

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: P529370

Luminaire Tested: **GALN-SA4C-735-U-5WQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529370  
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-SA4C-735-U-5WQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 3500K, 1050mA 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: 21979 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

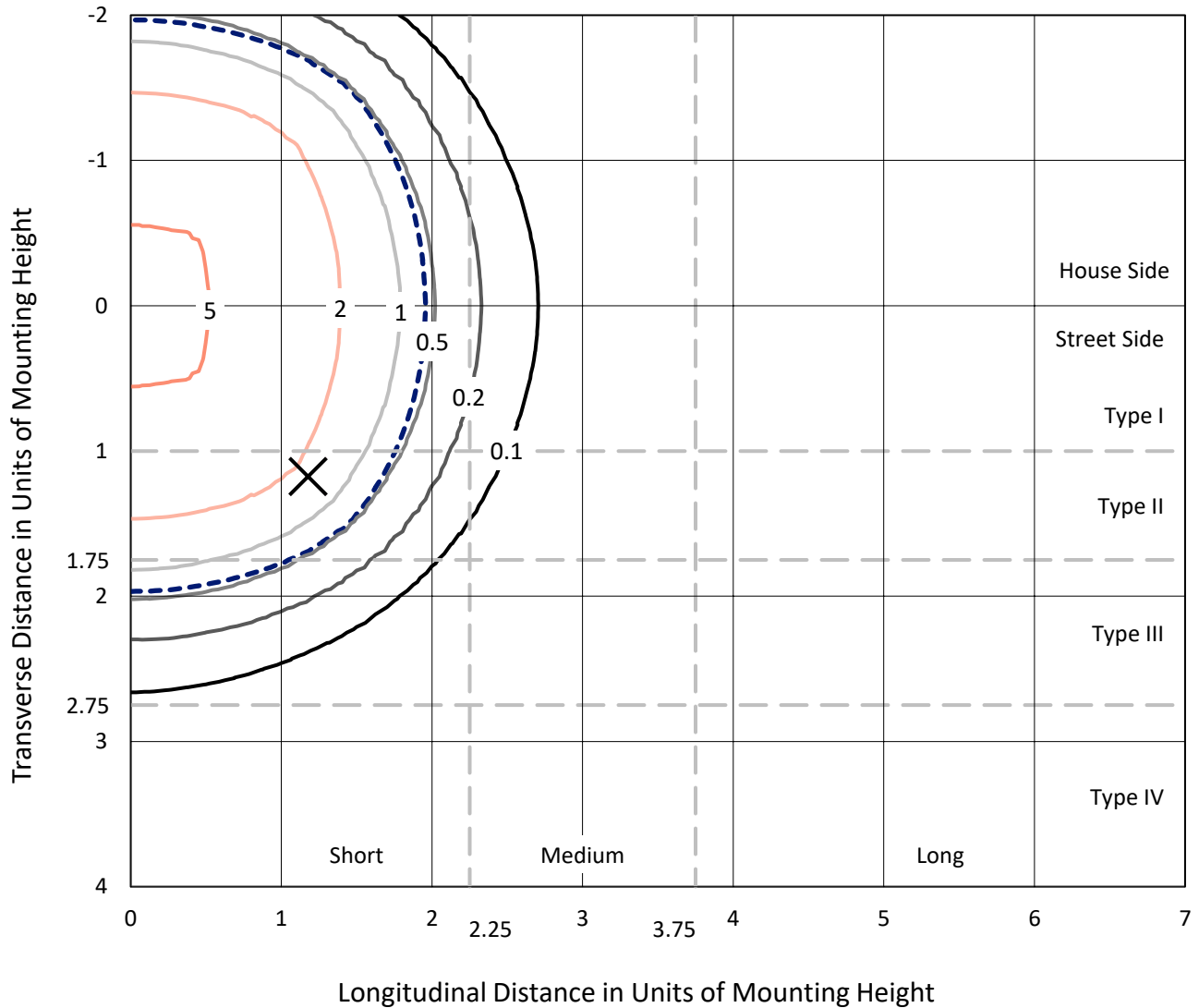
Input Watts (W): 213  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

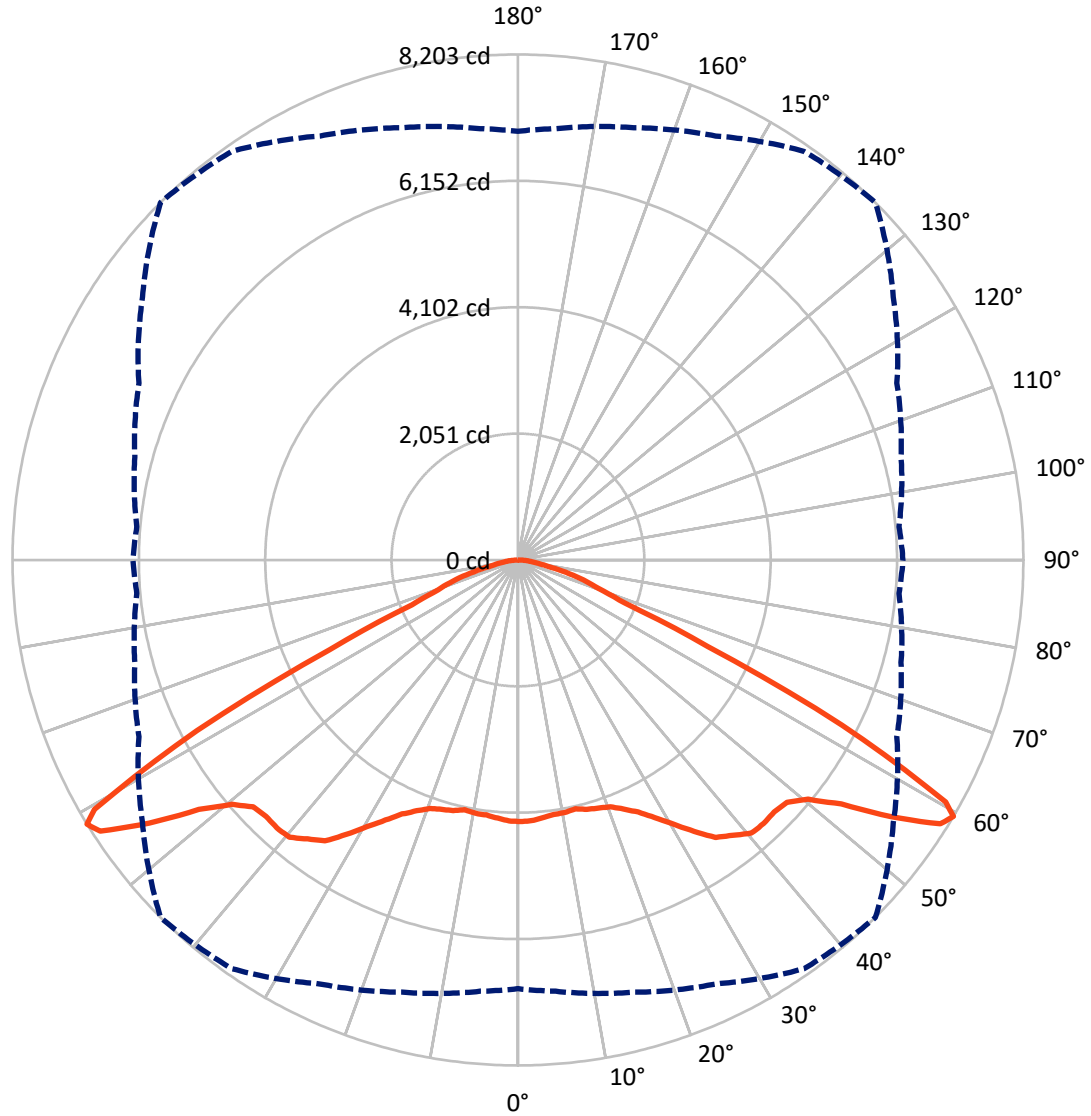
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 59-Deg Vertical

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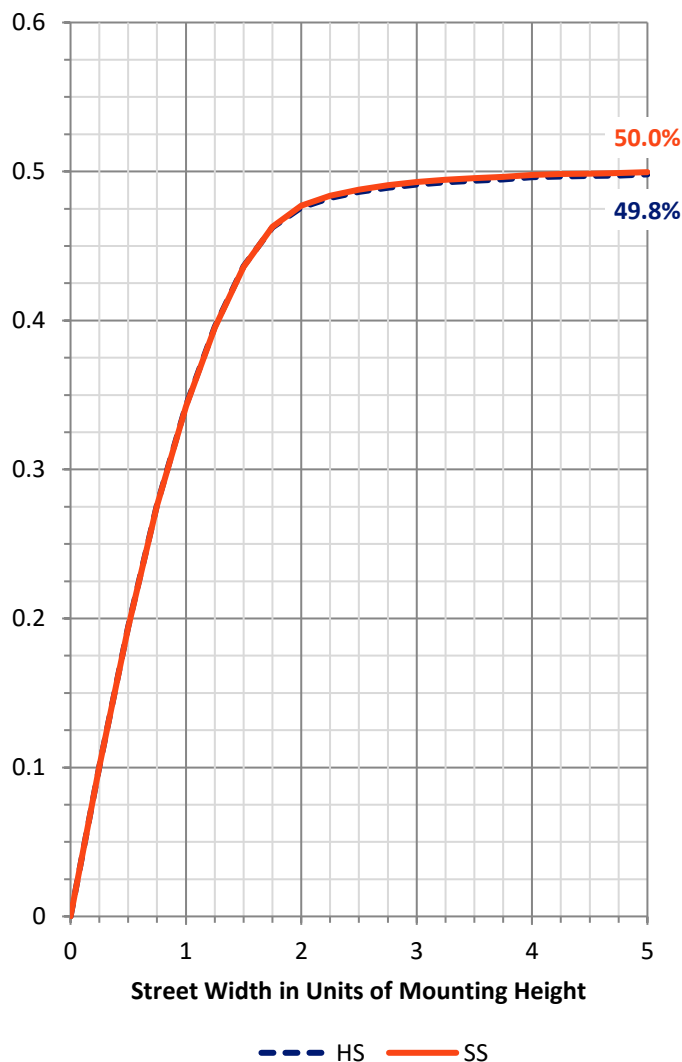
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10989.5	0.0	10989.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10989.5	0.0	10989.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21979.0	0.0	21979.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	400.2	1.8
