

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: P529838

Luminaire Tested: **GALN-SA5A-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5A-735-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18099 lumens  
Efficiency: N/A  
Efficacy: 117.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

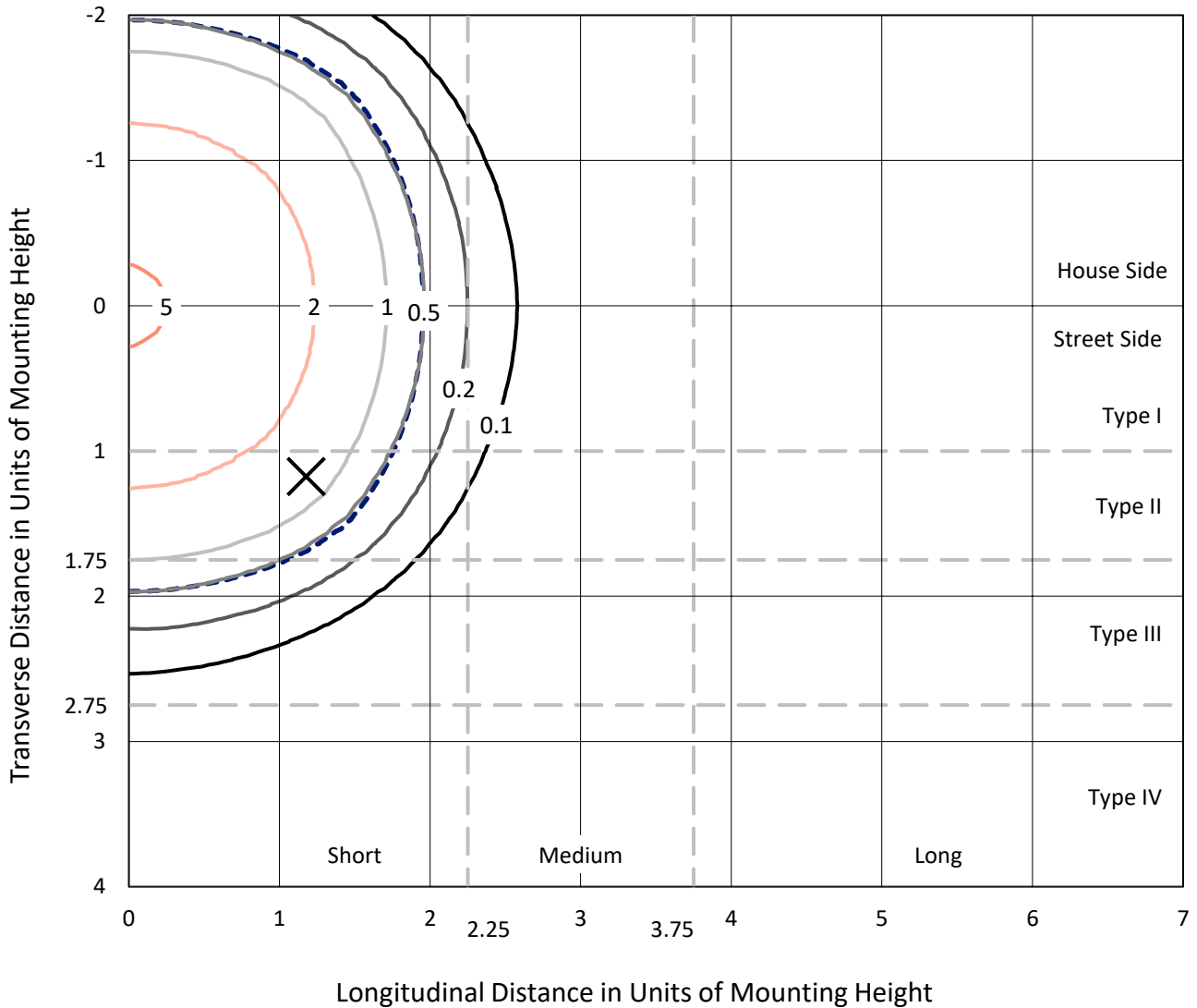
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

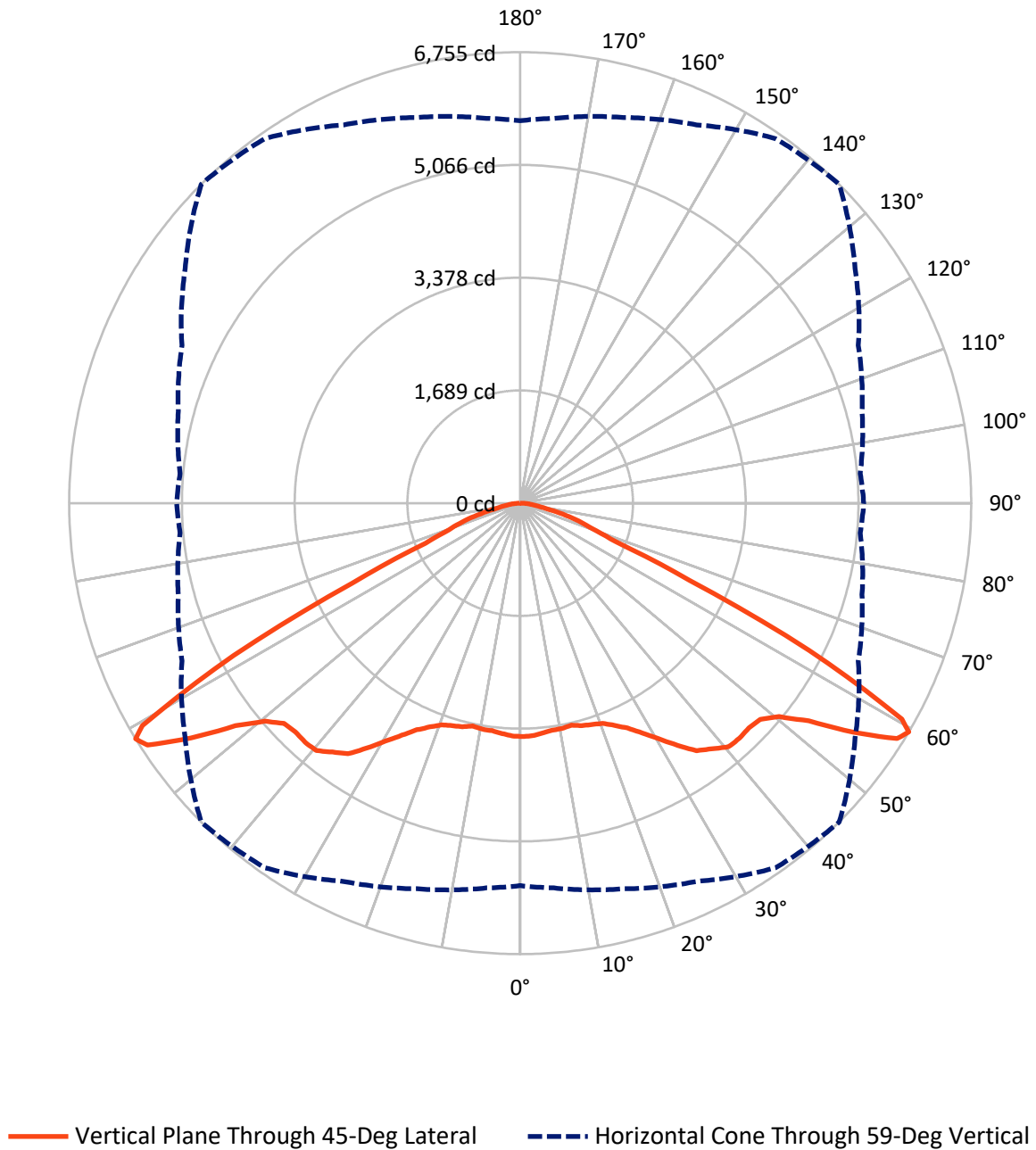
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9049.5	0.0	9049.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9049.5	0.0	9049.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18099.0	0.0	18099.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	329.5	1.8
10°-20°	980.0	5.4
20°-30°	1711.2	9.5
30°-40°	2733.1	15.1
40°-50°	3723.0	20.6
50°-60°	5034.5	27.8
60°-70°	2760.9	15.3
70°-80°	706.3	3.9
80°-90°	120.5	0.7
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°	18099.0	100.0
0°-180°	18099.0	100.0

**Coefficient of Utilization**



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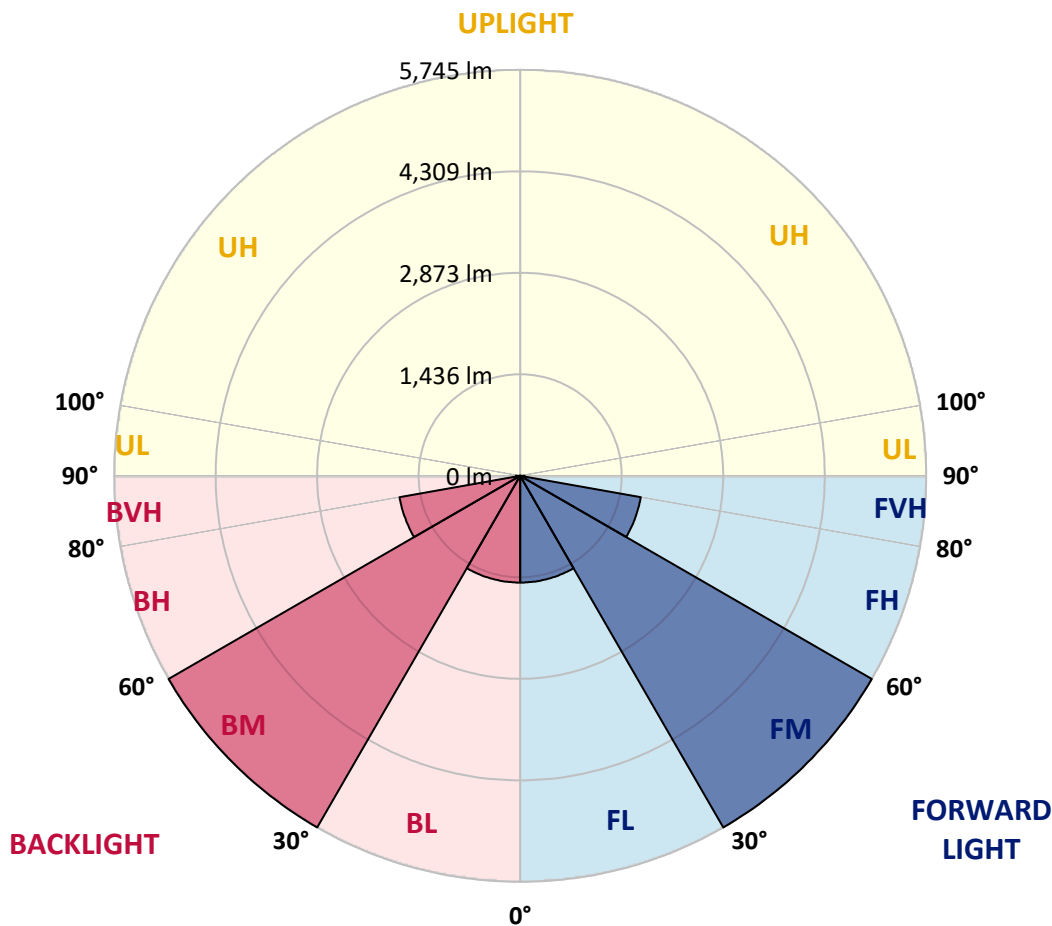
