

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: P459153

Luminaire Tested: **GALN-SA6C-735-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459153
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-SA6C-735-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40646 lumens
Efficiency: N/A
Efficacy: 126.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

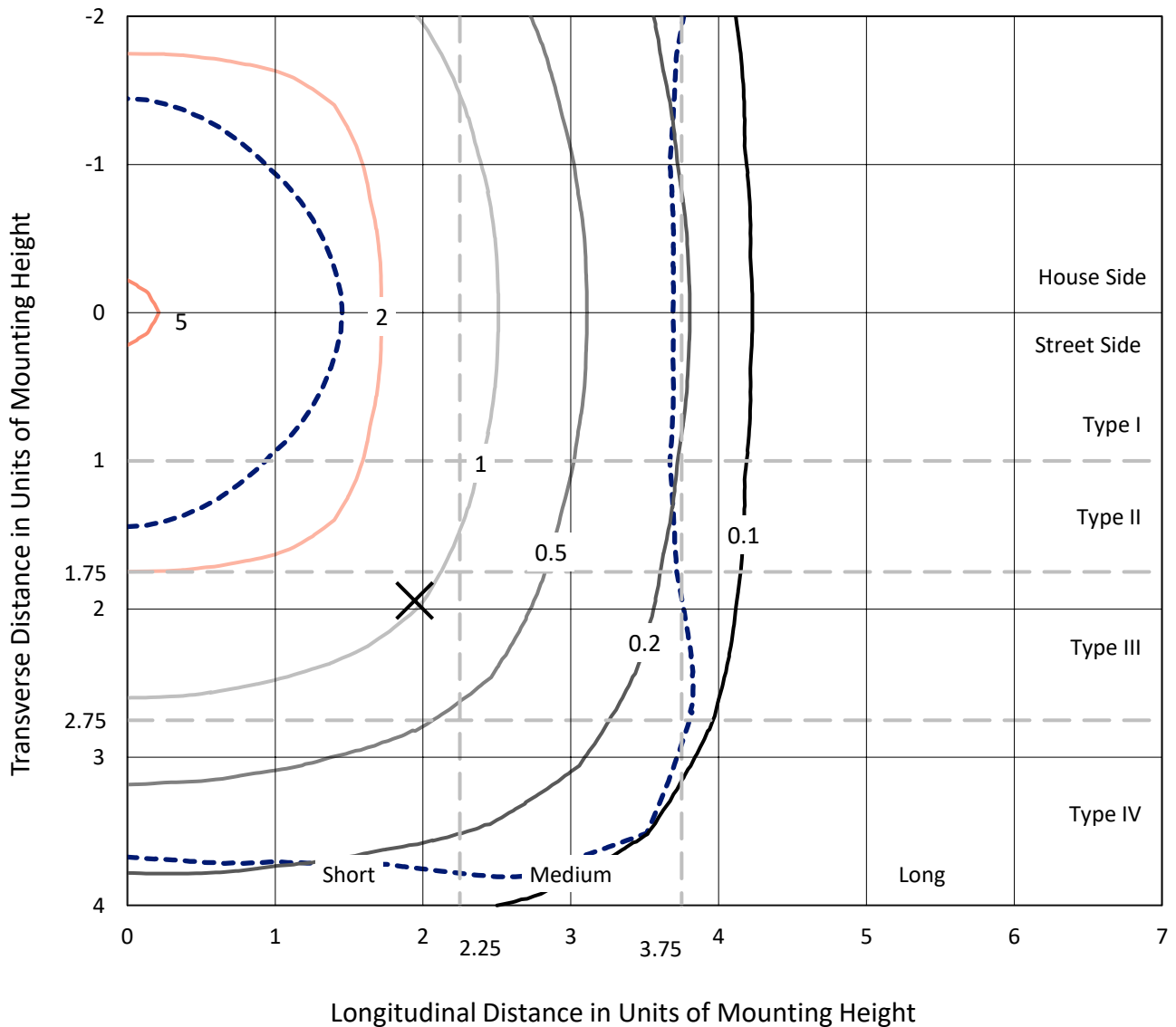
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

