

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: P650917

Luminaire Tested: **GALN-SA5C-840-U-T1**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650917  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5C-840-U-T1  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 29557.8 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

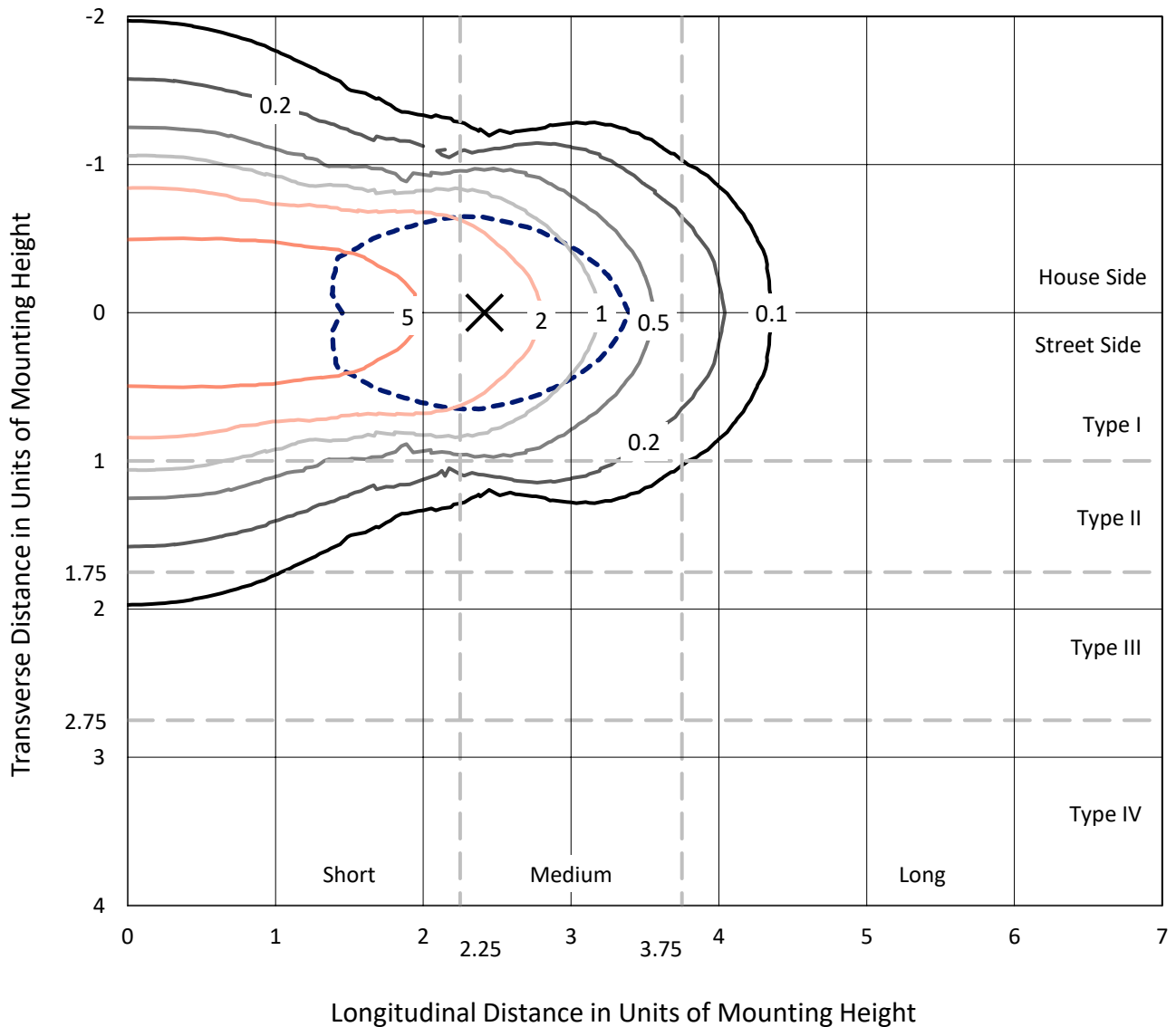
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

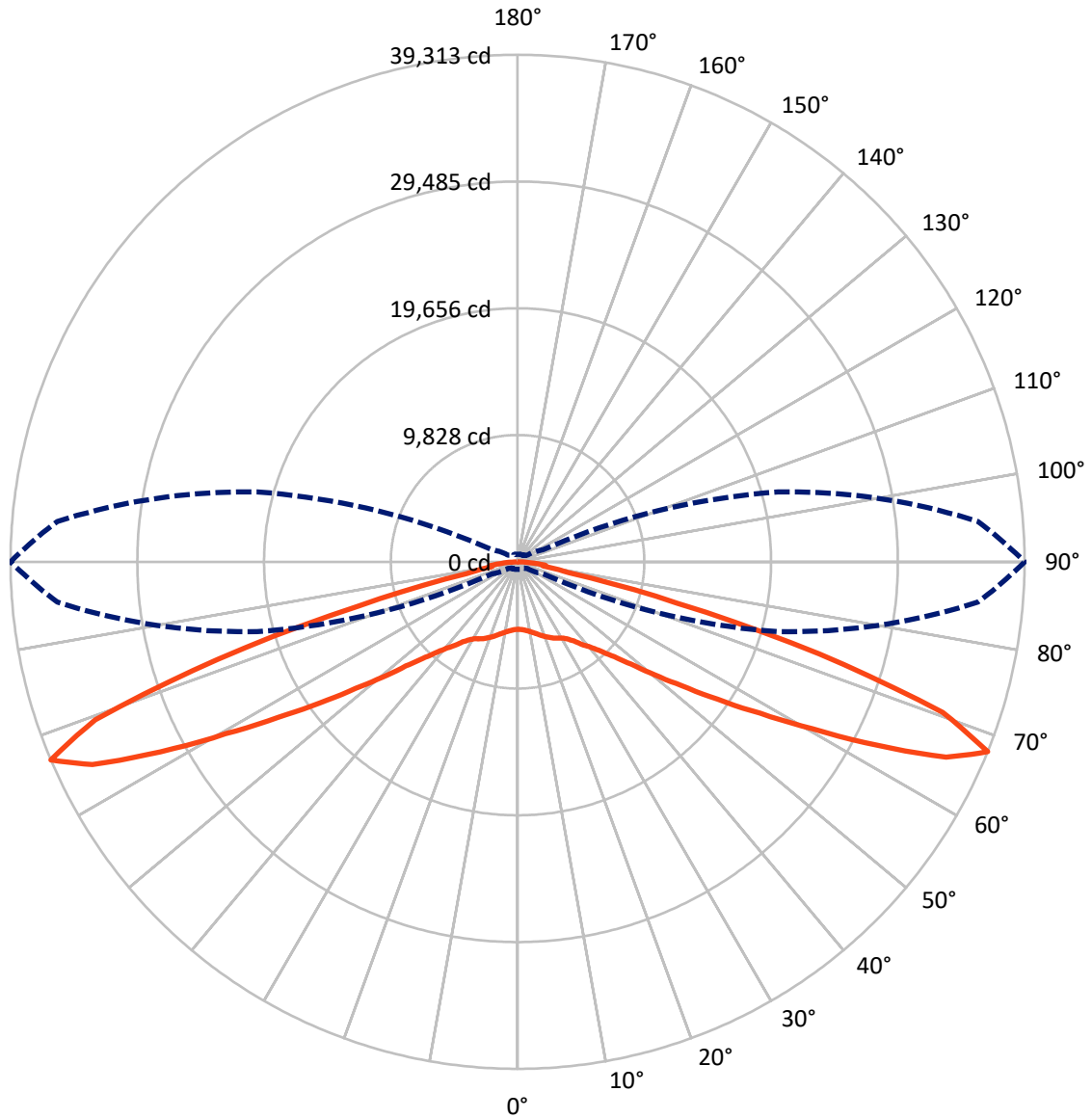
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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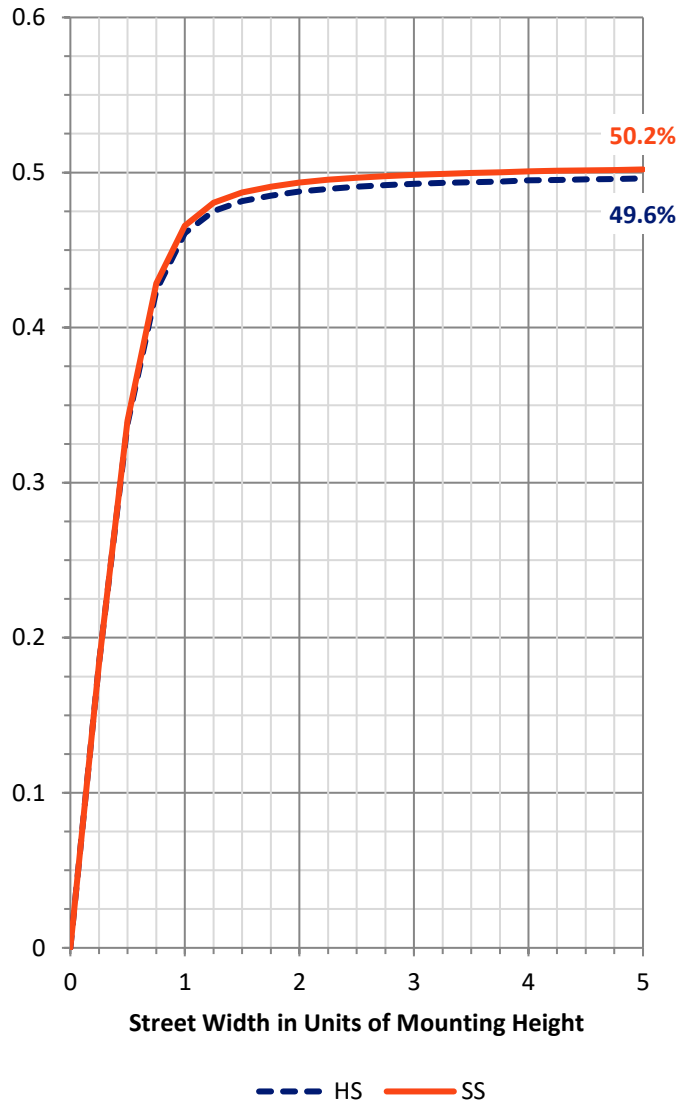
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	14778.9	0.0	14778.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	14778.9	0.0	14778.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	29557.8	0.0	29557.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	521.7	1.8
