

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: P455440

Luminaire Tested: **GALN-SA6C-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455440  
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-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 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: 31984 lumens  
Efficiency: N/A  
Efficacy: 99.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

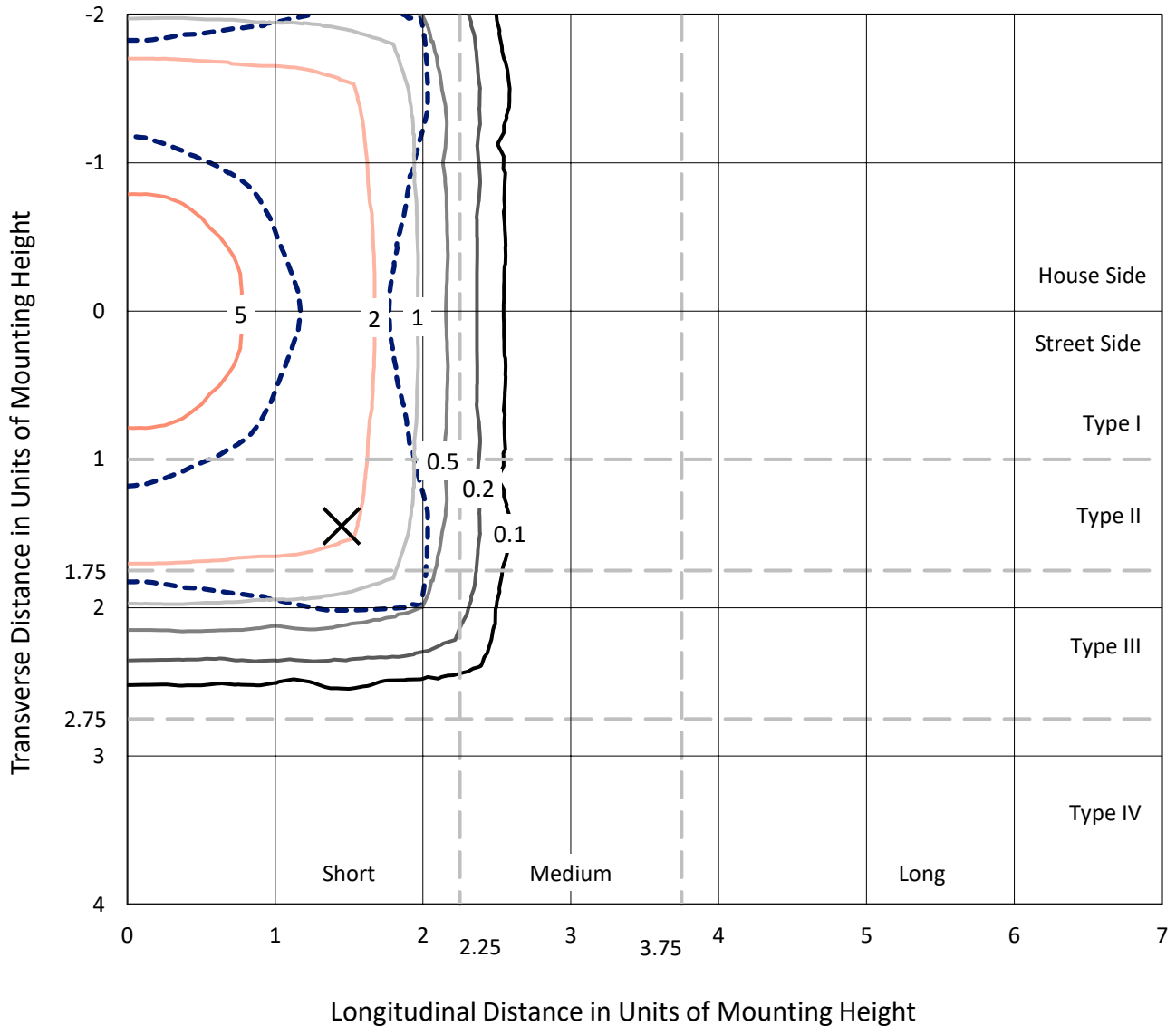
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

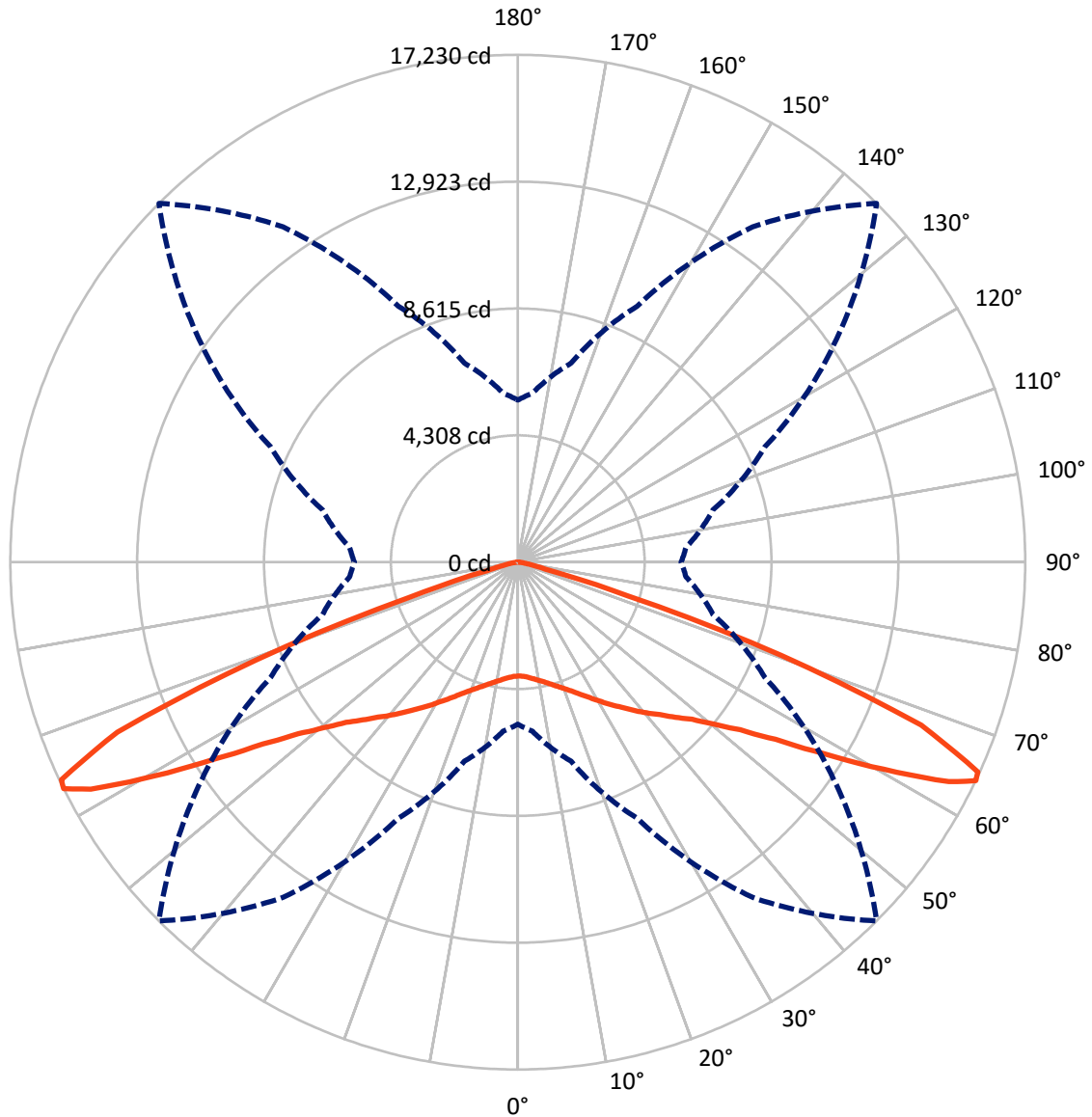
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	15992.0	0.0	15992.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15992.0	0.0	15992.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31984.0	0.0	31984.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	379.8	1.2
10°-20°	1225.1	3.8
20°-30°	2315.0	7.2
30°-40°	3833.9	12.0
40°-50°	5985.4	18.7
50°-60°	9253.3	28.9
60°-70°	7979.0	24.9
70°-80°	904.2	2.8
80°-90°	108.3	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°	31984.0	100.0
0°-180°	31984.0	100.0