10°-20°	1190.1	5.4
20°-30°	2078.1	9.5
30°-40°	3319.0	15.1
40°-50°	4521.1	20.6
50°-60°	6113.7	27.8
60°-70°	3352.8	15.3
70°-80°	857.7	3.9
80°-90°	146.3	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°	21979.0	100.0
0°-180°	21979.0	100.0

**Coefficient of Utilization**

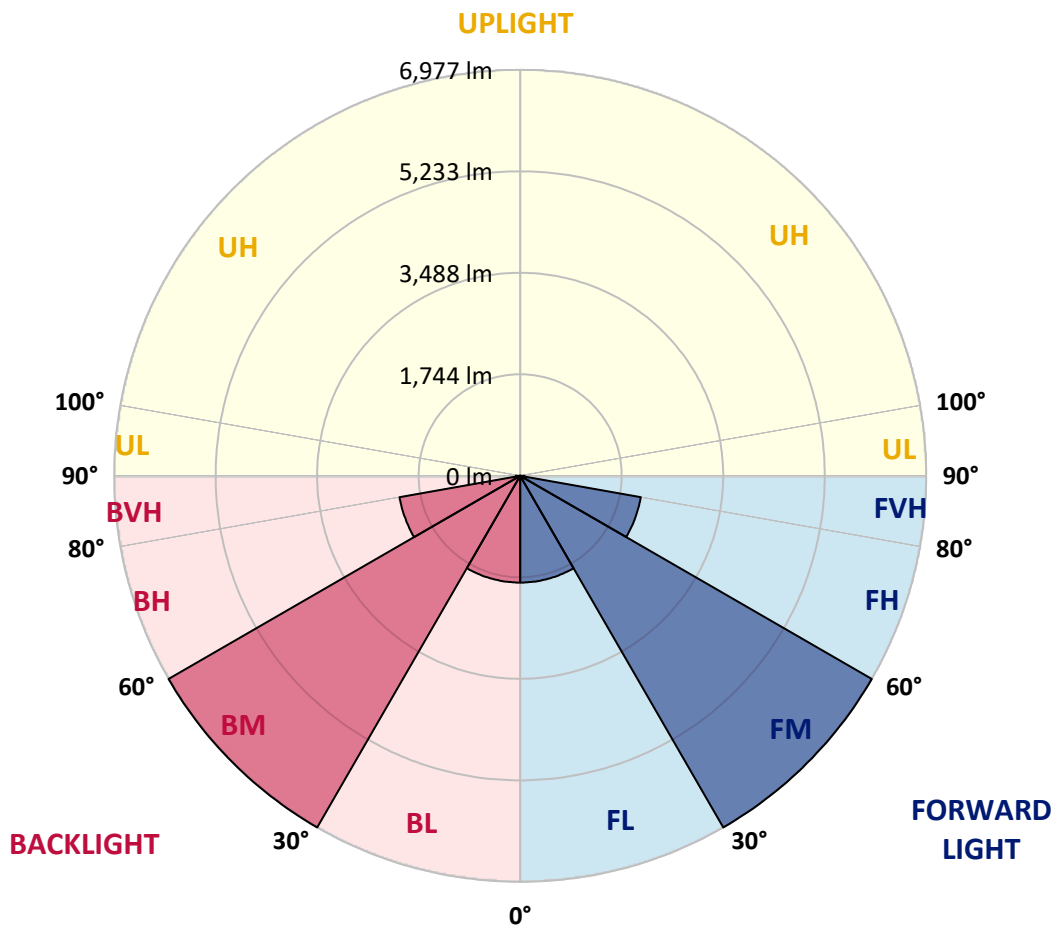


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1834.2	8.3			
FM (30°-60°)	6976.9	31.7			
FH (60°-80°)	2105.3	9.6			G2/5000
FVH (80°-90°)	73.2	0.3			G1/100
BL (0°-30°)	1834.2	8.3	B3/2500		
BM (30°-60°)	6976.9	31.7	B4/8500		
BH (60°-80°)	2105.3	9.6	B3/2500		G2/5000
BVH (80°-90°)	73.2	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-G2**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4245.3	4245.3	4245.3	4245.3	4245.3	4245.3	4245.3	4245.3	4245.3	4245.3	4245.3
2.5°	4219.9	4250.9	4228.4	4248.1	4245.3	4236.8	4222.8	4214.3	4203.0	4219.9	4191.8
