

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: P646980

Luminaire Tested: **GALN-SA6C-835-U-5MQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-835-U-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34236.7 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

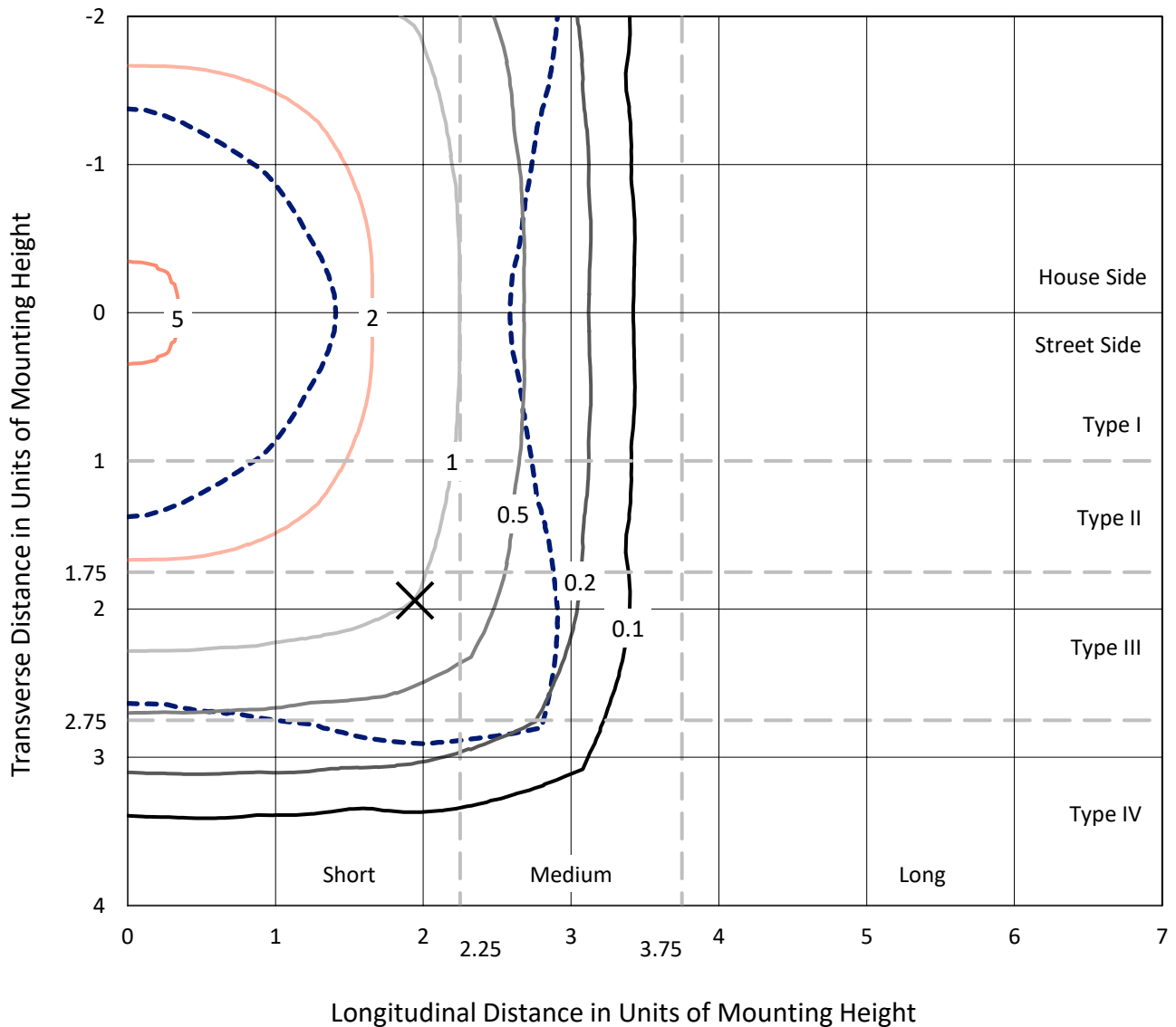
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

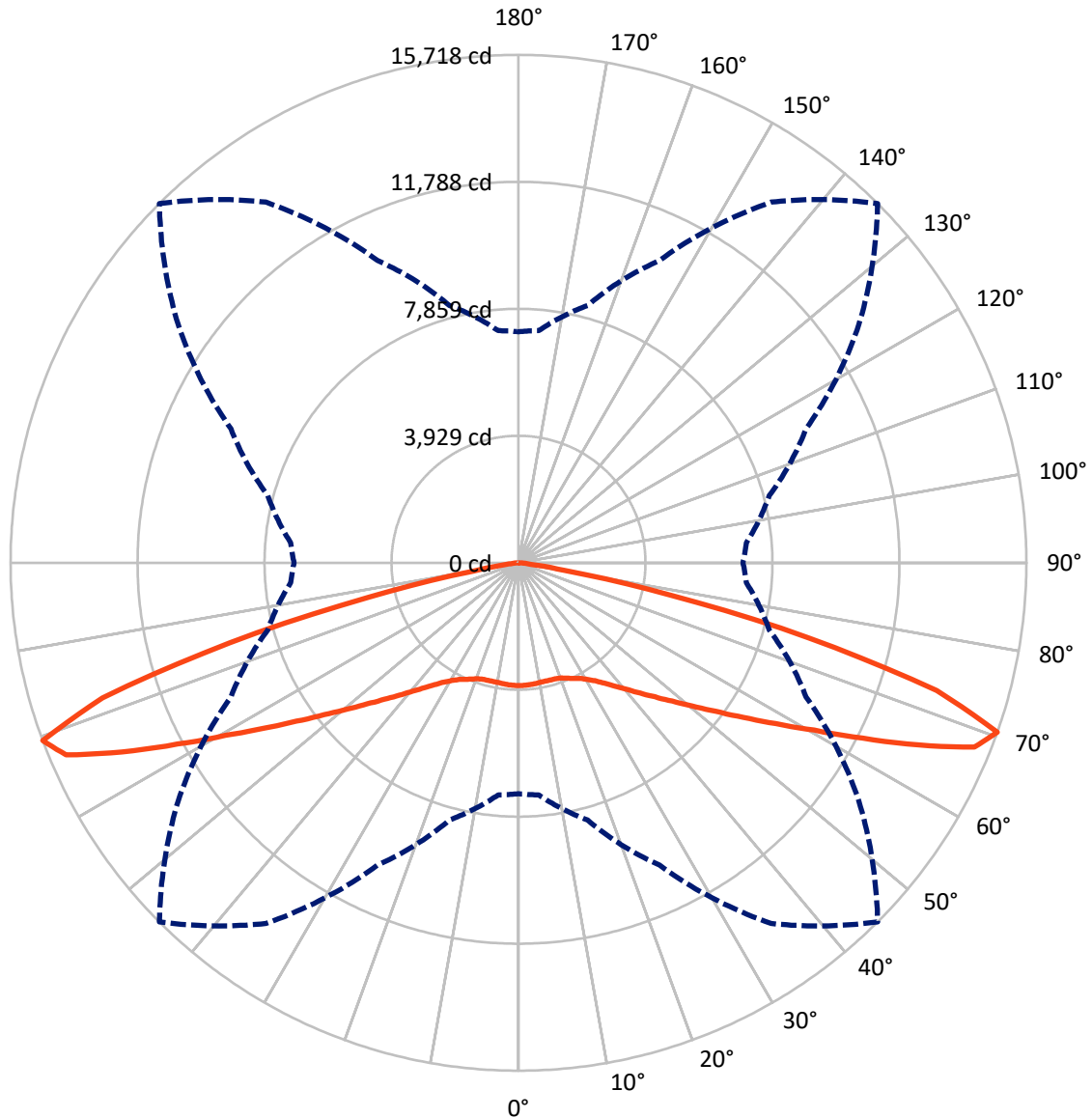
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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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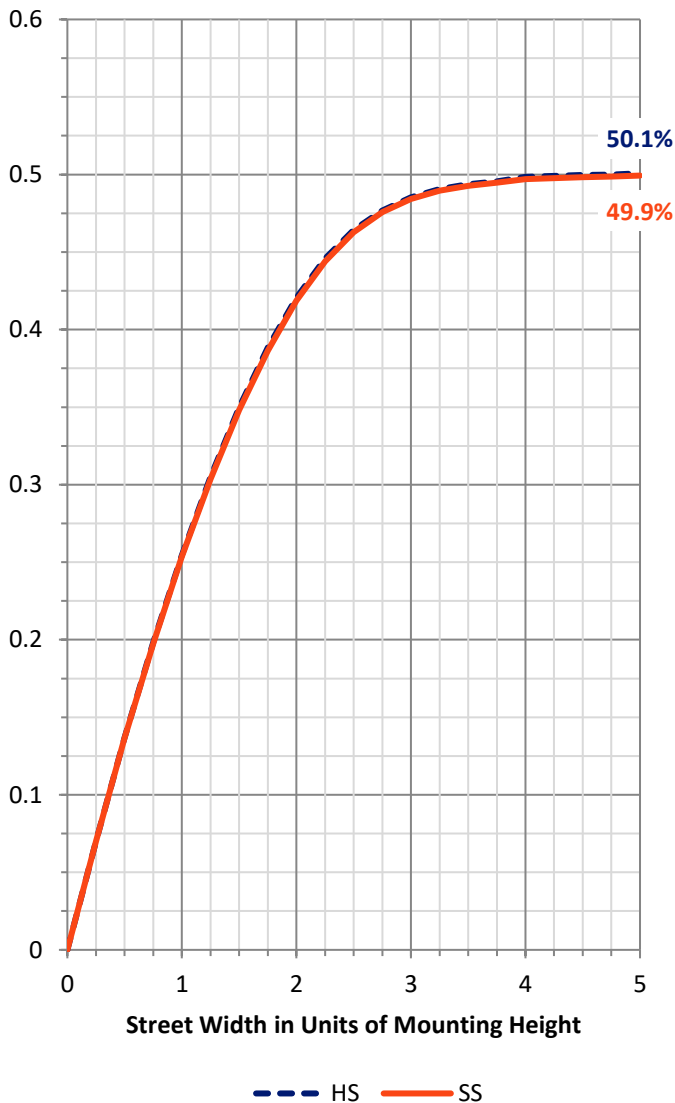
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	17118.3	0.0	17118.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17118.3	0.0	17118.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	34236.7	0.0	34236.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	360.5	1.1
