

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: P459385

Luminaire Tested: **GALN-SA8C-735-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459385  
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-SA8C-735-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 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: 55349 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G5

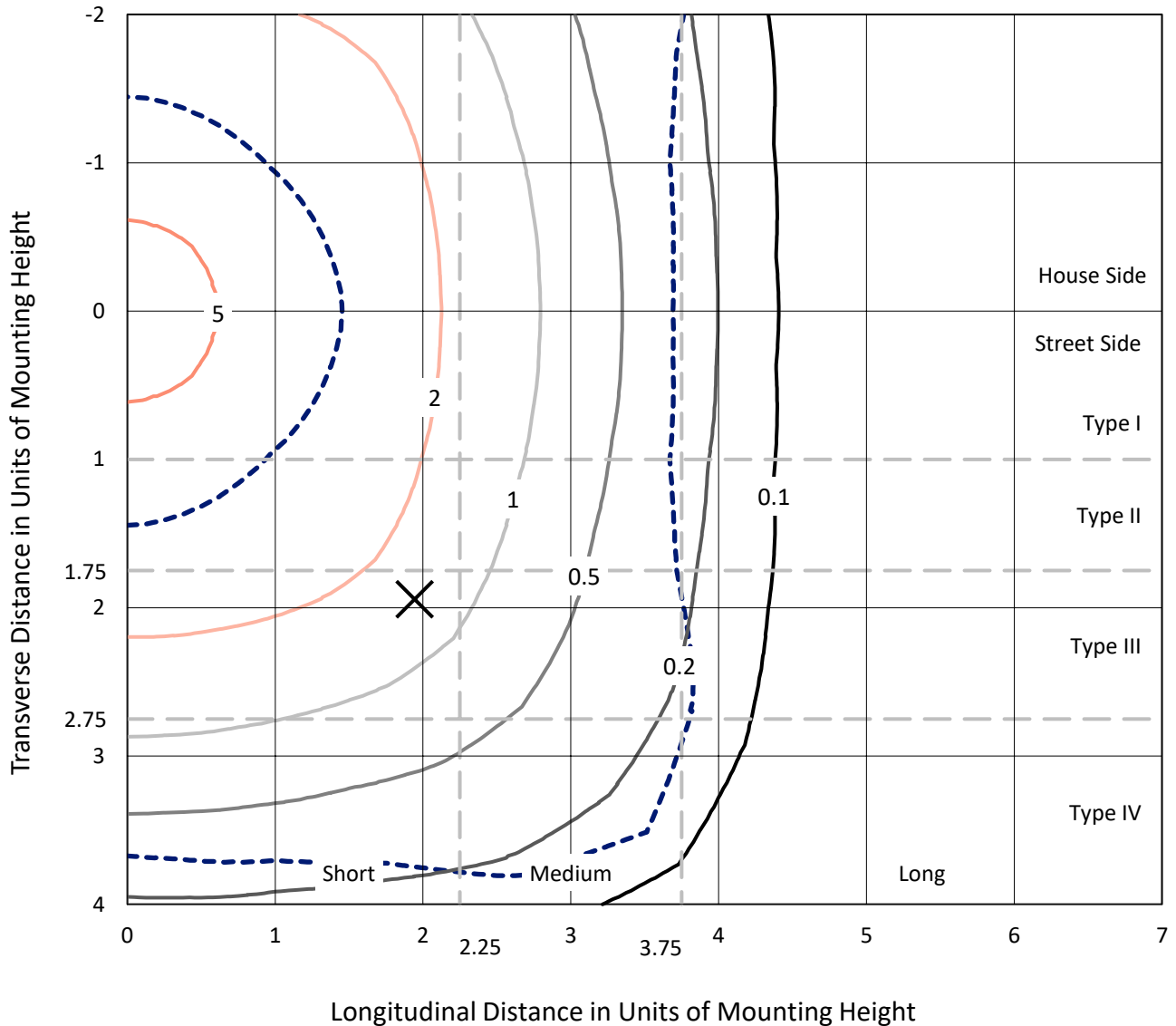
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

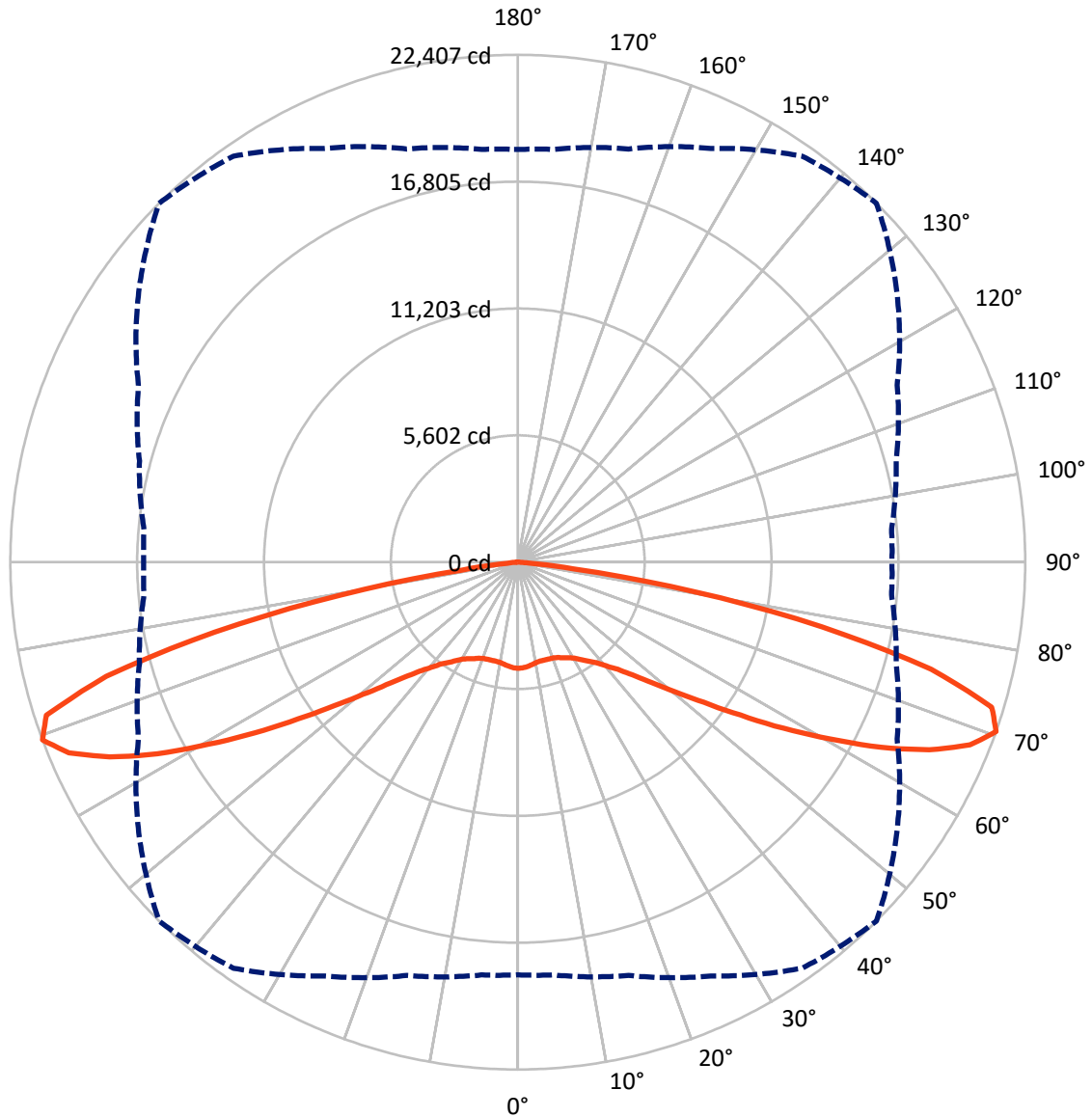
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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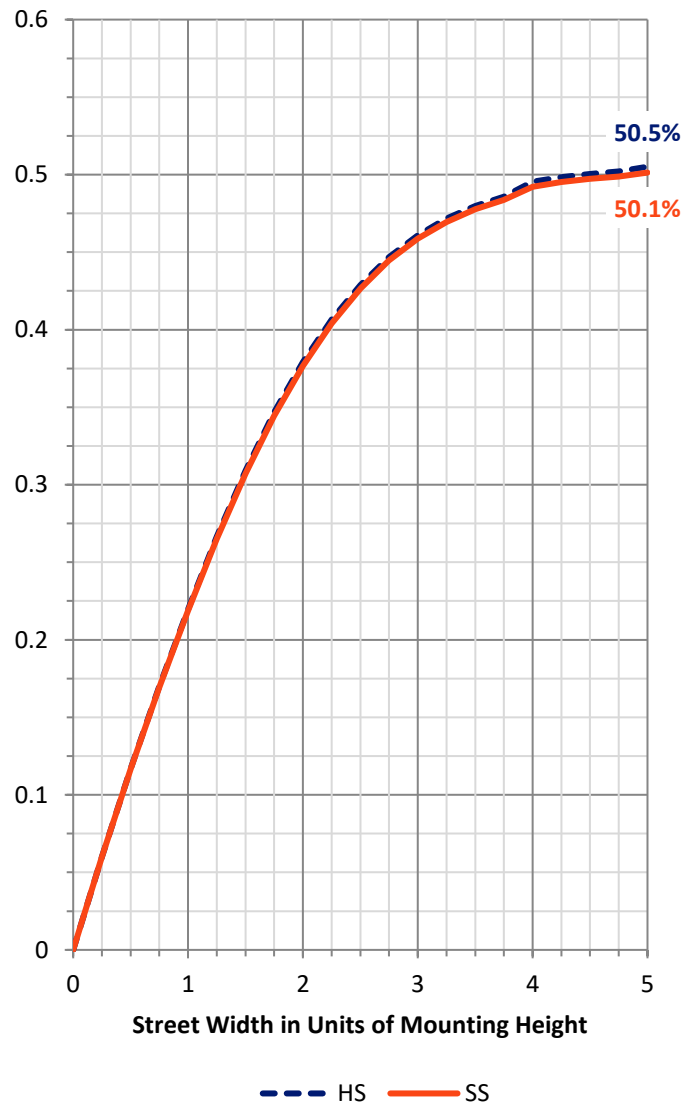
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	27674.5	0.0	27674.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	27674.5	0.0	27674.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	55349.0	0.0	55349.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	438.2	0.8
