

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: P651056

Luminaire Tested: **GALN-SA8C-840-U-5WQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P651056  
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-840-U-5WQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 4000K, 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: 49969.7 lumens  
Efficiency: N/A  
Efficacy: 116.5 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

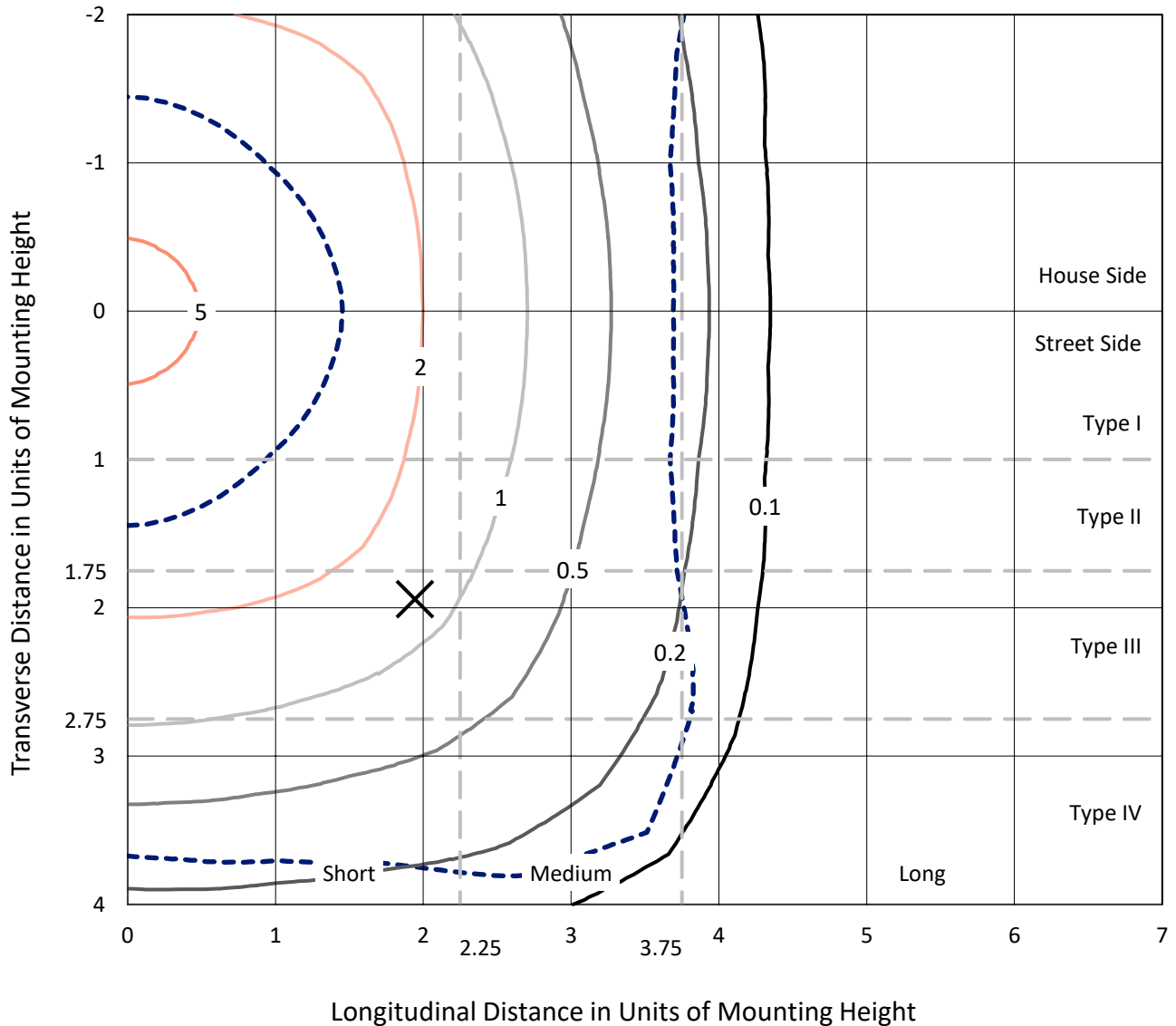
Input Watts (W): 429  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

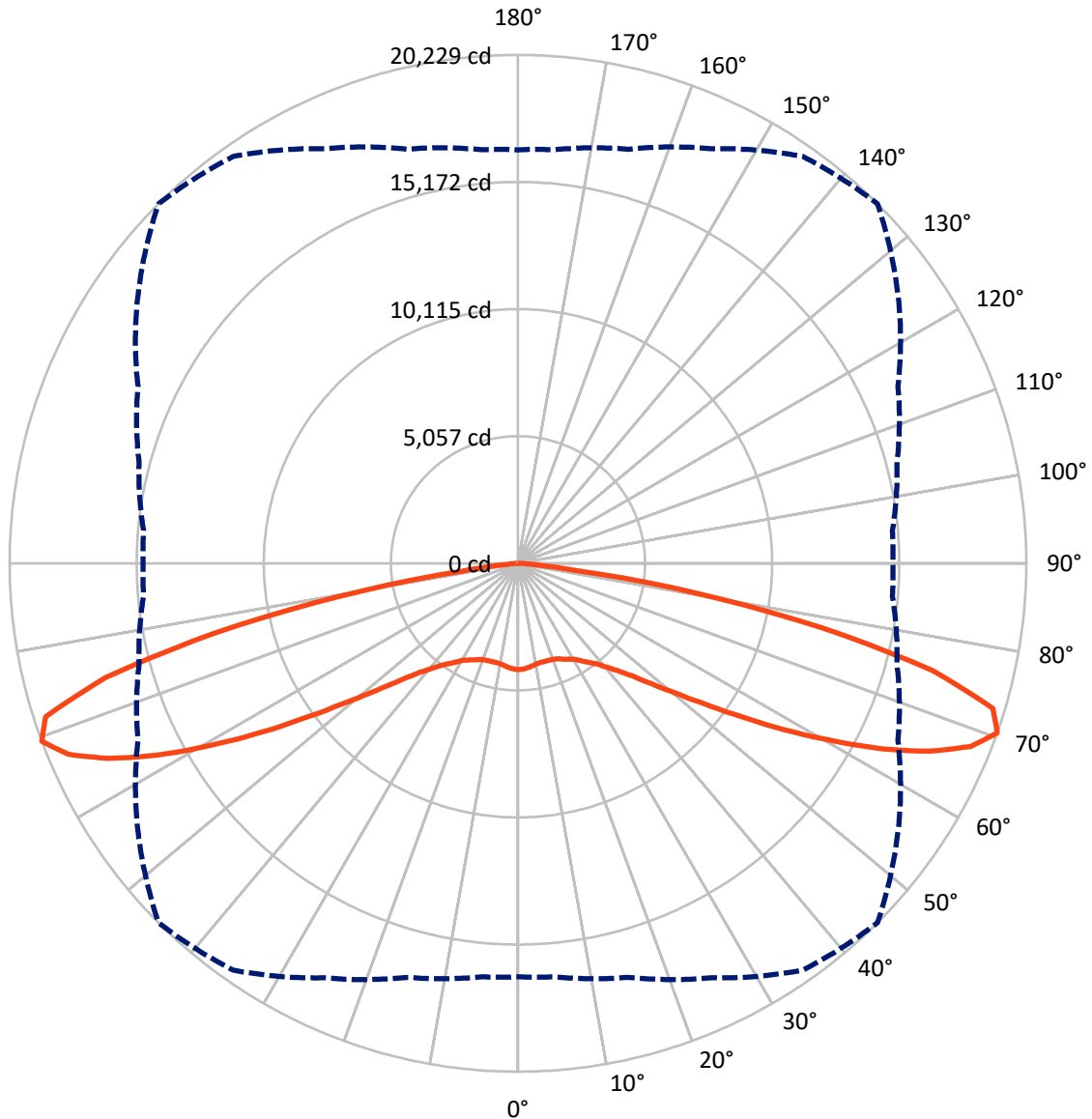
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 70-Deg Vertical

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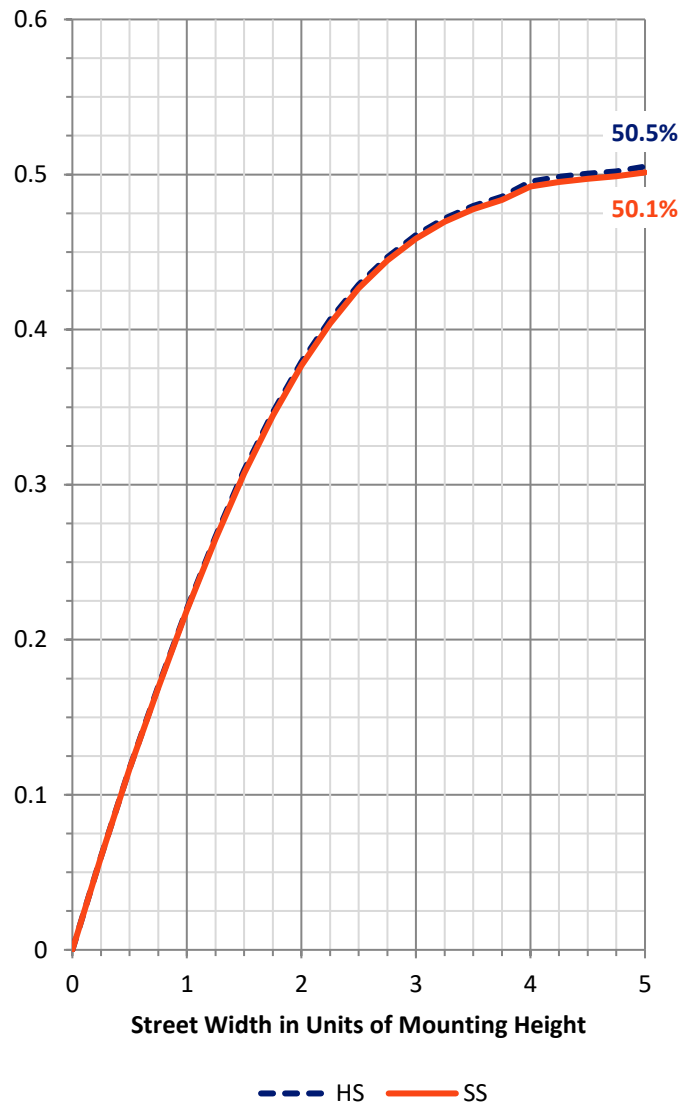
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	24984.8	0.0	24984.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	24984.8	0.0	24984.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	49969.7	0.0	49969.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	395.6	0.8
