

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: P531656

Luminaire Tested: **GALN-SA7A-727-U-5NQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531656  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7A-727-U-5NQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23994 lumens  
Efficiency: N/A  
Efficacy: 111.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G1

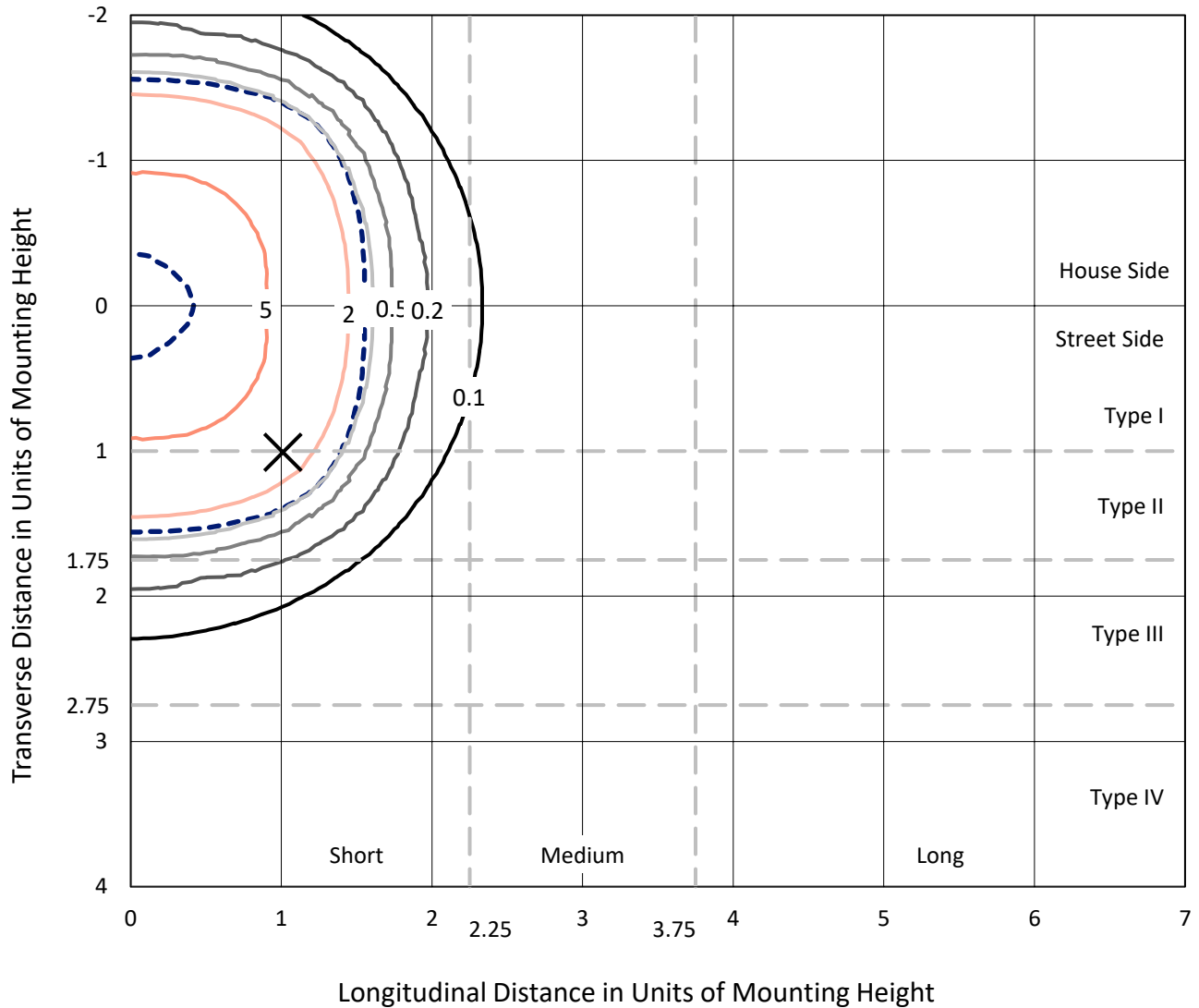
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

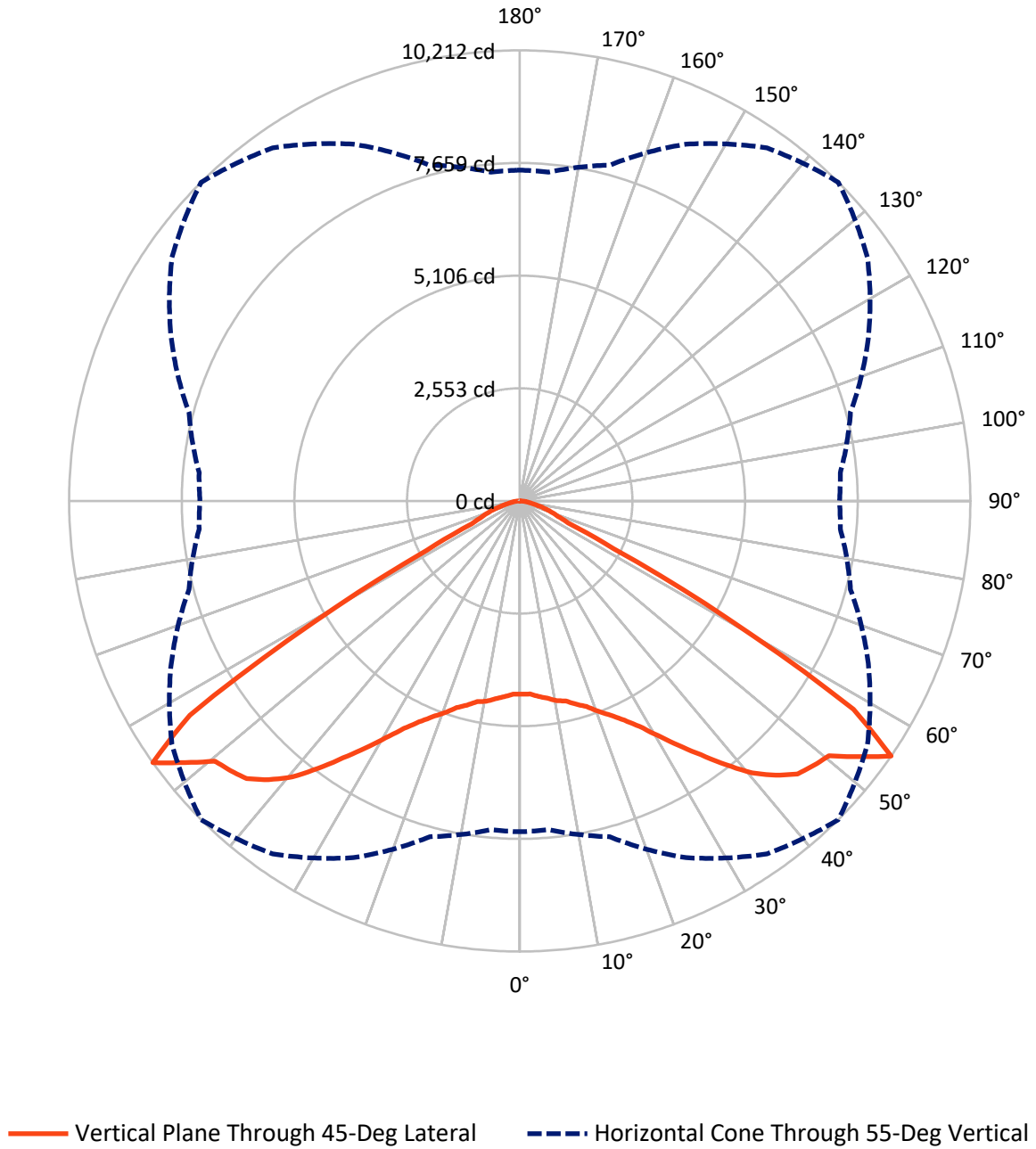
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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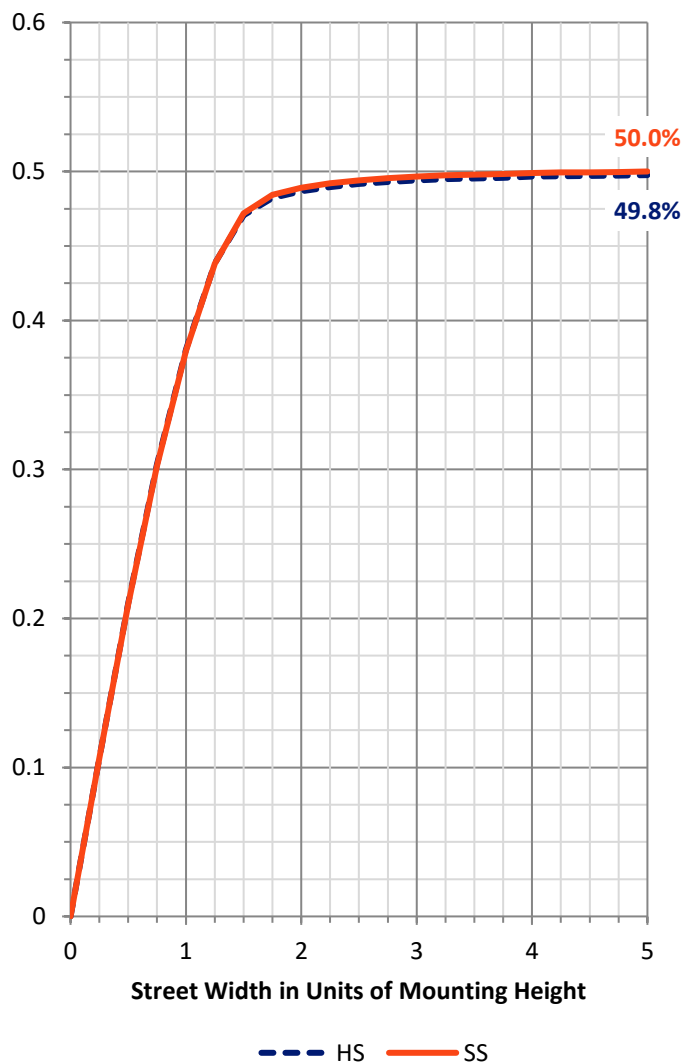
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11997.0	0.0	11997.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11997.0	0.0	11997.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23994.0	0.0	23994.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	428.0	1.8
