

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: P455208

Luminaire Tested: **GALN-SA6B-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455208  
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-SA6B-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25887 lumens  
Efficiency: N/A  
Efficacy: 106.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

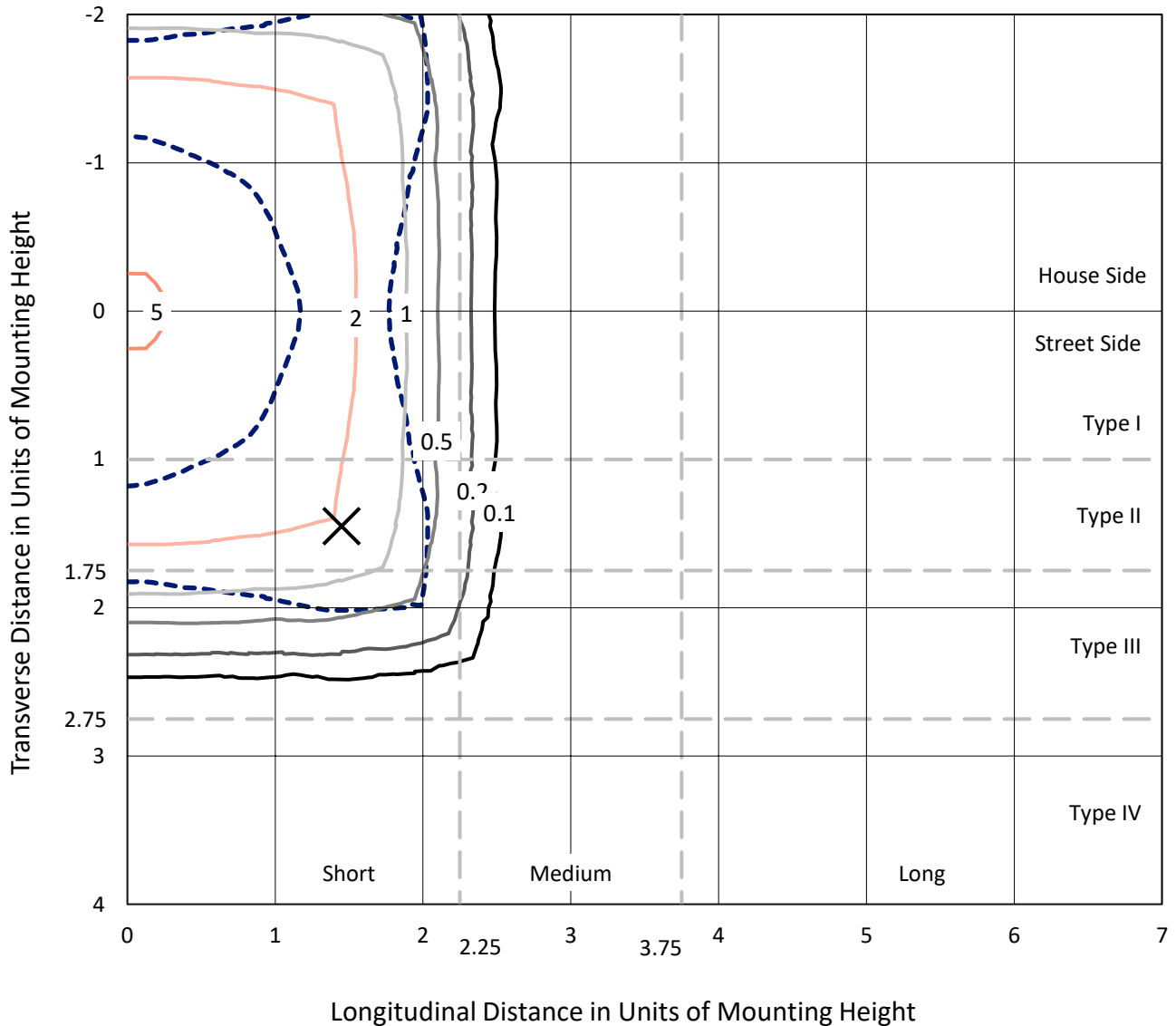
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