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1510.4	8.3			
FM (30°-60°)	5745.3	31.7			
FH (60°-80°)	1733.6	9.6			G1/1800
FVH (80°-90°)	60.2	0.3			G1/100
BL (0°-30°)	1510.4	8.3	B3/2500		
BM (30°-60°)	5745.3	31.7	B4/8500		
BH (60°-80°)	1733.6	9.6	B3/2500		G1/1800
BVH (80°-90°)	60.2	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°	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9	3495.9
2.5°	3475.0	3500.5	3481.9	3498.2	3495.9	3488.9	3477.3	3470.3	3461.1	3475.0	3451.8
5°	3461.1	3481.9	3502.8	3475.0	3475.0	3461.1	3454.1	3440.2	3440.2	3437.9	3435.5
7.5°	3484.3	3463.4	3454.1	3458.7	3463.4	3433.2	3454.1	3426.3	3403.1	3419.3	3437.9
10°	3463.4	3472.7	3437.9	3454.1	3428.6	3433.2	3419.3	3437.9	3412.4	3412.4	3412.4
12.5°	3484.3	3458.7	3470.3	3458.7	3451.8	3412.4	3430.9	3410.0	3407.7	3430.9	3410.0
15°	3526.0	3484.3	3475.0	3451.8	3458.7	3458.7	3440.2	3442.5	3417.0	3430.9	3435.5
17.5°	3512.1	3488.9	3481.9	3454.1	3477.3	3484.3	3449.5	3426.3	3442.5	3440.2	3437.9
20°	3523.7	3533.0	3526.0	3530.7	3539.9	3521.4	3488.9	3456.4	3435.5	3465.7	3463.4
22.5°	3597.9	3588.7	3584.0	3579.4	3595.6	3614.2	3570.1	3519.1	3519.1	3539.9	3549.2
