

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: P650943

Luminaire Tested: **GALN-SA6C-840-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650943  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-840-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36590.2 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

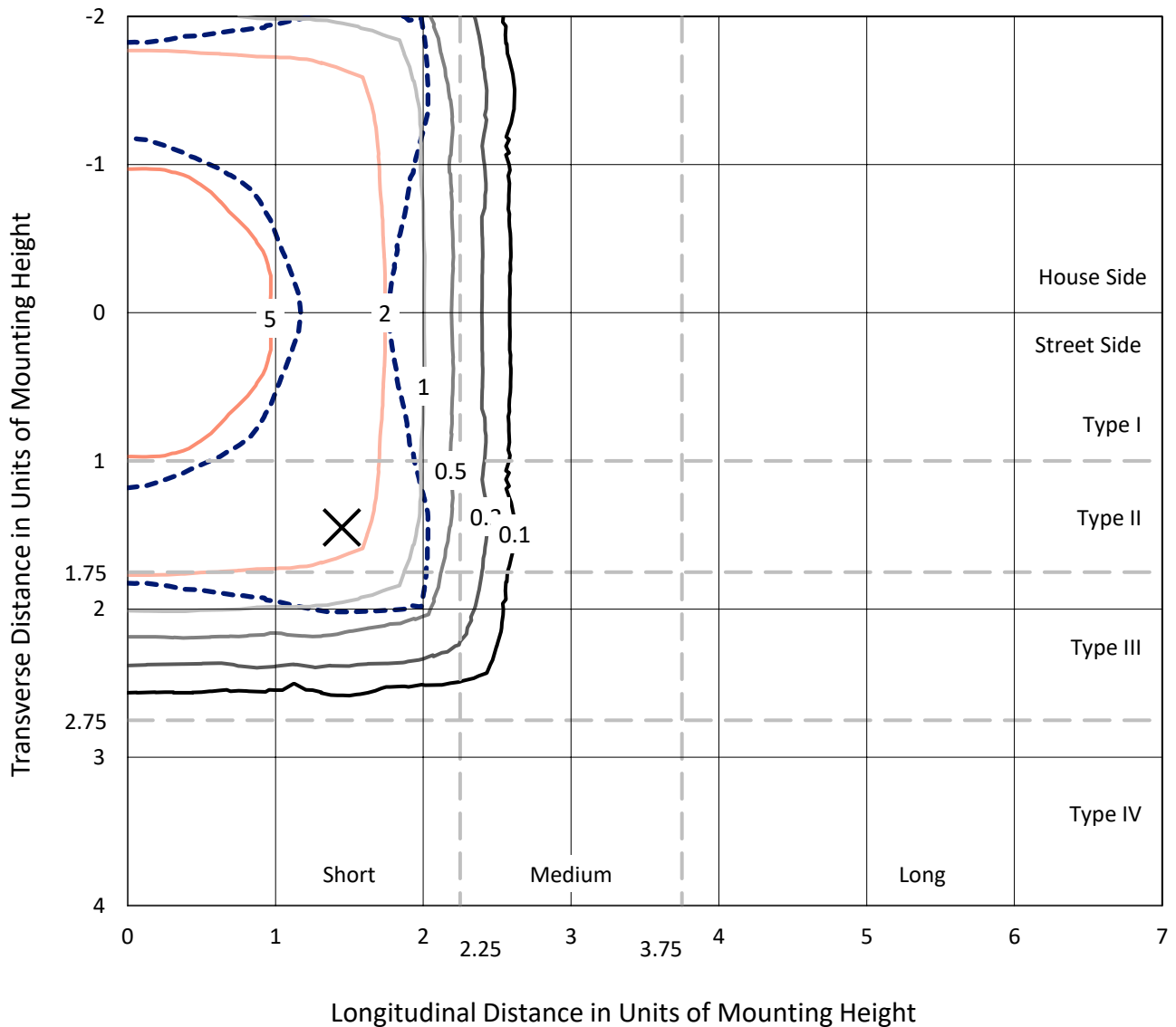
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

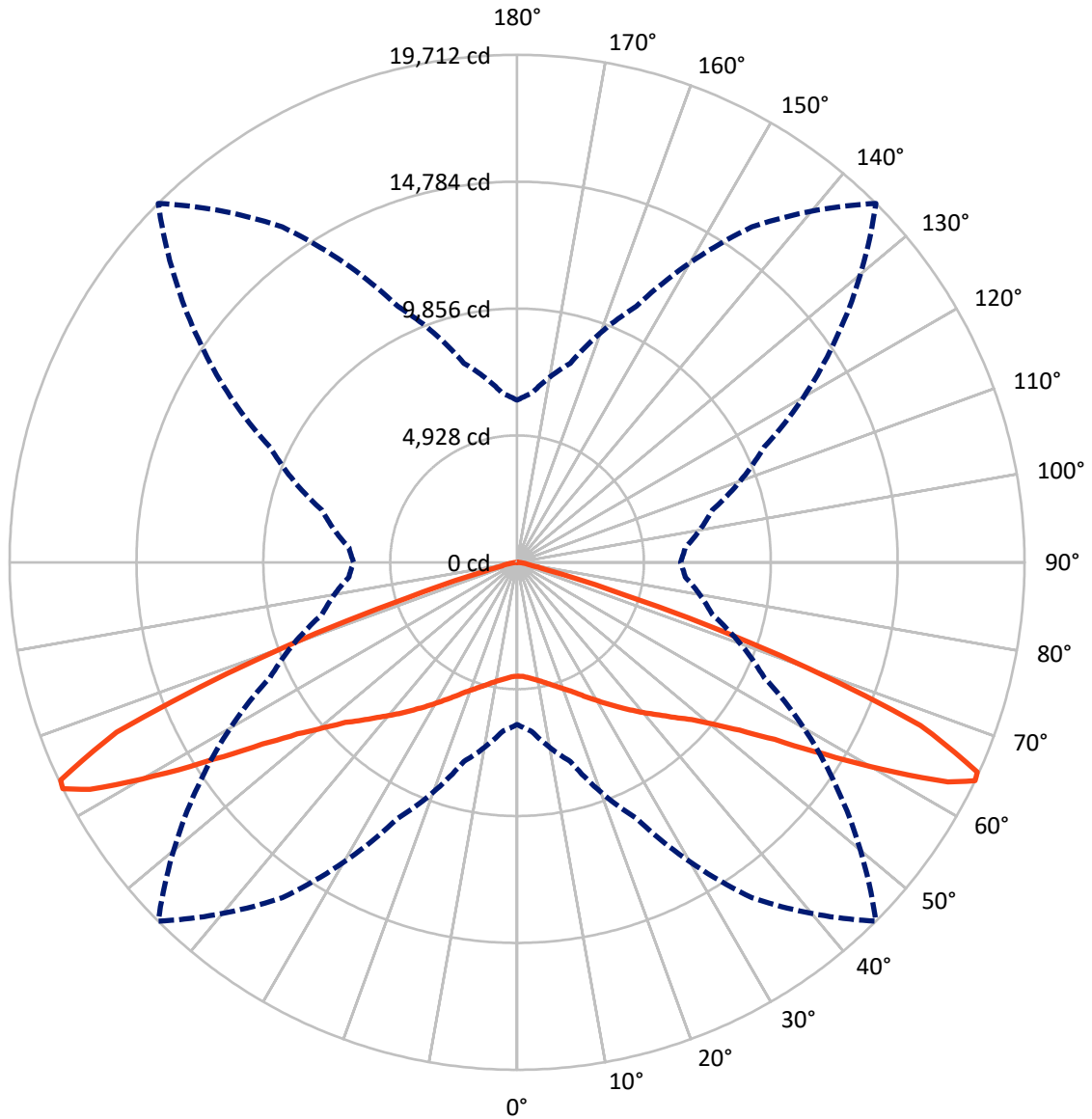
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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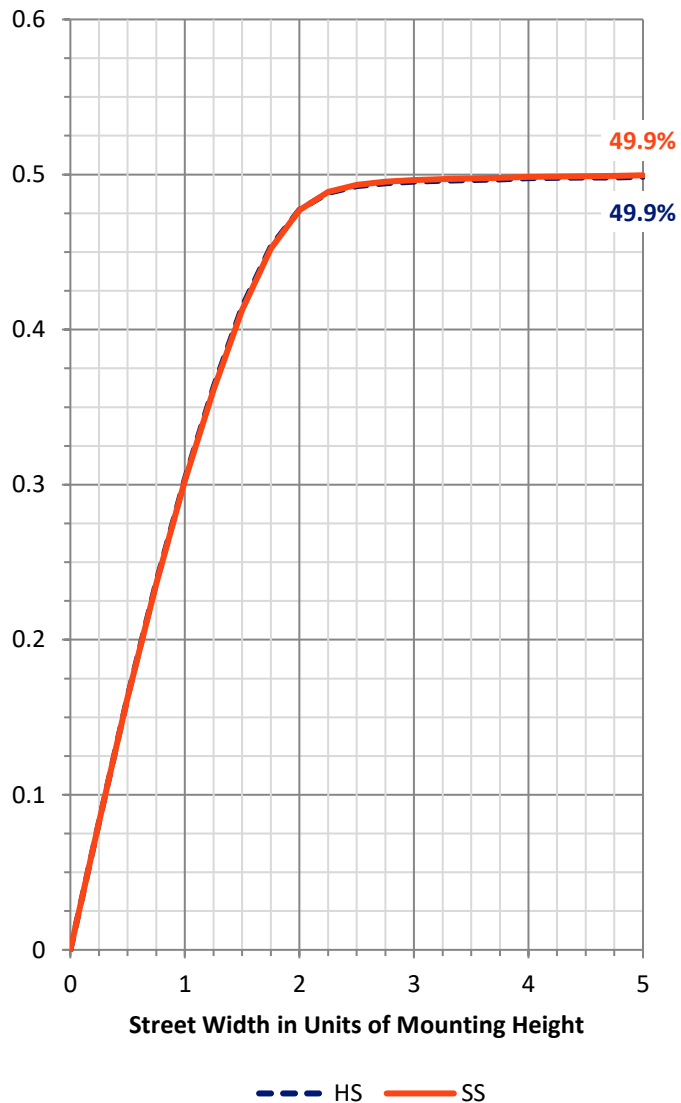
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	18295.1	0.0	18295.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	18295.1	0.0	18295.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	36590.2	0.0	36590.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	434.5	1.2
10°-20°	1401.5	3.8