10°-20°	1158.2	2.3
20°-30°	1973.4	3.9
30°-40°	3058.7	6.1
40°-50°	5148.2	10.3
50°-60°	9367.0	18.7
60°-70°	15858.1	31.7
70°-80°	12274.8	24.6
80°-90°	735.5	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°	49969.7	100.0
0°-180°	49969.7	100.0

**Coefficient of Utilization**



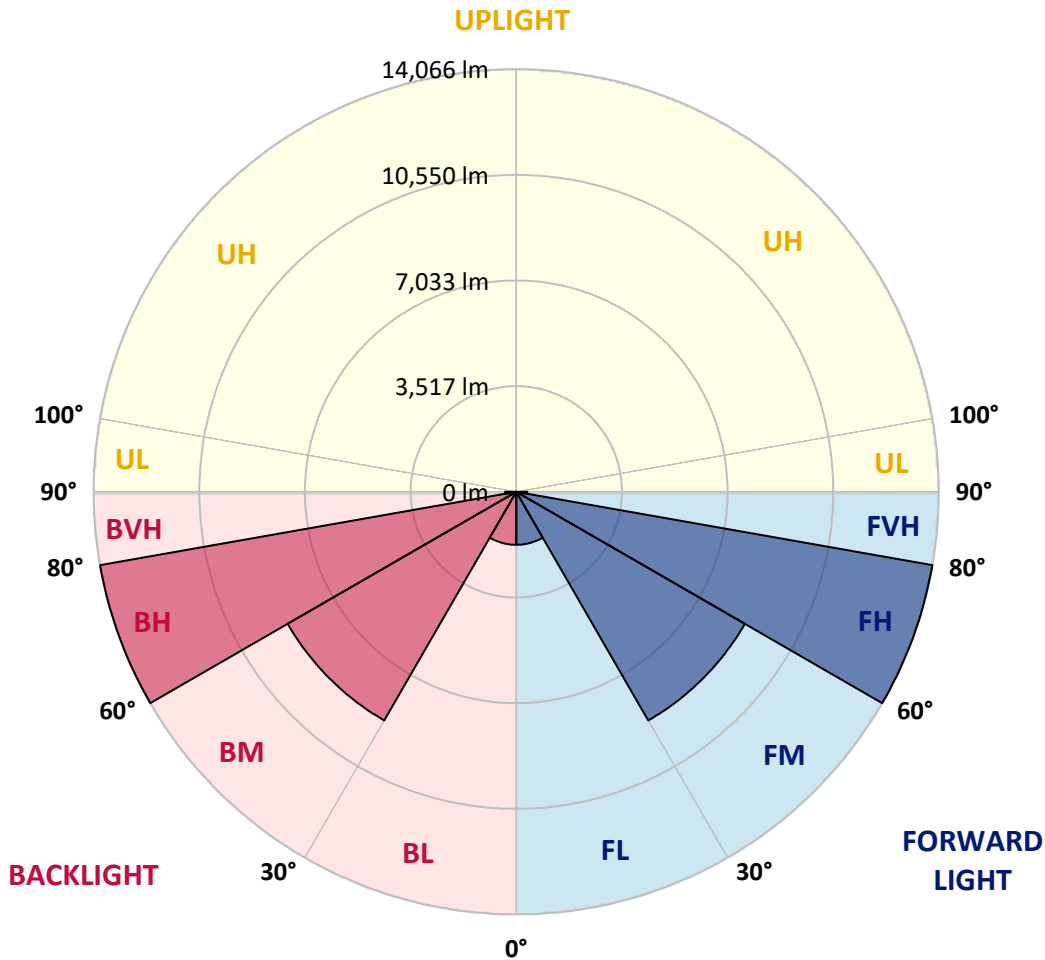
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1763.6	3.5			
FM (30°-60°)	8787.0	17.6			
FH (60°-80°)	14066.5	28.1			G5
FVH (80°-90°)	367.8	0.7			G3/500
BL (0°-30°)	1763.6	3.5	B3/2500		
BM (30°-60°)	8787.0	17.6	B5		
BH (60°-80°)	14066.5	28.1	B5		G5
BVH (80°-90°)	367.8	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°	4230.6	4230.6	4230.6	4230.6	4230.6	4230.6	4230.6	4230.6	4230.6	4230.6	4230.6
2.5°	4220.0	4222.7	4222.7	4217.4	4214.7	4214.7	4212.1	4212.1	4220.0	4222.7	4225.3