10°-20°	1669.1	5.6
20°-30°	2793.7	9.5
30°-40°	3784.8	12.8
40°-50°	4794.0	16.2
50°-60°	5988.9	20.3
60°-70°	7039.7	23.8
70°-80°	2693.0	9.1
80°-90°	272.8	0.9
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°	29557.8	100.0
0°-180°	29557.8	100.0

**Coefficient of Utilization**

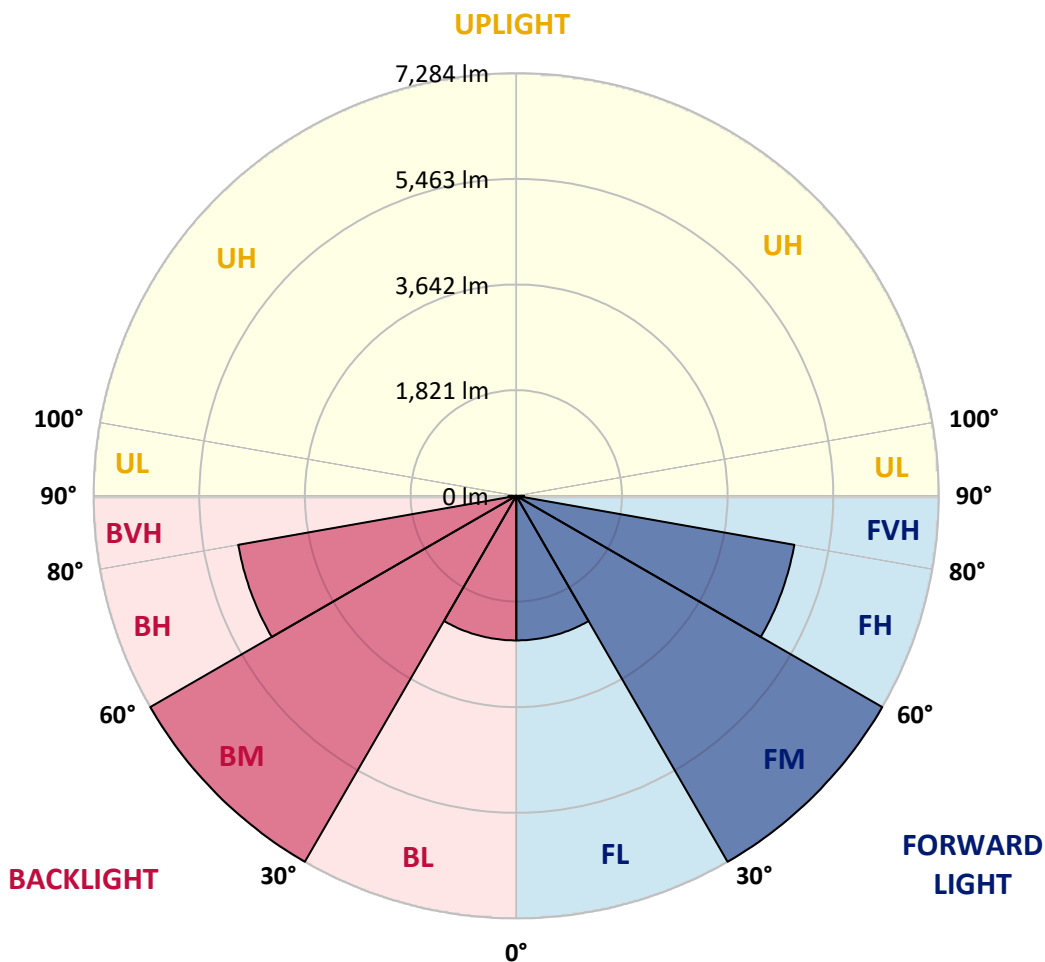


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2492.3	8.4			
FM (30°-60°)	7283.8	24.6			
FH (60°-80°)	4866.4	16.5			G2/5000
FVH (80°-90°)	136.4	0.5			G2/225
BL (0°-30°)	2492.3	8.4	B3/2500		
BM (30°-60°)	7283.8	24.6	B4/8500		
BH (60°-80°)	4866.4	16.5	B4/5000		G4/5000
BVH (80°-90°)	136.4	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**  
 Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5232.6	5232.6	5232.6	5232.6	5232.6	5232.6	5232.6	5232.6	5232.6	5232.6	5232.6
2.5°	5299.7	5296.4	5298.1	5296.4	5301.4	5298.1	5278.5	5262.1	5249.0	5250.6	5245.7