20°-30°	2648.4	7.2
30°-40°	4386.1	12.0
40°-50°	6847.4	18.7
50°-60°	10585.9	28.9
60°-70°	9128.1	24.9
70°-80°	1034.5	2.8
80°-90°	123.9	0.3
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°	36590.2	100.0
0°-180°	36590.2	100.0

**Coefficient of Utilization**



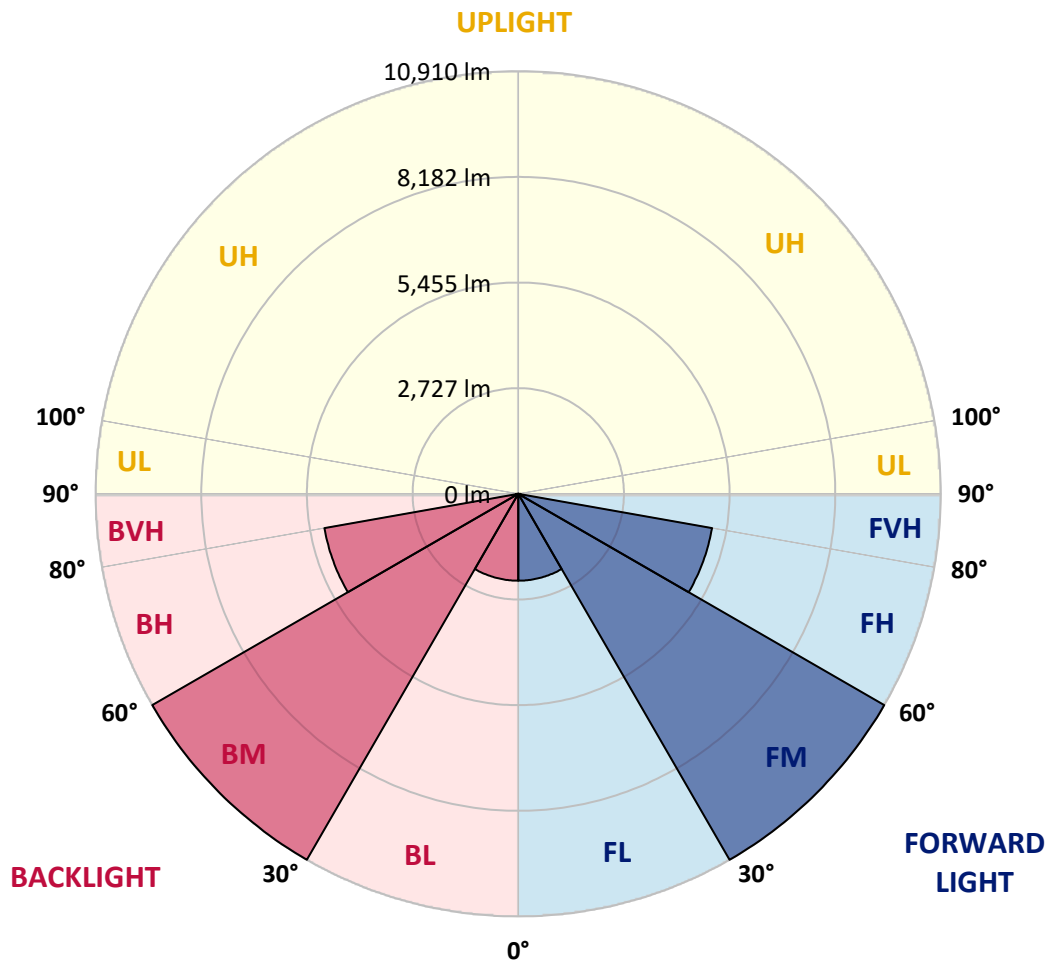
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2242.2	6.1			
FM (30°-60°)	10909.7	29.8			
FH (60°-80°)	5081.3	13.9			G3/7500
FVH (80°-90°)	62.0	0.2			G1/100
BL (0°-30°)	2242.2	6.1	B3/2500		
BM (30°-60°)	10909.7	29.8	B5		
BH (60°-80°)	5081.3	13.9	B5		G3/7500
BVH (80°-90°)	62.0	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-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6	4422.6
2.5°	4440.0	4449.6	4441.9	4440.0	4438.0	4438.0	4438.0	4440.0	4447.7	4453.5	4449.6
5°	4496.2	4504.0	4500.0	4498.1	4496.2	4498.1	4494.2	4492.3	4498.1	4498.1	4496.2
7.5°	4566.0	4575.6	4571.8	4575.6	4577.6	4579.5	4569.8	4562.1	4560.2	4566.0	4562.1