5°	4183.0	4183.0	4183.0	4180.4	4175.1	4175.1	4169.8	4169.8	4172.5	4180.4	4175.1
7.5°	4132.9	4138.1	4138.1	4127.6	4119.7	4119.7	4117.0	4119.7	4122.3	4130.2	4127.6
10°	4117.0	4119.7	4106.5	4088.0	4074.8	4066.9	4069.6	4074.8	4088.0	4093.3	4095.9
12.5°	4127.6	4127.6	4103.8	4077.5	4053.7	4043.2	4040.5	4059.0	4082.7	4098.6	4103.8
15°	4140.8	4135.5	4106.5	4072.2	4048.4	4045.8	4043.2	4056.4	4090.7	4122.3	4125.0
17.5°	4148.7	4146.1	4109.1	4066.9	4053.7	4053.7	4051.1	4061.6	4098.6	4138.1	4140.8
20°	4175.1	4167.2	4125.0	4080.1	4069.6	4074.8	4066.9	4080.1	4119.7	4167.2	4177.8
22.5°	4227.9	4220.0	4177.8	4132.9	4127.6	4127.6	4125.0	4138.1	4180.4	4230.6	4238.5
25°	4291.3	4283.3	4243.8	4212.1	4217.4	4227.9	4222.7	4225.3	4259.6	4301.8	4315.0
27.5°	4375.7	4362.5	4328.2	4301.8	4317.6	4317.6	4317.6	4315.0	4336.1	4375.7	4388.9
30°	4478.7	4473.4	4436.4	4433.8	4447.0	4433.8	4433.8	4436.4	4439.1	4476.0	4489.2
32.5°	4613.2	4602.6	4584.2	4578.9	4615.8	4626.4	4589.5	4555.2	4573.6	4610.6	4618.5