10°-20°	1057.9	3.1
20°-30°	1809.4	5.3
30°-40°	2871.9	8.4
40°-50°	4633.1	13.5
50°-60°	7538.1	22.0
60°-70°	10927.5	31.9
70°-80°	4847.1	14.2
80°-90°	191.2	0.6
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°	34236.7	100.0
0°-180°	34236.7	100.0

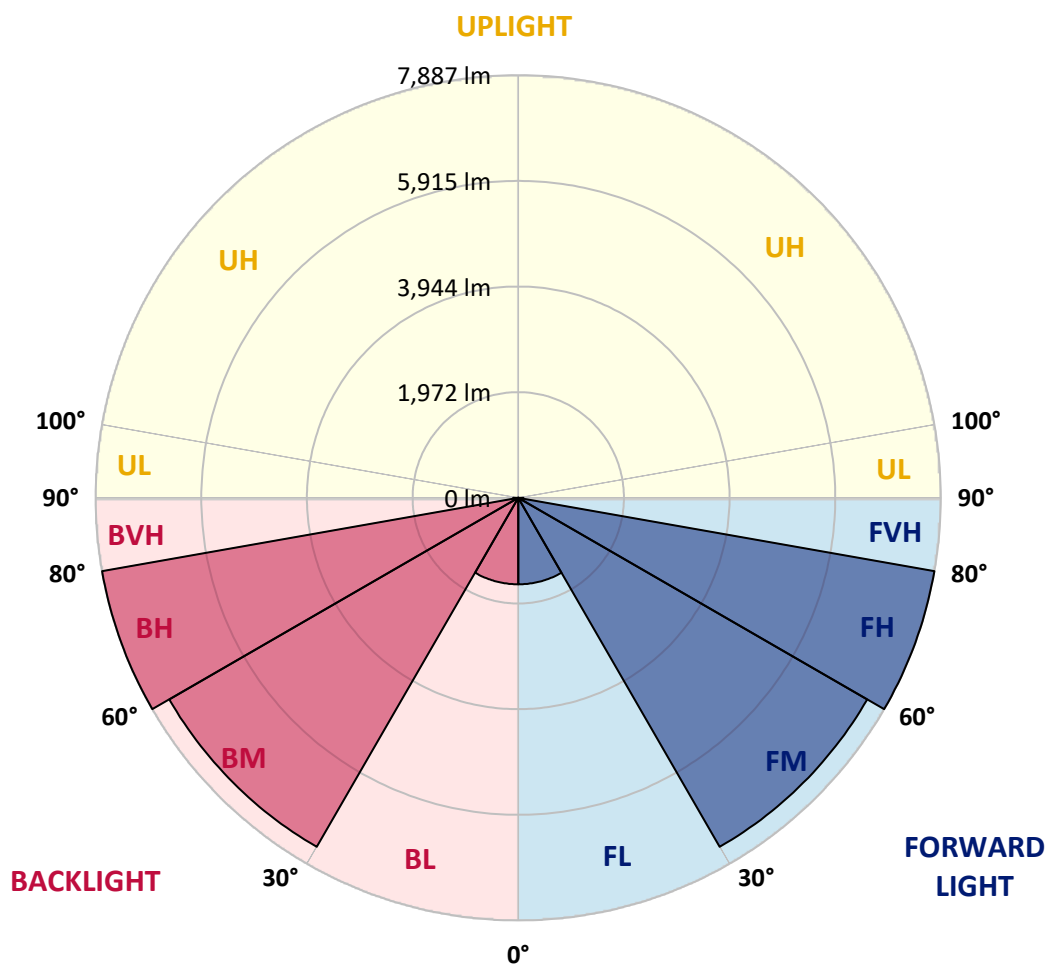


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1613.9	4.7			
FM (30°-60°)	7521.5	22.0			
FH (60°-80°)	7887.3	23.0			G4/12000
FVH (80°-90°)	95.6	0.3			G1/100
BL (0°-30°)	1613.9	4.7	B3/2500		
BM (30°-60°)	7521.5	22.0	B4/8500		
BH (60°-80°)	7887.3	23.0	B5		G4/12000
BVH (80°-90°)	95.6	0.3			G1/100
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°	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9	3801.9
2.5°	3801.9	3805.5	3800.1	3796.4	3794.6	3794.6	3792.8	3794.6	3805.5	3807.3	3801.9
5°	3791.0	3794.6	3792.8	3789.2	3787.4	3787.4	3785.6	3783.8	3792.8	3796.4	3794.6