**Coefficient of Utilization**



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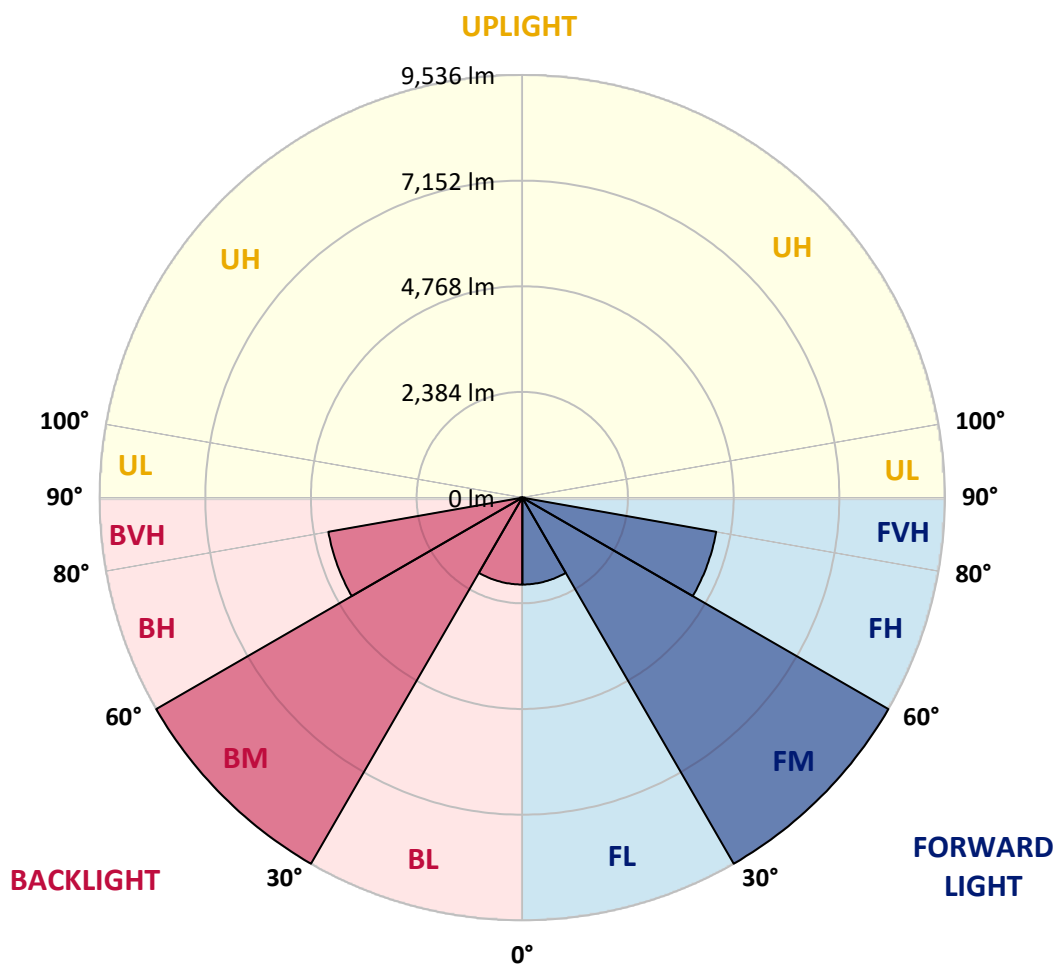
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1959.9	6.1			
FM	(30°-60°)	9536.3	29.8			
FH	(60°-80°)	4441.6	13.9			G2/5000
FVH	(80°-90°)	54.2	0.2			G1/100
BL	(0°-30°)	1959.9	6.1	B3/2500		
BM	(30°-60°)	9536.3	29.8	B5		
BH	(60°-80°)	4441.6	13.9	B4/5000		G2/5000
BVH	(80°-90°)	54.2	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8	3865.8
2.5°	3881.1	3889.5	3882.7	3881.1	3879.4	3879.4	3879.4	3881.1	3887.8	3892.9	3889.5
5°	3930.2	3937.0	3933.6	3931.9	3930.2	3931.9	3928.5	3926.8	3931.9	3931.9	3930.2
7.5°	3991.2	3999.6	3996.2	3999.6	4001.3	4003.0	3994.6	3987.8	3986.1	3991.2	3987.8
10°	4074.2	4080.9	4082.6	4084.3	4087.7	4086.0	4075.9	4064.0	4062.3	4060.6	4058.9
12.5°	4167.3	4172.4	4174.1	4180.9	4186.0	4187.7	4175.8	4165.6	4148.7	4152.1	4145.3
15°	4272.4	4282.5	4280.8	4291.0	4304.6	4307.9	4296.1	4279.2	4263.9	4255.4	4250.4
17.5°	4401.1	4407.9	4404.5	4414.7	4431.6	4440.1	4429.9	4407.9	4392.7	4374.0	4363.9
20°	4553.6	4565.4	4568.8	4568.8	4584.1	4592.5	4577.3	4570.5	4546.8	4533.3	4524.8