35°	4834.9	4819.1	4792.7	4763.7	4792.7	4842.8	4763.7	4737.3	4784.8	4834.9	4840.2
37.5°	5135.7	5127.8	5085.6	5032.9	5030.2	5083.0	5001.2	4998.6	5088.3	5148.9	5156.9
40°	5513.2	5521.1	5468.3	5418.1	5391.7	5434.0	5370.6	5394.4	5481.5	5550.1	5544.9
42.5°	6043.7	6014.6	5932.8	5885.3	5856.2	5840.4	5824.6	5861.5	5959.2	6033.1	6091.1
45°	6663.8	6653.3	6550.4	6492.3	6428.9	6405.2	6399.9	6465.9	6584.7	6674.4	6682.3
47.5°	7365.8	7342.1	7276.1	7215.4	7191.6	7162.6	7136.2	7186.4	7305.2	7368.5	7386.9
50°	8089.0	8094.3	8094.3	8083.7	8107.4	8112.7	8041.5	8060.0	8125.9	8120.6	8115.4
52.5°	8915.0	8944.0	9081.3	9094.5	9207.9	9284.5	9155.2	9078.7	9054.9	8912.4	8922.9
55°	9886.2	9912.6	10118.5	10324.4	10630.5	10759.8	10487.9	10250.4	10081.5	9865.1	9875.7
57.5°	11097.6	11110.8	11306.1	11701.9	12187.6	12491.0	12013.3	11543.7	11200.5	10994.6	10912.8
60°	12401.3	12414.5	12699.5	13182.5	13937.3	14306.8	13715.6	12947.6	12514.8	12200.7	12221.8
