

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: P455672

Luminaire Tested: **GALN-SA6D-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455672  
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-SA6D-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35193 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

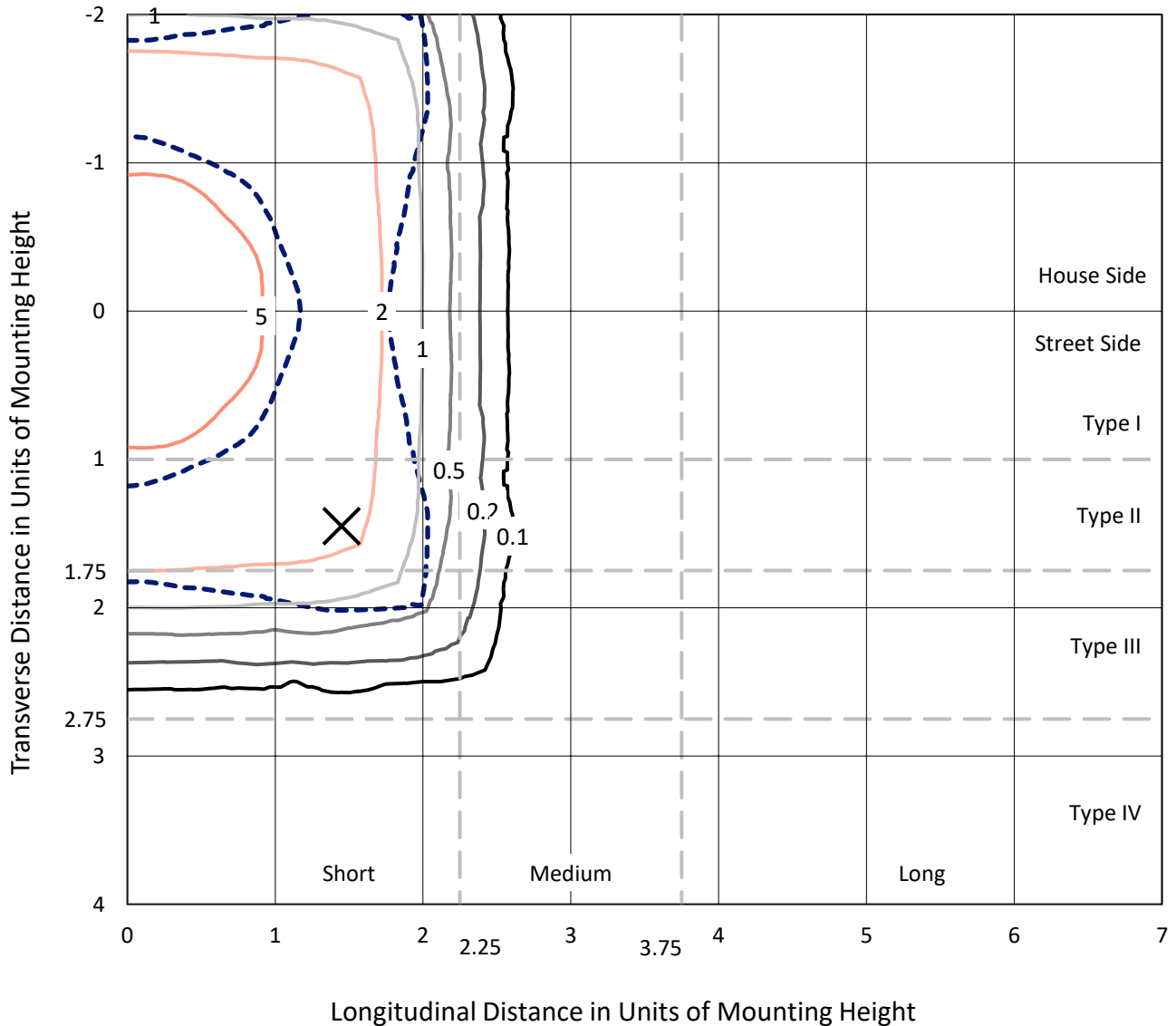
Input Watts (W): 368  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

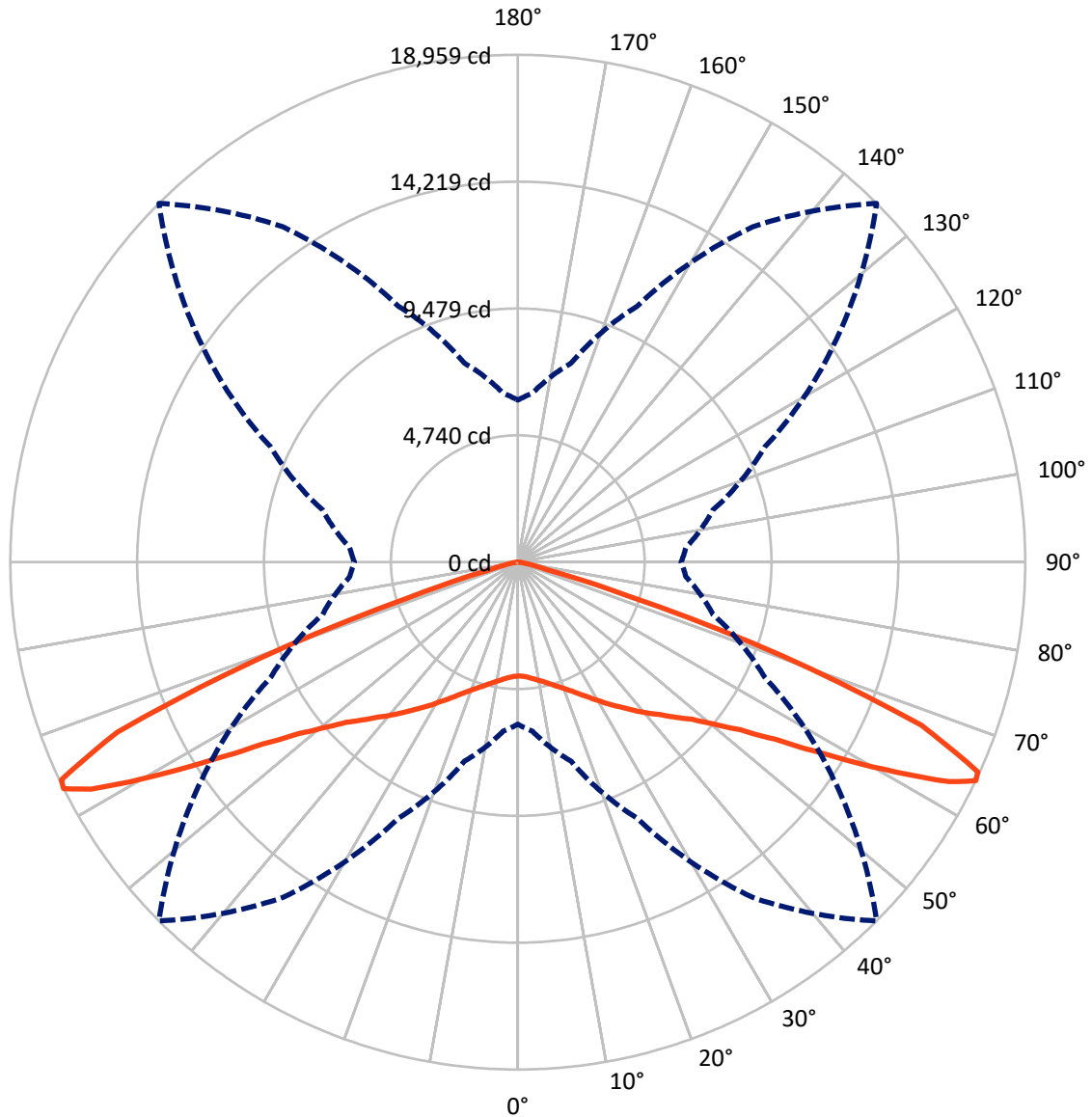
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	17596.5	0.0	17596.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	17596.5	0.0	17596.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	35193.0	0.0	35193.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	417.9	1.2
10°-20°	1348.0	3.8
20°-30°	2547.3	7.2
30°-40°	4218.6	12.0
40°-50°	6585.9	18.7
50°-60°	10181.7	28.9
60°-70°	8779.5	24.9
70°-80°	994.9	2.8
80°-90°	119.2	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°	35193.0	100.0
0°-180°	35193.0	100.0

**Coefficient of Utilization**



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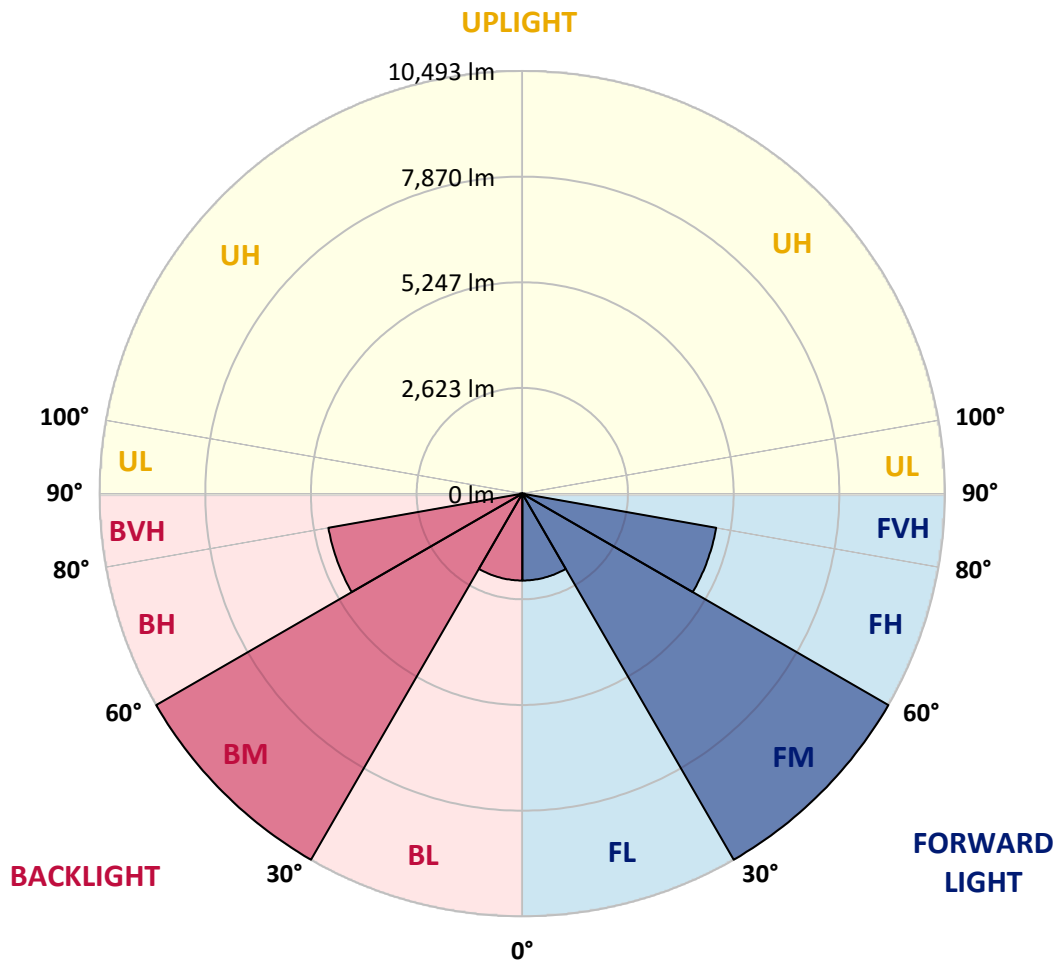