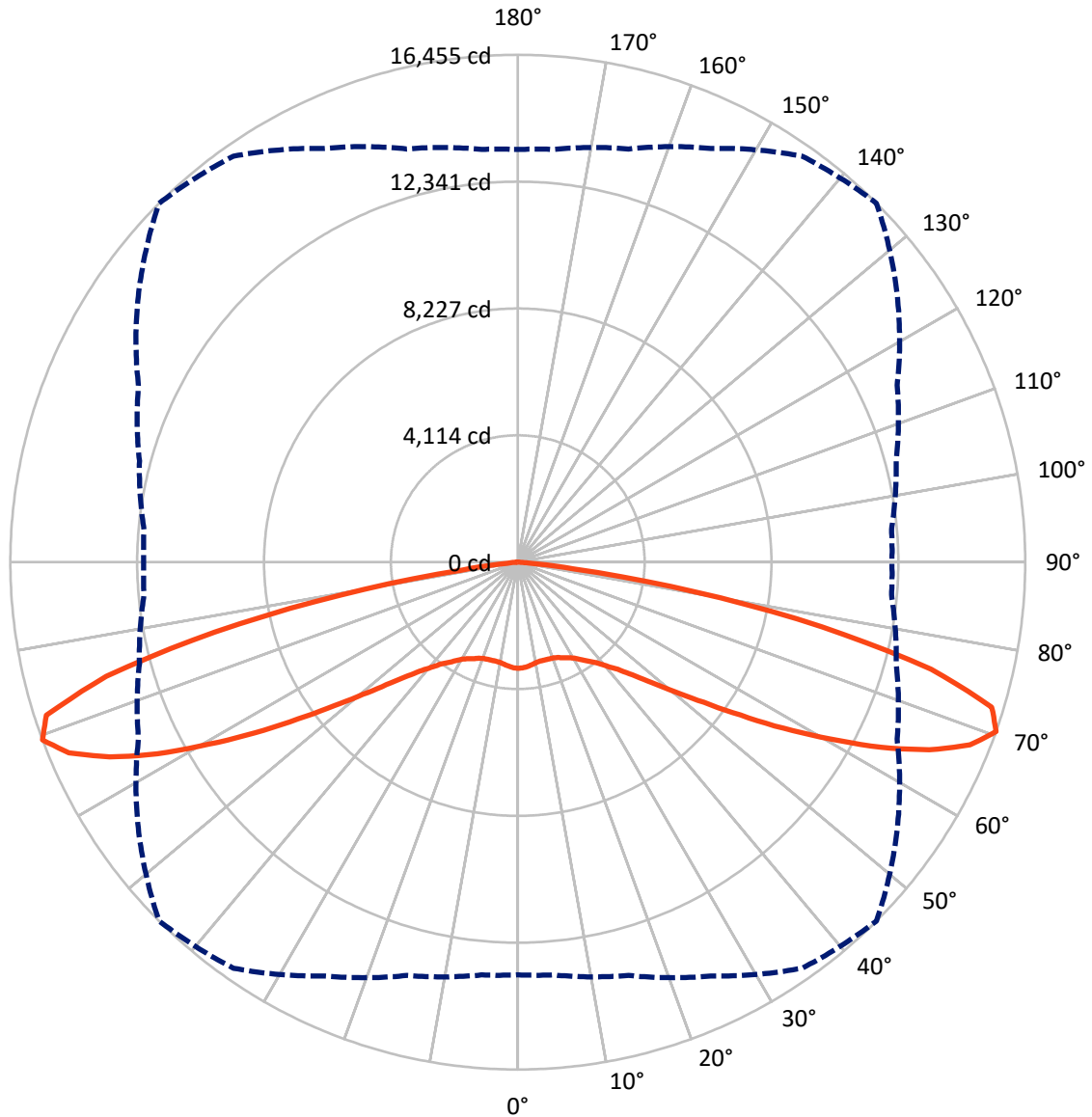
× Max cd
 - - - 1/2 Max cd



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	20323.0	0.0	20323.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20323.0	0.0	20323.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	40646.0	0.0	40646.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	0.8
10°-20°	942.1	2.3
20°-30°	1605.2	3.9
30°-40°	2488.0	6.1
40°-50°	4187.7	10.3
50°-60°	7619.3	18.7
60°-70°	12899.2	31.7
70°-80°	9984.5	24.6
80°-90°	598.3	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°	40646.0	100.0
0°-180°	40646.0	100.0