10°-20°	1282.9	2.3
20°-30°	2185.8	3.9
30°-40°	3388.0	6.1
40°-50°	5702.5	10.3
50°-60°	10375.4	18.7
60°-70°	17565.3	31.7
70°-80°	13596.2	24.6
80°-90°	814.7	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°	55349.0	100.0
0°-180°	55349.0	100.0



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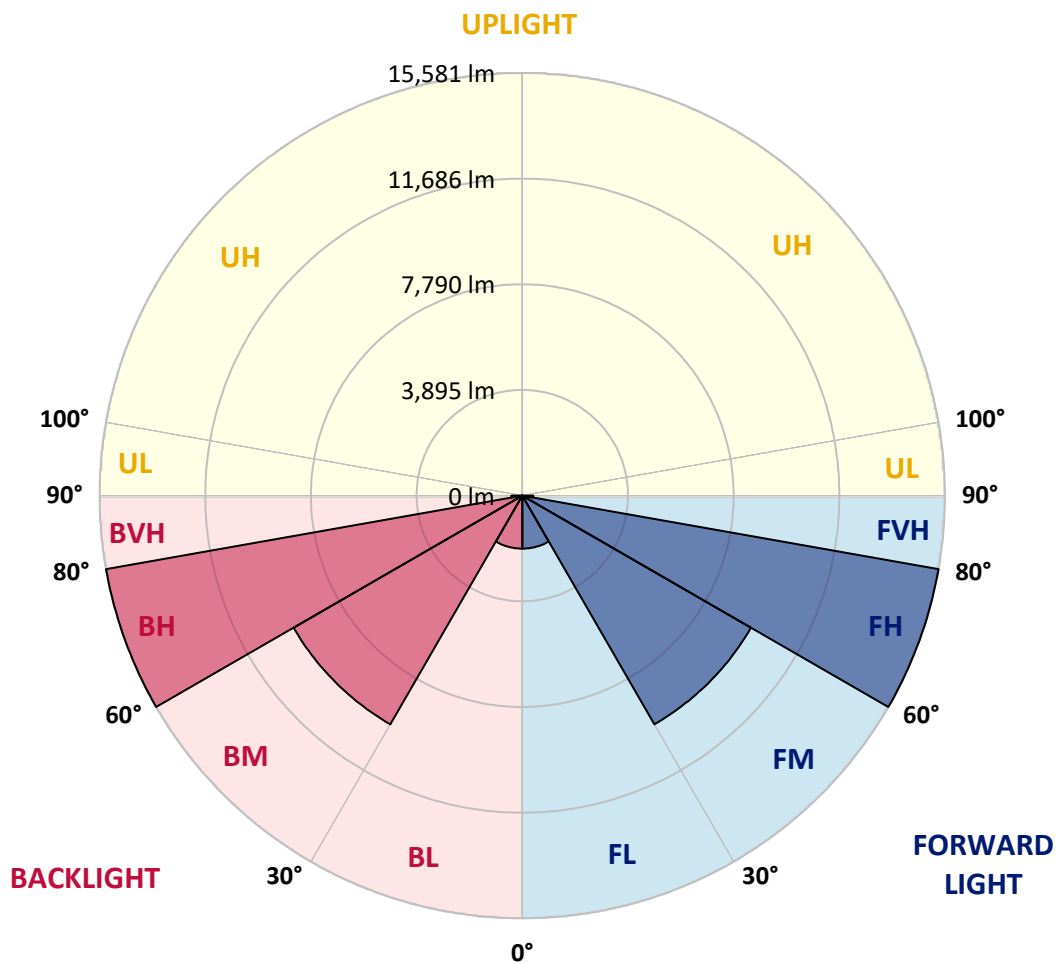
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1953.5	3.5			
FM	(30°-60°)	9732.9	17.6			
FH	(60°-80°)	15580.7	28.1			G5
FVH	(80°-90°)	407.4	0.7			G3/500
BL	(0°-30°)	1953.5	3.5	B3/2500		
BM	(30°-60°)	9732.9	17.6	B5		
BH	(60°-80°)	15580.7	28.1	B5		G5
BVH	(80°-90°)	407.4	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-G5**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4686.0	4686.0	4686.0	4686.0	4686.0	4686.0	4686.0	4686.0	4686.0	4686.0	4686.0
2.5°	4674.3	4677.2	4677.2	4671.4	4668.4	4668.4	4665.5	4665.5	4674.3	4677.2	4680.1
5°	4633.4	4633.4	4633.4	4630.4	4624.6	4624.6	4618.7	4618.7	4621.7	4630.4	4624.6