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2156.6	6.1			
FM	(30°-60°)	10493.1	29.8			
FH	(60°-80°)	4887.2	13.9			G2/5000
FVH	(80°-90°)	59.6	0.2			G1/100
BL	(0°-30°)	2156.6	6.1	B3/2500		
BM	(30°-60°)	10493.1	29.8	B5		
BH	(60°-80°)	4887.2	13.9	B4/5000		G2/5000
BVH	(80°-90°)	59.6	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°	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7	4253.7
2.5°	4270.4	4279.8	4272.3	4270.4	4268.6	4268.6	4268.6	4270.4	4277.9	4283.5	4279.8
5°	4324.5	4332.0	4328.2	4326.4	4324.5	4326.4	4322.6	4320.8	4326.4	4326.4	4324.5
7.5°	4391.6	4400.9	4397.2	4400.9	4402.8	4404.7	4395.3	4387.9	4386.0	4391.6	4387.9
10°	4482.9	4490.4	4492.3	4494.1	4497.9	4496.0	4484.8	4471.8	4469.9	4468.0	4466.2
12.5°	4585.5	4591.1	4592.9	4600.4	4606.0	4607.8	4594.8	4583.6	4565.0	4568.7	4561.2
15°	4701.0	4712.2	4710.3	4721.5	4736.4	4740.2	4727.1	4708.5	4691.7	4682.4	4676.8
17.5°	4842.7	4850.1	4846.4	4857.6	4876.2	4885.6	4874.4	4850.1	4833.4	4812.9	4801.7
20°	5010.5	5023.5	5027.2	5027.2	5044.0	5053.3	5036.5	5029.1	5003.0	4988.1	4978.8
22.5°	5200.6	5206.2	5217.4	5228.5	5245.3	5241.6	5236.0	5224.8	5200.6	5187.5	5172.6