5°	4203.0	4228.4	4253.7	4219.9	4219.9	4203.0	4194.6	4177.7	4177.7	4174.9	4172.0
7.5°	4231.2	4205.9	4194.6	4200.2	4205.9	4169.2	4194.6	4160.8	4132.6	4152.3	4174.9
10°	4205.9	4217.1	4174.9	4194.6	4163.6	4169.2	4152.3	4174.9	4143.9	4143.9	4143.9
12.5°	4231.2	4200.2	4214.3	4200.2	4191.8	4143.9	4166.4	4141.1	4138.2	4166.4	4141.1
15°	4281.9	4231.2	4219.9	4191.8	4200.2	4200.2	4177.7	4180.5	4149.5	4166.4	4172.0
17.5°	4265.0	4236.8	4228.4	4194.6	4222.8	4231.2	4189.0	4160.8	4180.5	4177.7	4174.9
20°	4279.1	4290.4	4281.9	4287.5	4298.8	4276.3	4236.8	4197.4	4172.0	4208.7	4205.9
22.5°	4369.2	4358.0	4352.3	4346.7	4366.4	4389.0	4335.4	4273.5	4273.5	4298.8	4310.1
25°	4442.5	4439.7	4436.9	4462.2	4529.8	4529.8	4462.2	4383.3	4363.6	4380.5	4366.4
27.5°	4549.5	4580.5	4569.3	4614.3	4712.9	4735.5	4645.3	4552.3	4498.8	4479.1	4504.5
30°	4794.6	4758.0	4766.4	4814.3	4901.7	4974.9	4836.9	4738.3	4665.0	4662.2	4673.5
32.5°	4958.0	4986.2	5011.5	5056.6	5194.6	5251.0	5084.8	4924.2	4879.1	4853.8	4862.2