25°	3658.2	3655.9	3653.6	3674.5	3730.2	3730.2	3674.5	3609.5	3593.3	3607.2	3595.6
27.5°	3746.4	3771.9	3762.6	3799.7	3880.9	3899.5	3825.3	3748.7	3704.6	3688.4	3709.3
30°	3948.2	3918.1	3925.0	3964.5	4036.4	4096.7	3983.0	3901.8	3841.5	3839.2	3848.5
32.5°	4082.8	4106.0	4126.8	4163.9	4277.6	4324.0	4187.1	4054.9	4017.8	3996.9	4003.9
35°	4351.8	4331.0	4326.3	4363.4	4477.1	4553.7	4382.0	4266.0	4217.3	4263.7	4263.7
37.5°	4607.0	4549.0	4505.0	4553.7	4658.1	4667.3	4521.2	4458.6	4433.0	4486.4	4484.1
40°	4727.6	4723.0	4620.9	4648.8	4788.0	4801.9	4665.0	4590.8	4586.1	4655.7	4725.3
42.5°	4852.9	4808.8	4706.8	4725.3	4811.2	4815.8	4685.9	4665.0	4716.0	4783.3	4788.0
45°	4873.8	4836.7	4771.7	4725.3	4788.0	4801.9	4725.3	4739.2	4743.9	4825.1	4825.1
47.5°	4915.5	4910.9	4873.8	4839.0	4850.6	4839.0	4790.3	4811.2	4880.8	4920.2	4901.6
50°	5031.5	4982.8	5019.9	4989.8	4992.1	5024.6	4980.5	5001.4	4987.5	4952.7	4929.5
52.5°	5286.7	5263.5	5296.0	5316.9	5340.1	5414.3	5363.3	5251.9	5147.5	5054.7	5052.4
55°	5660.2	5676.4	5739.1	5845.8	5936.2	6054.5	5808.7	5541.9	5374.9	5228.7	5238.0
