324.1
70°	13308.2	13361.6	13797.1	14723.6	15985.2	16363.1	14941.3	13496.1	12629.3	12097.8	12063.6
72.5°	11747.7	11636.7	12272.8	13602.8	15349.0	15983.1	14256.0	12326.2	11235.3	10688.8	10624.8
75°	7785.5	8026.8	8966.1	10533.0	12985.9	13771.4	12168.2	9896.8	8524.2	8069.5	7999.0
77.5°	2602.3	2788.0	3622.7	5971.0	8852.9	10033.5	8865.7	6472.6	4579.1	3688.9	3706.0
80°	689.5	681.0	881.7	1641.6	3825.5	5810.9	4453.1	2192.4	1199.7	868.9	824.0
82.5°	247.6	277.5	356.5	454.7	1014.0	1806.0	1274.5	614.8	450.4	333.0	322.4
85°	108.9	106.7	153.7	181.5	254.0	337.3	298.9	260.4	228.4	151.6	140.9
87.5°	23.5	23.5	36.3	27.8	44.8	44.8	55.5	66.2	68.3	44.8	36.3
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)