22.5°	4726.4	4731.5	4741.6	4751.8	4767.0	4763.6	4758.6	4748.4	4726.4	4714.5	4701.0
25°	4921.2	4926.3	4951.7	4973.7	4978.8	4975.4	4968.6	4963.5	4943.2	4916.1	4905.9
27.5°	5148.2	5158.4	5192.2	5212.6	5212.6	5214.3	5200.7	5217.6	5173.6	5141.4	5138.0
30°	5432.8	5439.6	5468.4	5488.7	5478.5	5470.1	5466.7	5483.6	5436.2	5378.6	5365.0
32.5°	5714.0	5737.7	5763.1	5807.2	5771.6	5756.4	5753.0	5764.8	5710.6	5646.2	5627.6
35°	6015.5	6032.5	6079.9	6117.2	6085.0	6049.4	6064.7	6101.9	6037.6	5951.2	5947.8
37.5°	6349.3	6364.5	6425.5	6464.5	6440.7	6379.8	6405.2	6449.2	6384.8	6278.1	6256.1
40°	6696.5	6728.7	6805.0	6845.6	6806.7	6725.3	6772.8	6820.2	6762.6	6639.0	6589.8
42.5°	7086.2	7137.0	7247.1	7267.4	7192.9	7082.8	7165.8	7242.0	7201.4	7059.1	7040.4
45°	7541.9	7572.4	7707.9	7751.9	7648.6	7511.4	7614.7	7753.6	7723.1	7558.8	7523.2
47.5°	8051.8	8080.6	8221.2	8287.3	8156.8	7972.2	8158.5	8339.8	8321.1	8145.0	8128.0
50°	8654.9	8661.6	8856.5	8931.0	8800.5	8641.3	8807.3	9032.6	8958.1	8732.8	8729.4
52.5°	9315.5	9324.0	9569.6	9713.6	9640.8	9461.2	9657.7	9795.0	9605.2	9310.5	9288.4
55°	9888.1	9930.5	10265.9	10648.7	10748.7	10618.3	10677.5	10613.2	10145.6	9732.3	9667.9