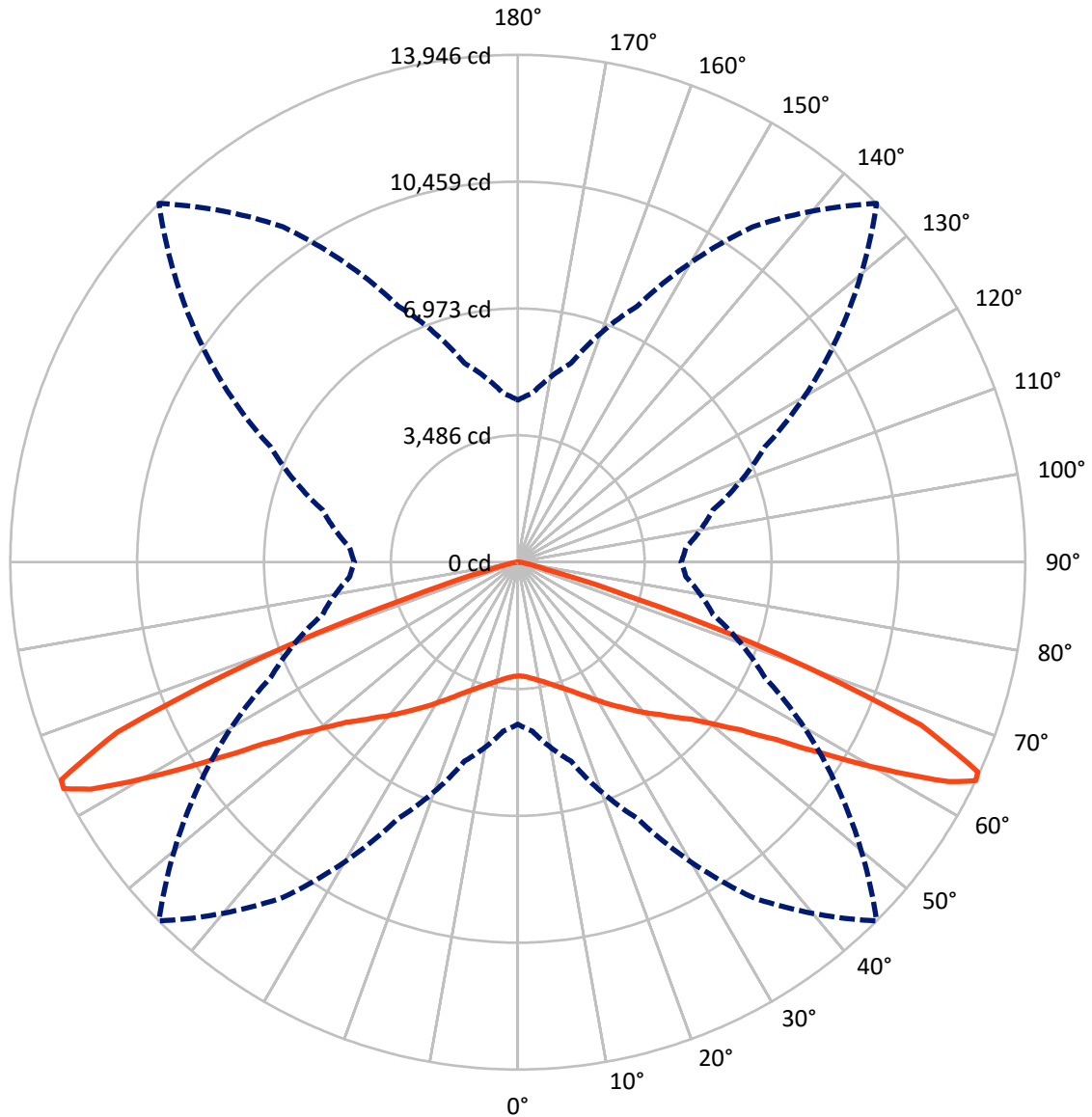
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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	12943.5	0.0	12943.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	12943.5	0.0	12943.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	25887.0	0.0	25887.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	307.4	1.2
10°-20°	991.5	3.8
20°-30°	1873.7	7.2
30°-40°	3103.1	12.0
40°-50°	4844.4	18.7
50°-60°	7489.4	28.9
60°-70°	6458.0	24.9
70°-80°	731.9	2.8
80°-90°	87.7	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°	25887.0	100.0
0°-180°	25887.0	100.0