Coefficient of Utilization



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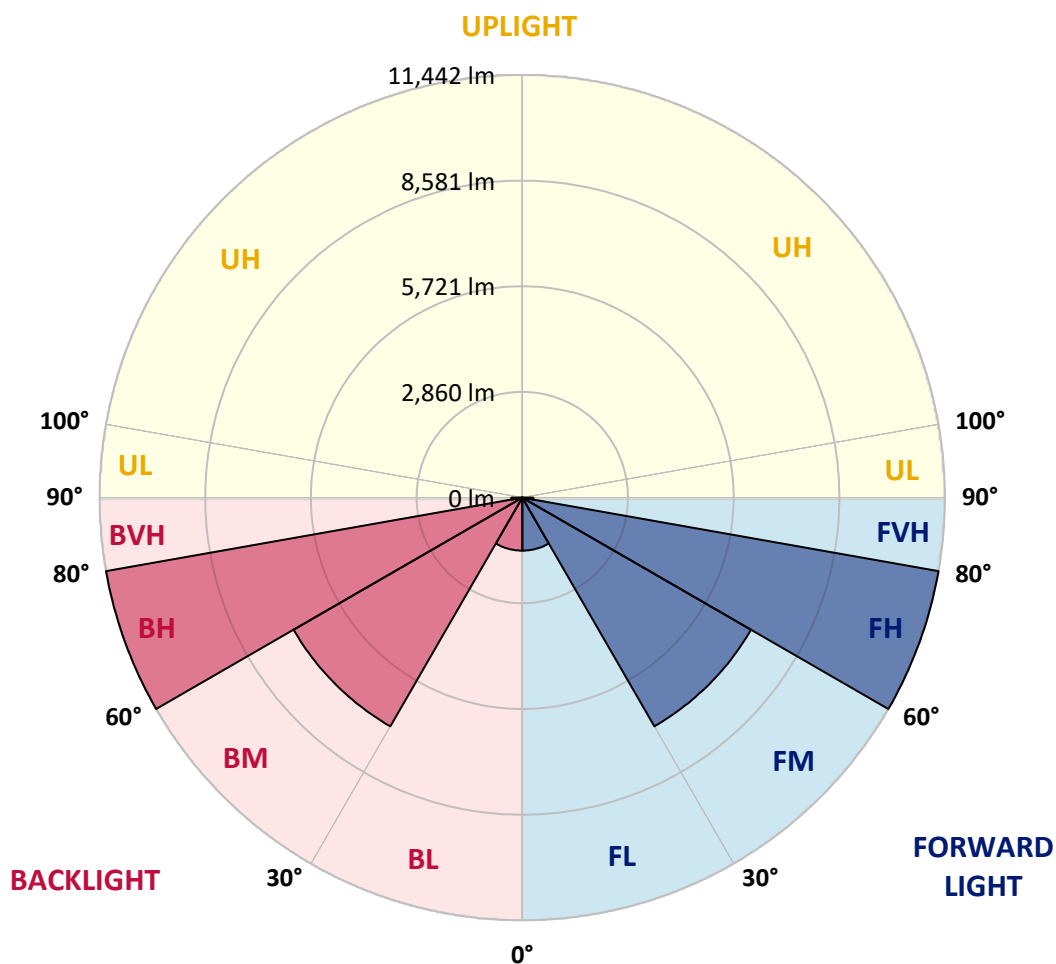
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.6	3.5			
FM (30°-60°)	7147.5	17.6			
FH (60°-80°)	11441.8	28.1			G4/12000
FVH (80°-90°)	299.1	0.7			G3/500
BL (0°-30°)	1434.6	3.5	B3/2500		
BM (30°-60°)	7147.5	17.6	B4/8500		
BH (60°-80°)	11441.8	28.1	B5		G4/12000
BVH (80°-90°)	299.1	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°	3441.2	3441.2	3441.2	3441.2	3441.2	3441.2	3441.2	3441.2	3441.2	3441.2	3441.2
2.5°	3432.6	3434.7	3434.7	3430.4	3428.3	3428.3	3426.2	3426.2	3432.6	3434.7	3436.9
5°	3402.5	3402.5	3402.5	3400.4	3396.1	3396.1	3391.8	3391.8	3394.0	3400.4	3396.1
7.5°	3361.8	3366.0	3366.0	3357.5	3351.0	3351.0	3348.9	3351.0	3353.2	3359.6	3357.5
10°	3348.9	3351.0	3340.3	3325.3	3314.5	3308.1	3310.2	3314.5	3325.3	3329.6	3331.7
12.5°	3357.5	3357.5	3338.1	3316.7	3297.4	3288.8	3286.6	3301.6	3321.0	3333.8	3338.1
15°	3368.2	3363.9	3340.3	3312.4	3293.1	3290.9	3288.8	3299.5	3327.4	3353.2	3355.3
17.5°	3374.6	3372.5	3342.4	3308.1	3297.4	3297.4	3295.2	3303.8	3333.8	3366.0	3368.2
20°	3396.1	3389.7	3355.3	3318.8	3310.2	3314.5	3308.1	3318.8	3351.0	3389.7	3398.2
22.5°	3439.0	3432.6	3398.2	3361.8	3357.5	3357.5	3355.3	3366.0	3400.4	3441.2	3447.6
25°	3490.6	3484.1	3451.9	3426.2	3430.4	3439.0	3434.7	3436.9	3464.8	3499.1	3509.9
27.5°	3559.3	3548.5	3520.6	3499.1	3512.0	3512.0	3512.0	3509.9	3527.1	3559.3	3570.0
30°	3643.0	3638.7	3608.6	3606.5	3617.2	3606.5	3606.5	3608.6	3610.8	3640.8	3651.6
32.5°	3752.5	3743.9	3728.8	3724.5	3754.6	3763.2	3733.1	3705.2	3720.3	3750.3	3756.7
35°	3932.8	3919.9	3898.4	3874.8	3898.4	3939.2	3874.8	3853.4	3892.0	3932.8	3937.1
37.5°	4177.5	4171.1	4136.7	4093.8	4091.6	4134.6	4068.0	4065.9	4138.9	4188.2	4194.7