57.5°	10121.9	10204.9	10714.8	11429.7	12080.2	12273.3	11815.9	11202.7	10360.8	9776.3	9713.6
60°	9551.0	9640.8	10431.9	11788.8	13449.0	14287.6	13001.8	11302.6	9871.2	9049.6	8951.3
62.5°	7648.6	7674.0	8837.8	10943.5	14246.9	16418.7	13501.5	10450.5	8446.5	7330.1	7291.2
64°	5503.9	5764.8	6998.1	9595.1	13897.9	17230.1	13213.5	9256.2	6860.9	5730.9	5548.0
65°	4116.5	4187.7	5641.2	8194.1	13283.0	17169.1	12654.5	8114.5	5681.8	4385.9	4182.6
67.5°	1555.1	1563.6	2082.0	4084.3	9456.1	14772.0	9657.7	4414.7	2393.7	1731.3	1668.6
70°	645.4	657.3	764.0	1373.9	4064.0	9484.9	4656.9	1592.4	875.8	709.8	699.6
72.5°	472.6	479.4	511.6	609.9	1250.2	3894.6	1531.4	675.9	513.3	459.1	454.0
75°	371.0	374.4	398.1	448.9	582.8	1079.1	637.0	464.2	391.3	352.4	349.0
77.5°	282.9	291.4	308.3	342.2	391.3	511.6	421.8	347.3	301.5	269.4	264.3
80°	194.8	205.0	237.2	250.7	262.6	332.0	288.0	262.6	235.5	196.5	184.7
82.5°	120.3	127.1	159.2	171.1	166.0	186.3	184.7	188.0	167.7	122.0	113.5
85°	62.7	66.1	86.4	89.8	83.0	76.2	94.9	110.1	103.3	69.5	67.8
87.5°	13.6	15.2	18.6	16.9	18.6	18.6	23.7	35.6	37.3	23.7	22.0
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)