5°	5412.7	5414.4	5416.0	5407.8	5419.2	5412.7	5381.6	5355.4	5329.2	5319.4	5316.1
7.5°	5505.9	5514.2	5519.1	5527.2	5546.9	5546.9	5530.5	5492.9	5435.6	5402.8	5401.2
10°	5599.3	5605.9	5620.6	5646.7	5679.4	5710.6	5704.0	5653.3	5579.6	5524.0	5510.9
12.5°	5632.0	5640.2	5689.3	5764.6	5838.2	5898.8	5898.8	5857.9	5763.0	5677.8	5653.3
15°	5517.5	5532.2	5620.6	5780.9	5974.1	6106.7	6136.1	6078.8	5977.3	5846.5	5816.9
17.5°	5290.0	5326.0	5455.2	5692.6	6013.4	6288.3	6373.4	6345.6	6214.7	6047.7	6013.4
20°	5046.1	5085.4	5222.9	5537.1	5980.6	6394.7	6641.9	6648.4	6486.4	6244.2	6193.4
22.5°	4777.6	4807.1	4983.9	5352.1	5882.5	6419.3	6872.7	6985.6	6766.3	6440.5	6368.6
25°	4476.5	4509.2	4694.1	5091.9	5697.5	6391.4	7083.8	7332.6	7059.3	6650.0	6558.4
27.5°	4188.4	4201.5	4399.5	4803.8	5453.6	6319.4	7239.3	7651.8	7383.3	6823.5	6707.3
30°	3911.8	3942.9	4118.0	4517.4	5173.7	6178.7	7373.5	8015.1	7732.0	7005.2	6856.3
32.5°	3618.8	3656.5	3846.3	4250.6	4893.9	5967.6	7455.3	8412.9	8218.1	7299.9	7141.1