10°-20°	1356.0	5.7
20°-30°	2528.6	10.5
30°-40°	4233.7	17.6
40°-50°	6588.0	27.5
50°-60°	6840.4	28.5
60°-70°	1450.6	6.0
70°-80°	477.7	2.0
80°-90°	91.0	0.4
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°	23994.0	100.0
0°-180°	23994.0	100.0

**Coefficient of Utilization**

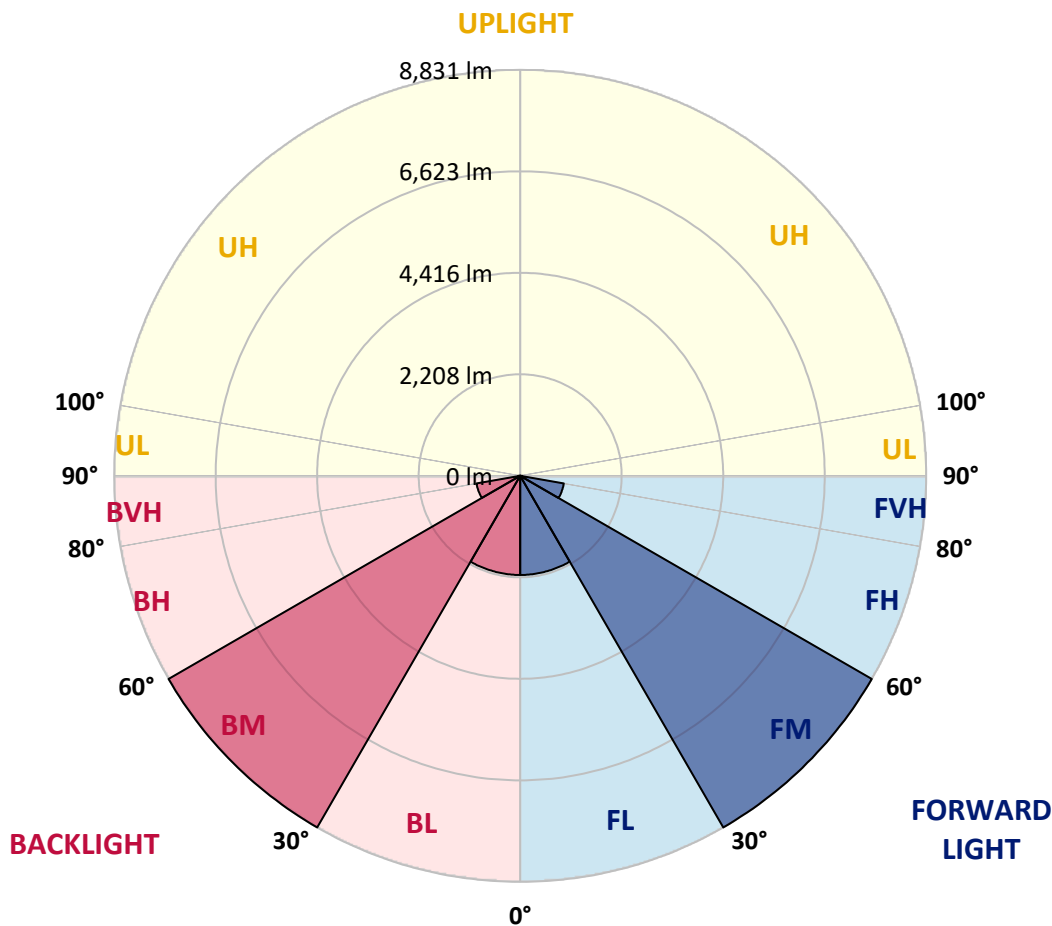


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2156.3	9.0			
FM (30°-60°)	8831.0	36.8			
FH (60°-80°)	964.2	4.0			G1/1800
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	2156.3	9.0	B3/2500		
BM (30°-60°)	8831.0	36.8	B5		
BH (60°-80°)	964.2	4.0	B2/1000		G1/1800
BVH (80°-90°)	45.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4380.9	4380.9	4380.9	4380.9	4380.9	4380.9	4380.9	4380.9	4380.9	4380.9	4380.9
2.5°	4433.1	4412.8	4378.0	4404.1	4424.4	4380.9	4398.3	4407.0	4401.2	4378.0	4386.7