35°	5284.8	5259.4	5253.8	5298.9	5436.9	5529.9	5321.4	5180.6	5121.4	5177.7	5177.7
37.5°	5594.7	5524.2	5470.7	5529.9	5656.6	5667.9	5490.4	5414.4	5383.4	5448.2	5445.4
40°	5741.1	5735.5	5611.6	5645.4	5814.4	5831.3	5665.1	5574.9	5569.3	5653.8	5738.3
42.5°	5893.3	5839.7	5715.8	5738.3	5842.6	5848.2	5690.4	5665.1	5727.1	5808.8	5814.4
45°	5918.6	5873.5	5794.7	5738.3	5814.4	5831.3	5738.3	5755.2	5760.9	5859.5	5859.5
47.5°	5969.3	5963.7	5918.6	5876.4	5890.4	5876.4	5817.2	5842.6	5927.1	5975.0	5952.4
50°	6110.2	6051.0	6096.1	6059.5	6062.3	6101.7	6048.2	6073.6	6056.7	6014.4	5986.2
52.5°	6420.1	6391.9	6431.3	6456.7	6484.8	6575.0	6513.0	6377.8	6251.0	6138.3	6135.5
55°	6873.6	6893.3	6969.4	7099.0	7208.8	7352.5	7053.9	6729.9	6527.1	6349.6	6360.9
57.5°	7301.8	7287.7	7391.9	7687.7	8008.9	8082.1	7496.2	7034.2	6704.6	6591.9	6544.0
59°	6958.1	7025.7	7262.4	7591.9	8096.2	8203.2	7437.0	6786.3	6437.0	6208.8	6248.2