35°	3337.3	3361.9	3553.4	3946.1	4620.5	5722.0	7470.1	8861.3	8845.0	7746.7	7535.5
37.5°	3049.2	3085.2	3278.4	3654.8	4330.8	5461.8	7396.4	9337.6	9601.1	8367.0	8139.5
40°	2772.6	2803.7	2993.6	3373.3	4001.8	5144.2	7221.2	9772.9	10483.3	9005.3	8682.9
42.5°	2471.4	2479.7	2687.5	3073.8	3679.4	4776.0	6969.2	10160.9	11467.0	9861.3	9460.3
45°	2129.4	2150.7	2343.8	2723.5	3309.5	4363.5	6627.2	10481.6	12714.2	11048.0	10501.3
47.5°	1787.3	1805.3	1982.1	2356.9	2905.2	3890.6	6100.1	10763.2	13994.1	12555.4	11838.5
50°	1453.4	1463.3	1607.2	1939.5	2450.2	3392.9	5447.1	10853.2	15441.0	14689.7	13774.7
52.5°	1149.0	1163.7	1273.4	1533.6	1964.1	2805.4	4741.6	10630.6	17130.1	17220.1	15930.4
55°	931.3	936.2	1018.0	1209.5	1535.2	2190.0	3890.6	10010.3	18946.9	20462.5	18817.5
57.5°	802.0	805.3	851.1	957.5	1181.7	1651.5	3018.2	8836.7	20578.7	24261.3	22146.7