5°	4496.9	4485.3	4456.3	4476.6	4450.5	4450.5	4433.1	4409.9	4444.7	4438.9	4453.4
7.5°	4496.9	4482.4	4540.4	4502.7	4514.3	4514.3	4485.3	4462.1	4479.5	4453.4	4438.9
10°	4586.8	4607.1	4581.0	4589.7	4583.9	4604.2	4560.7	4546.2	4531.7	4523.0	4505.6
12.5°	4694.1	4679.6	4688.3	4682.5	4702.8	4650.6	4624.5	4592.6	4618.7	4581.0	4607.1
15°	4781.1	4772.4	4781.1	4804.3	4784.0	4781.1	4734.7	4702.8	4662.2	4670.9	4630.3
17.5°	4899.9	4891.2	4894.1	4914.4	4911.5	4897.0	4862.2	4801.4	4786.9	4763.7	4737.6
20°	5076.8	5062.3	5056.5	5065.2	5079.7	5091.3	5021.7	4998.5	4949.2	4911.5	4868.0
22.5°	5227.6	5221.8	5245.0	5207.3	5239.2	5274.0	5207.3	5195.7	5073.9	5053.6	5007.2
25°	5436.3	5427.6	5413.1	5468.2	5505.9	5503.0	5439.2	5375.4	5282.7	5259.5	5259.5
27.5°	5656.7	5607.4	5682.8	5697.3	5763.9	5784.2	5729.2	5636.4	5549.4	5500.1	5511.7
30°	5932.1	5885.7	5903.1	6007.5	6094.5	6169.9	6030.7	5894.4	5772.6	5685.7	5671.2