25°	5414.9	5420.5	5448.5	5472.7	5478.3	5474.6	5467.1	5461.5	5439.2	5409.4	5398.2
27.5°	5664.7	5675.9	5713.2	5735.6	5735.6	5737.4	5722.5	5741.1	5692.7	5657.3	5653.5
30°	5977.9	5985.3	6017.0	6039.4	6028.2	6018.9	6015.2	6033.8	5981.6	5918.2	5903.3
32.5°	6287.3	6313.4	6341.4	6389.8	6350.7	6333.9	6330.2	6343.2	6283.6	6212.7	6192.2
35°	6619.1	6637.7	6689.9	6730.9	6695.5	6656.4	6673.1	6714.2	6643.3	6548.3	6544.5
37.5°	6986.3	7003.1	7070.2	7113.1	7087.0	7019.9	7047.8	7096.3	7025.4	6908.0	6883.8
40°	7368.4	7403.8	7487.7	7532.5	7489.6	7400.1	7452.3	7504.5	7441.1	7305.0	7251.0
42.5°	7797.1	7853.1	7974.2	7996.6	7914.6	7793.4	7884.8	7968.6	7923.9	7767.3	7746.8
45°	8298.6	8332.1	8481.2	8529.7	8416.0	8265.0	8378.7	8531.6	8498.0	8317.2	8278.1
47.5°	8859.6	8891.3	9046.0	9118.7	8975.2	8772.0	8977.1	9176.5	9156.0	8962.1	8943.5
50°	9523.2	9530.7	9745.0	9827.0	9683.5	9508.3	9691.0	9938.9	9856.9	9609.0	9605.2
52.5°	10250.2	10259.5	10529.8	10688.2	10608.1	10410.5	10626.7	10777.7	10568.9	10244.6	10220.4
55°	10880.2	10926.8	11295.9	11717.2	11827.1	11683.6	11748.8	11678.0	11163.5	10708.7	10637.9