7.5°	3776.6	3778.4	3776.6	3774.8	3776.6	3774.8	3769.4	3765.8	3773.0	3773.0	3771.2
10°	3751.3	3754.9	3753.1	3754.9	3758.5	3758.5	3751.3	3744.1	3745.9	3742.3	3742.3
12.5°	3720.7	3726.1	3727.9	3735.1	3744.1	3754.9	3738.7	3722.5	3718.9	3717.0	3715.2
15°	3700.8	3706.2	3713.4	3720.7	3736.9	3760.4	3736.9	3711.6	3704.4	3697.2	3693.6
17.5°	3695.4	3702.6	3713.4	3724.3	3745.9	3769.4	3749.5	3724.3	3706.2	3695.4	3691.8
20°	3709.8	3715.2	3731.5	3751.3	3782.0	3805.5	3785.6	3758.5	3731.5	3715.2	3709.8
22.5°	3738.7	3747.7	3767.6	3803.7	3847.0	3881.3	3854.2	3809.1	3765.8	3744.1	3736.9
25°	3801.9	3809.1	3832.5	3881.3	3931.8	3964.3	3935.4	3883.1	3823.5	3794.6	3785.6
27.5°	3897.5	3908.3	3933.6	3991.3	4032.8	4050.9	4031.0	3994.9	3951.6	3920.9	3913.7
30°	4032.8	4045.4	4083.3	4144.7	4171.7	4182.6	4173.5	4150.1	4119.4	4086.9	4079.7
32.5°	4215.0	4222.2	4265.5	4323.3	4348.5	4352.1	4341.3	4330.5	4280.0	4225.9	4222.2