40°	4484.5	4490.9	4448.0	4407.2	4385.7	4420.1	4368.6	4387.9	4458.7	4514.5	4510.2
42.5°	4916.0	4892.4	4825.8	4787.2	4763.6	4750.7	4737.8	4767.9	4847.3	4907.4	4954.6
45°	5420.5	5411.9	5328.1	5280.9	5229.4	5210.1	5205.8	5259.4	5356.1	5429.0	5435.5
47.5°	5991.5	5972.2	5918.5	5869.1	5849.8	5826.2	5804.7	5845.5	5942.1	5993.6	6008.7
50°	6579.7	6584.0	6584.0	6575.4	6594.7	6599.0	6541.0	6556.1	6609.7	6605.4	6601.1
52.5°	7251.6	7275.2	7386.8	7397.6	7489.9	7552.1	7446.9	7384.7	7365.4	7249.5	7258.0
55°	8041.6	8063.1	8230.5	8397.9	8647.0	8752.2	8531.0	8337.8	8200.4	8024.4	8033.0
57.5°	9026.9	9037.7	9196.5	9518.5	9913.5	10160.4	9771.8	9389.7	9110.7	8943.2	8876.7
60°	10087.4	10098.1	10330.0	10722.8	11336.8	11637.3	11156.5	10531.8	10179.7	9924.3	9941.4
62.5°	11360.4	11403.3	11611.6	12152.5	12897.5	13234.5	12596.9	11761.8	11285.3	10967.6	10980.4
65°	12723.6	12796.6	13024.1	13618.8	14305.7	14668.5	13887.1	12923.2	12330.7	11942.2	11983.0
67.5°	13608.0	13672.4	14000.9	14657.8	15514.3	15814.8	14805.9	13683.2	12942.5	12478.8	12393.0
70°	13382.6	13436.3	13874.2	14805.9	16074.6	16454.6	15024.8	13571.5	12700.0	12165.4	12131.1
72.5°	11813.4	11701.7	12341.5	13678.9	15434.9	16072.4	14335.8	12395.1	11298.2	10748.6	10684.2
75°	7829.1	8071.6	9016.2	10591.9	13058.5	13848.4	12236.3	9952.2	8571.8	8114.6	8043.7
77.5°	2616.8	2803.6	3643.0	6004.4	8902.4	10089.6	8915.3	6508.8	4604.7	3709.5	3726.7
80°	693.4	684.8	886.6	1650.8	3846.9	5843.4	4478.0	2204.7	1206.5	873.7	828.6
82.5°	249.0	279.1	358.5	457.2	1019.7	1816.1	1281.6	618.3	453.0	334.9	324.2
85°	109.5	107.3	154.6	182.5	255.5	339.2	300.5	261.9	229.7	152.4	141.7
87.5°	23.6	23.6	36.5	27.9	45.1	45.1	55.8	66.5	68.7	45.1	36.5
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)