60°	6417.2	6442.6	6653.9	7113.0	7794.8	7977.9	7039.8	6403.2	5938.3	5805.9	5865.1
62.5°	4535.4	4515.7	4667.8	5042.5	5653.8	5901.7	5234.1	4786.2	4493.2	4346.7	4380.5
65°	2411.4	2501.5	2563.5	2797.3	3121.3	3383.3	3107.2	2912.8	2749.4	2628.3	2625.5
67.5°	1628.3	1617.0	1631.1	1684.6	1794.5	1867.7	1862.1	1763.5	1749.4	1726.9	1752.2
70°	1371.9	1366.3	1340.9	1340.9	1363.5	1380.4	1400.1	1411.3	1433.9	1462.0	1459.2
72.5°	1112.7	1098.6	1081.7	1073.3	1101.5	1109.9	1135.3	1146.5	1166.3	1163.4	1188.8
75°	735.2	735.2	755.0	777.5	786.0	802.9	805.7	839.5	839.5	845.1	822.6
77.5°	411.3	400.0	414.1	436.6	456.4	487.3	518.3	543.7	557.8	552.1	552.1
80°	239.4	239.4	253.5	278.9	304.2	332.4	354.9	374.7	388.8	383.1	371.9
82.5°	149.3	149.3	163.4	188.7	208.5	225.4	256.4	281.7	298.6	293.0	278.9
85°	76.1	76.1	93.0	109.9	135.2	146.5	143.7	132.4	129.6	115.5	115.5
87.5°	19.7	19.7	28.2	31.0	25.4	28.2	28.2	28.2	28.2	28.2	31.0
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)