32.5°	6207.5	6161.2	6213.3	6314.8	6488.8	6601.9	6465.6	6227.8	6085.8	5958.2	5984.3
35°	6430.8	6465.6	6549.7	6703.3	6883.1	7065.8	6848.3	6665.6	6462.7	6320.6	6340.9
37.5°	6790.3	6897.6	6964.3	7141.1	7396.3	7584.7	7358.6	7120.9	6903.4	6717.8	6654.1
40°	7260.0	7332.5	7407.9	7616.6	7918.2	8106.6	7892.1	7581.8	7367.3	7175.9	7167.2
42.5°	7776.1	7845.7	7924.0	8179.1	8358.9	8500.9	8303.8	8138.5	7900.8	7750.0	7741.3
45°	8376.3	8327.0	8414.0	8582.1	8732.9	8825.7	8698.1	8616.9	8445.9	8306.7	8292.2
47.5°	8776.4	8732.9	8889.5	9040.2	9063.4	8961.9	8988.0	9063.4	8883.7	8654.6	8727.1
50°	9008.3	9008.3	9112.7	9251.9	9208.4	9077.9	9283.8	9289.6	9109.8	8906.9	8906.9
52.5°	8605.3	8695.2	8990.9	9446.1	9591.1	9628.8	9582.4	9385.3	8915.6	8500.9	8480.7
55°	7497.8	7477.5	7877.6	8921.4	9765.1	10211.6	9620.1	8712.6	7758.7	7291.9	7245.5
57.5°	4876.7	4899.9	5497.2	6561.3	8083.4	8915.6	7918.2	6642.5	5497.2	4853.5	4914.4