7.5°	4577.8	4583.7	4583.7	4572.0	4563.2	4563.2	4560.3	4563.2	4566.1	4574.9	4572.0
10°	4560.3	4563.2	4548.6	4528.1	4513.5	4504.7	4507.7	4513.5	4528.1	4534.0	4536.9
12.5°	4572.0	4572.0	4545.7	4516.4	4490.1	4478.4	4475.5	4496.0	4522.3	4539.8	4545.7
15°	4586.6	4580.7	4548.6	4510.6	4484.3	4481.3	4478.4	4493.0	4531.0	4566.1	4569.0
17.5°	4595.3	4592.4	4551.5	4504.7	4490.1	4490.1	4487.2	4498.9	4539.8	4583.7	4586.6
20°	4624.6	4615.8	4569.0	4519.3	4507.7	4513.5	4504.7	4519.3	4563.2	4615.8	4627.5
22.5°	4683.0	4674.3	4627.5	4577.8	4572.0	4572.0	4569.0	4583.7	4630.4	4686.0	4694.7
25°	4753.2	4744.4	4700.6	4665.5	4671.4	4683.0	4677.2	4680.1	4718.1	4764.9	4779.5
27.5°	4846.7	4832.1	4794.1	4764.9	4782.4	4782.4	4782.4	4779.5	4802.9	4846.7	4861.4
30°	4960.8	4954.9	4914.0	4911.1	4925.7	4911.1	4911.1	4914.0	4916.9	4957.8	4972.4
32.5°	5109.8	5098.1	5077.7	5071.8	5112.8	5124.5	5083.5	5045.5	5066.0	5106.9	5115.7