10°	4660.9	4668.6	4670.6	4672.5	4676.5	4674.4	4662.8	4649.3	4647.4	4645.4	4643.5
12.5°	4767.5	4773.3	4775.3	4783.0	4788.8	4790.8	4777.2	4765.6	4746.2	4750.1	4742.3
15°	4887.6	4899.3	4897.4	4909.0	4924.5	4928.3	4914.8	4895.5	4878.0	4868.3	4862.5
17.5°	5035.0	5042.7	5038.9	5050.5	5069.8	5079.6	5067.9	5042.7	5025.2	5004.0	4992.3
20°	5209.4	5222.9	5226.8	5226.8	5244.2	5254.0	5236.5	5228.7	5201.6	5186.1	5176.4
22.5°	5407.0	5412.8	5424.5	5436.1	5453.5	5449.7	5443.9	5432.3	5407.0	5393.5	5377.9
25°	5629.9	5635.7	5664.8	5690.0	5695.8	5692.0	5684.2	5678.3	5655.1	5624.1	5612.5
27.5°	5889.6	5901.2	5940.0	5963.3	5963.3	5965.2	5949.7	5969.1	5918.7	5881.9	5878.0
30°	6215.2	6223.0	6255.9	6279.2	6267.6	6257.9	6253.9	6273.4	6219.1	6153.2	6137.7
32.5°	6536.9	6564.1	6593.1	6643.5	6602.8	6585.4	6581.5	6595.0	6533.1	6459.4	6438.1
35°	6881.9	6901.2	6955.5	6998.1	6961.4	6920.7	6938.1	6980.7	6907.0	6808.2	6804.4