60°	2194.8	2273.1	2635.5	3430.0	4737.6	5416.0	4749.2	3603.9	2766.0	2400.7	2432.6
62.5°	1261.2	1275.7	1290.2	1530.9	2018.0	2386.2	2096.2	1617.8	1426.5	1362.7	1362.7
65°	1064.1	1055.4	1058.3	1078.6	1130.8	1206.1	1174.2	1130.8	1136.6	1130.8	1122.1
67.5°	904.6	916.2	907.5	922.0	924.9	936.5	956.8	974.2	977.1	982.9	977.1
70°	742.2	745.1	750.9	762.5	765.4	774.1	803.1	817.6	826.3	826.3	837.9
72.5°	568.3	565.4	571.2	582.8	597.3	600.2	626.3	646.6	658.2	643.7	646.6
75°	374.0	376.9	385.6	394.3	414.6	434.9	443.6	463.9	466.8	472.6	458.1
77.5°	223.3	229.1	237.7	255.1	272.5	289.9	310.2	324.7	330.5	324.7	307.3
80°	145.0	145.0	156.6	171.1	191.4	205.9	217.5	229.1	237.7	229.1	223.3
82.5°	89.9	89.9	104.4	121.8	136.3	145.0	162.4	176.9	185.6	179.8	171.1
85°	46.4	49.3	60.9	75.4	87.0	92.8	89.9	81.2	72.5	69.6	63.8
87.5°	14.5	14.5	17.4	17.4	14.5	14.5	17.4	14.5	17.4	17.4	17.4
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)