35°	5355.4	5337.9	5308.6	5276.5	5308.6	5364.2	5276.5	5247.2	5299.9	5355.4	5361.2
37.5°	5688.6	5679.9	5633.1	5574.6	5571.7	5630.2	5539.6	5536.6	5636.0	5703.3	5712.0
40°	6106.7	6115.4	6057.0	6001.4	5972.2	6019.0	5948.8	5975.1	6071.6	6147.6	6141.7
42.5°	6694.2	6662.1	6571.5	6518.8	6486.7	6469.2	6451.6	6492.5	6600.7	6682.6	6746.9
45°	7381.2	7369.5	7255.5	7191.2	7121.0	7094.7	7088.9	7162.0	7293.5	7392.9	7401.7
47.5°	8158.8	8132.5	8059.4	7992.2	7965.9	7933.7	7904.5	7960.0	8091.6	8161.7	8182.2
50°	8959.8	8965.6	8965.6	8953.9	8980.2	8986.1	8907.1	8927.6	9000.7	8994.8	8989.0
52.5°	9874.7	9906.9	10058.9	10073.5	10199.2	10284.0	10140.8	10056.0	10029.7	9871.8	9883.5
55°	10950.5	10979.7	11207.7	11435.8	11774.9	11918.1	11617.0	11353.9	11166.8	10927.1	10938.8
57.5°	12292.3	12306.9	12523.2	12961.7	13499.6	13835.7	13306.6	12786.3	12406.3	12178.3	12087.6
60°	13736.4	13751.0	14066.7	14601.6	15437.7	15846.9	15192.1	14341.5	13862.1	13514.2	13537.6