35°	4418.9	4431.5	4483.8	4552.4	4575.9	4577.7	4556.0	4539.8	4480.2	4436.9	4436.9
37.5°	4689.5	4695.0	4745.5	4823.1	4848.3	4841.1	4830.3	4815.9	4752.7	4696.8	4698.6
40°	5007.1	5017.9	5061.3	5151.5	5151.5	5142.5	5149.7	5138.8	5075.7	5021.6	5023.4
42.5°	5384.2	5389.7	5442.0	5537.6	5530.4	5512.4	5519.6	5505.1	5465.4	5404.1	5382.4
45°	5786.6	5808.3	5898.5	5990.5	5976.1	5918.4	5947.2	5943.6	5907.5	5815.5	5820.9
47.5°	6272.0	6308.1	6394.7	6504.8	6488.6	6398.3	6430.8	6452.5	6402.0	6300.9	6282.9
50°	6818.8	6842.2	6970.3	7073.2	7058.7	6963.1	7037.1	7040.7	6914.4	6771.9	6771.9
52.5°	7401.5	7425.0	7598.2	7758.8	7767.8	7628.9	7688.4	7684.8	7479.1	7291.5	7255.4
55°	8054.7	8065.5	8289.3	8525.7	8576.2	8440.9	8448.1	8375.9	8108.9	7890.5	7870.7
57.5°	8729.6	8769.3	9016.5	9323.2	9473.0	9390.0	9352.1	9159.0	8901.0	8650.2	8637.6
60°	9476.6	9478.4	9799.6	10162.2	10465.4	10521.3	10366.1	10108.1	9774.3	9442.3	9427.9