62.5°	13966.3	14019.1	14275.1	14940.2	15856.0	16270.3	15486.5	14459.9	13874.0	13483.4	13499.2
65°	15642.2	15731.9	16011.7	16742.7	17587.2	18033.2	17072.6	15887.7	15159.3	14681.6	14731.7
67.5°	16729.5	16808.7	17212.5	18020.1	19073.1	19442.6	18202.2	16821.9	15911.4	15341.4	15235.8
70°	16452.4	16518.4	17056.7	18202.2	19761.9	20229.0	18471.4	16684.7	15613.2	14956.0	14913.8
72.5°	14523.2	14386.0	15172.4	16816.6	18975.4	19759.3	17624.2	15238.4	13889.8	13214.2	13135.0
75°	9625.0	9923.2	11084.4	13021.5	16053.9	17025.1	15043.1	12235.0	10538.1	9975.9	9888.9
77.5°	3217.1	3446.8	4478.7	7381.7	10944.5	12404.0	10960.3	8001.9	5660.9	4560.4	4581.5
80°	852.4	841.9	1089.9	2029.5	4729.4	7183.7	5505.3	2710.4	1483.2	1074.1	1018.7
82.5°	306.1	343.1	440.8	562.1	1253.6	2232.7	1575.5	760.1	556.8	411.7	398.5
85°	134.6	132.0	190.0	224.3	314.0	417.0	369.5	321.9	282.4	187.4	174.2
87.5°	29.0	29.0	44.8	34.3	55.4	55.4	68.6	81.8	84.4	55.4	44.8
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)