57.5°	6012.8	6001.2	6087.0	6330.6	6595.0	6655.4	6172.9	5792.4	5521.0	5428.2	5388.8
59°	5729.8	5785.5	5980.3	6251.7	6667.0	6755.1	6124.1	5588.3	5300.6	5112.7	5145.2
60°	5284.4	5305.3	5479.2	5857.4	6418.7	6569.5	5797.1	5272.8	4890.0	4781.0	4829.7
62.5°	3734.8	3718.6	3843.8	4152.4	4655.7	4859.9	4310.1	3941.3	3700.0	3579.4	3607.2
65°	1985.7	2059.9	2111.0	2303.5	2570.3	2786.0	2558.7	2398.6	2264.1	2164.3	2162.0
67.5°	1340.8	1331.5	1343.1	1387.2	1477.7	1538.0	1533.4	1452.2	1440.6	1422.0	1442.9
70°	1129.7	1125.1	1104.2	1104.2	1122.8	1136.7	1152.9	1162.2	1180.8	1203.9	1201.6
72.5°	916.3	904.7	890.8	883.8	907.0	914.0	934.9	944.1	960.4	958.1	978.9
75°	605.5	605.5	621.7	640.3	647.2	661.1	663.4	691.3	691.3	695.9	677.4
77.5°	338.7	329.4	341.0	359.6	375.8	401.3	426.8	447.7	459.3	454.7	454.7
80°	197.2	197.2	208.8	229.7	250.5	273.7	292.3	308.5	320.1	315.5	306.2
82.5°	122.9	122.9	134.5	155.4	171.7	185.6	211.1	232.0	245.9	241.3	229.7
85°	62.6	62.6	76.6	90.5	111.3	120.6	118.3	109.0	106.7	95.1	95.1
87.5°	16.2	16.2	23.2	25.5	20.9	23.2	23.2	23.2	23.2	23.2	25.5
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)