62.5°	9994.4	10072.0	10478.0	11091.5	11634.6	11948.6	11539.0	10997.7	10340.8	9805.0	9750.9
65°	10100.9	10153.2	10772.1	11811.5	12921.1	13597.8	12650.5	11499.3	10378.7	9664.3	9628.2
67.5°	9240.2	9296.2	10129.7	11724.9	13823.3	15210.9	13372.2	11257.5	9736.4	8852.3	8781.9
70°	7147.1	7210.3	8240.6	10321.0	13623.0	15717.9	12858.0	9819.4	8029.5	7075.0	6946.9
72.5°	3800.1	4032.8	4913.3	7084.0	11057.2	13532.8	10542.9	7165.2	5178.5	4233.1	4063.5
75°	1387.6	1416.4	1907.2	3141.4	6432.6	9279.9	6679.8	3417.5	1964.9	1517.5	1439.9
77.5°	573.8	572.0	627.9	949.1	2336.6	4752.7	2607.3	1003.3	626.1	579.2	572.0
80°	339.2	339.2	373.5	395.2	615.3	1434.5	687.5	447.5	375.3	342.8	348.3
82.5°	151.6	160.6	236.4	249.0	297.7	393.4	332.0	285.1	245.4	169.6	153.4
85°	83.0	72.2	124.5	129.9	142.6	146.2	157.0	155.2	142.6	83.0	84.8
87.5°	16.2	19.8	36.1	27.1	30.7	27.1	36.1	50.5	52.3	28.9	23.5
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)