62.5°	15469.8	15528.3	15811.9	16548.5	17562.9	18021.8	17153.6	16016.5	15367.5	14934.9	14952.4
65°	17326.1	17425.5	17735.4	18545.1	19480.5	19974.6	18910.5	17598.0	16791.2	16262.0	16317.6
67.5°	18530.5	18618.2	19065.4	19960.0	21126.3	21535.6	20161.7	18632.8	17624.3	16992.9	16875.9
70°	18223.5	18296.6	18893.0	20161.7	21889.3	22406.7	20459.8	18480.8	17294.0	16566.1	16519.3
72.5°	16086.6	15934.6	16805.8	18627.0	21018.2	21886.4	19521.5	16878.8	15385.1	14636.7	14549.0
75°	10661.1	10991.4	12277.7	14423.3	17782.1	18857.9	16662.5	13552.2	11672.5	11049.9	10953.4
77.5°	3563.4	3817.8	4960.8	8176.3	12122.7	13739.3	12140.3	8863.3	6270.4	5051.4	5074.8
80°	944.2	932.5	1207.3	2248.0	5238.5	7957.1	6097.9	3002.2	1642.9	1189.8	1128.4
82.5°	339.1	380.0	488.2	622.7	1388.5	2473.1	1745.2	841.9	616.8	456.0	441.4
85°	149.1	146.2	210.5	248.5	347.9	461.9	409.3	356.6	312.8	207.6	192.9
87.5°	32.2	32.2	49.7	38.0	61.4	61.4	76.0	90.6	93.5	61.4	49.7
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)