57.5°	11137.4	11228.8	11789.8	12576.5	13292.2	13504.7	13001.5	12326.7	11400.3	10757.2	10688.2
60°	10509.3	10608.1	11478.6	12971.6	14798.4	15721.0	14306.3	12436.7	10861.6	9957.5	9849.4
62.5°	8416.0	8444.0	9724.5	12041.5	15676.3	18066.0	14856.1	11499.1	9293.9	8065.6	8022.7
64°	6056.2	6343.2	7700.2	10557.7	15292.3	18958.8	14539.3	10184.9	7549.2	6305.9	6104.6
65°	4529.5	4607.8	6207.1	9016.2	14615.7	18891.7	13924.1	8928.6	6251.9	4825.9	4602.2
67.5°	1711.2	1720.5	2290.9	4494.1	10404.9	16254.1	10626.7	4857.6	2633.8	1905.0	1836.0
70°	710.2	723.2	840.7	1511.7	4471.8	10436.6	5124.2	1752.2	963.7	781.0	769.8
72.5°	520.1	527.5	562.9	671.0	1375.6	4285.4	1685.1	743.7	564.8	505.1	499.6
75°	408.2	411.9	438.0	494.0	641.2	1187.4	700.9	510.7	430.6	387.7	384.0
77.5°	311.3	320.6	339.2	376.5	430.6	562.9	464.1	382.1	331.8	296.4	290.8
80°	214.4	225.5	261.0	275.9	288.9	365.3	316.9	288.9	259.1	216.2	203.2
82.5°	132.3	139.8	175.2	188.3	182.7	205.0	203.2	206.9	184.5	134.2	124.9
85°	69.0	72.7	95.1	98.8	91.3	83.9	104.4	121.2	113.7	76.4	74.6
87.5°	14.9	16.8	20.5	18.6	20.5	20.5	26.1	39.1	41.0	26.1	24.2
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)