37.5°	7263.6	7281.1	7350.8	7395.4	7368.3	7298.5	7327.6	7378.0	7304.3	7182.3	7157.1
40°	7660.9	7697.8	7785.0	7831.5	7786.9	7693.9	7748.1	7802.5	7736.5	7595.1	7538.9
42.5°	8106.7	8164.8	8290.8	8314.0	8228.8	8102.9	8197.8	8285.0	8238.5	8075.7	8054.3
45°	8628.1	8662.9	8818.0	8868.3	8750.1	8593.2	8711.3	8870.3	8835.4	8647.4	8606.7
47.5°	9211.4	9244.4	9405.2	9480.8	9331.6	9120.3	9333.5	9540.8	9519.5	9317.9	9298.6
50°	9901.3	9909.1	10131.9	10217.2	10067.9	9885.8	10075.7	10333.5	10248.2	9990.5	9986.5
52.5°	10657.2	10666.8	10947.8	11112.6	11029.2	10823.8	11048.6	11205.6	10988.5	10651.3	10626.1
55°	11312.2	11360.6	11744.4	12182.3	12296.7	12147.5	12215.3	12141.7	11606.7	11133.9	11060.2
57.5°	11579.6	11674.6	12257.9	13075.8	13820.0	14040.9	13517.6	12816.1	11852.9	11184.3	11112.6
60°	10926.5	11029.2	11934.3	13486.6	15385.8	16345.2	14874.3	12930.5	11292.8	10352.9	10240.4