60°	728.3	730.0	756.1	818.4	936.2	1266.8	2162.1	7180.4	22189.3	28489.0	26284.4
62.5°	682.6	682.6	700.6	734.9	792.2	972.2	1566.4	5180.3	23292.4	32778.9	31384.4
65°	638.3	638.3	651.4	676.0	707.0	795.4	1157.1	3378.2	23264.6	35903.5	36513.9
67.5°	587.6	587.6	597.4	621.9	640.0	684.2	893.6	2212.8	20897.8	35834.8	39312.8
70°	527.1	527.1	540.1	561.4	576.2	603.9	705.4	1514.0	15352.6	30597.2	34962.3
72.5°	466.5	468.1	476.3	497.5	509.1	525.4	585.9	1060.6	9417.8	20834.0	24446.3
75°	399.4	402.7	410.8	432.1	441.9	448.5	494.3	756.1	4764.5	11232.9	12789.4
77.5°	322.4	329.0	333.9	356.8	363.4	373.2	407.5	546.6	2091.7	4036.2	4072.2
80°	235.6	243.9	258.6	279.9	284.8	291.3	311.0	387.9	947.6	1843.0	2001.7
82.5°	173.5	184.9	166.9	194.8	194.8	186.6	219.3	260.2	435.4	1825.0	2183.4
85°	94.9	96.5	86.7	99.8	106.4	104.8	116.2	127.7	211.2	1217.8	1255.4
87.5°	22.9	24.6	26.2	31.1	37.7	37.7	41.0	36.0	68.7	394.4	225.9
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)