62.5°	8750.1	8779.2	10110.6	12519.5	16298.7	18783.2	15446.0	11955.6	9662.9	8385.8	8341.2
64°	6296.6	6595.0	8005.9	10976.9	15899.4	19711.5	15116.5	10589.3	7849.0	6556.3	6347.0
65°	4709.3	4790.8	6453.6	9374.2	15195.9	19641.7	14477.0	9283.0	6500.1	5017.5	4785.0
67.5°	1779.1	1788.8	2381.8	4672.5	10818.0	16899.5	11048.6	5050.5	2738.4	1980.6	1908.9
70°	738.4	751.9	874.1	1571.7	4649.3	10850.9	5327.6	1821.7	1002.0	812.0	800.4
72.5°	540.7	548.4	585.3	697.7	1430.3	4455.4	1752.0	773.3	587.2	525.2	519.4
75°	424.5	428.3	455.4	513.6	666.7	1234.5	728.7	531.0	447.7	403.1	399.2
77.5°	323.6	333.4	352.7	391.5	447.7	585.3	482.6	397.3	345.0	308.1	302.3
80°	222.9	234.5	271.3	286.9	300.4	379.9	329.5	300.4	269.4	224.8	211.3
82.5°	137.6	145.3	182.2	195.7	189.9	213.2	211.3	215.1	191.8	139.5	129.9
85°	71.7	75.6	98.8	102.7	94.9	87.2	108.5	126.0	118.2	79.5	77.5
87.5°	15.5	17.4	21.3	19.3	21.3	21.3	27.2	40.7	42.6	27.2	25.2
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)