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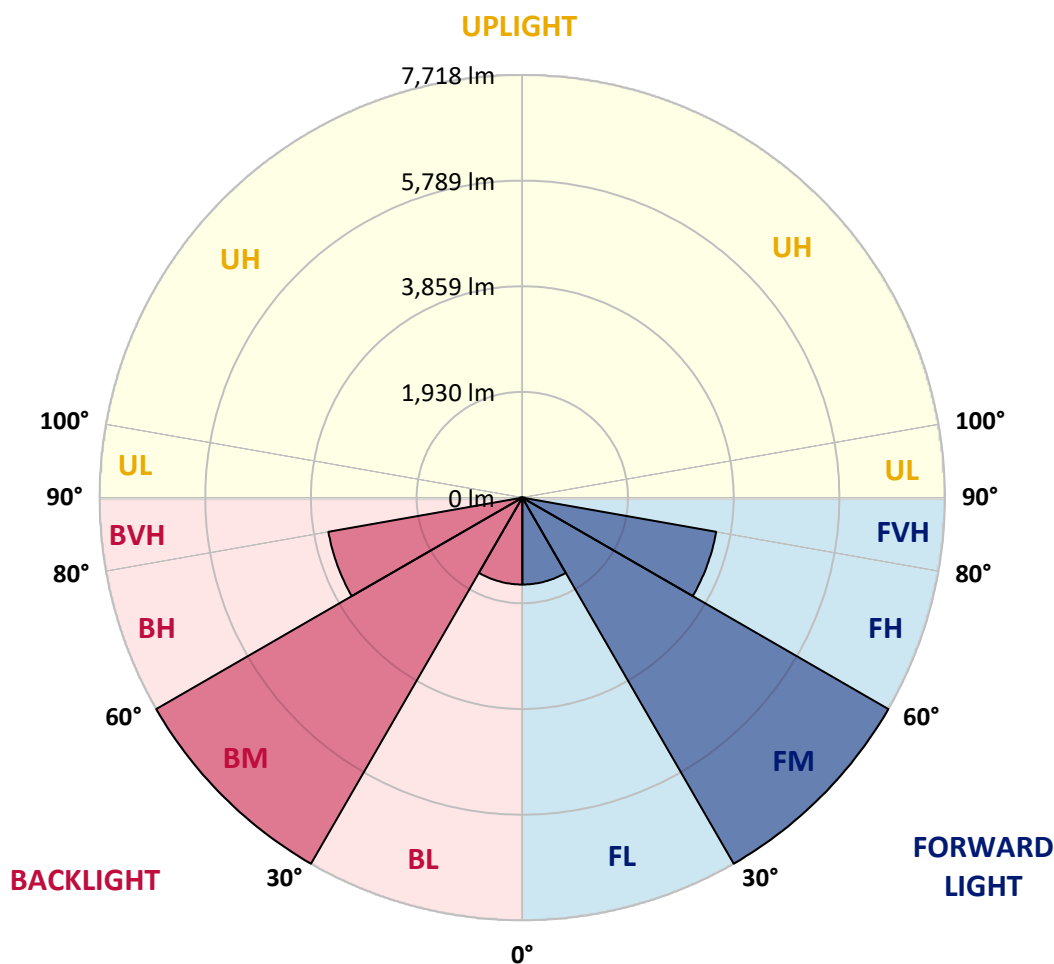
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1586.3	6.1			
FM	(30°-60°)	7718.4	29.8			
FH	(60°-80°)	3594.9	13.9			G2/5000
FVH	(80°-90°)	43.8	0.2			G1/100
BL	(0°-30°)	1586.3	6.1	B3/2500		
BM	(30°-60°)	7718.4	29.8	B4/8500		
BH	(60°-80°)	3594.9	13.9	B4/5000		G2/5000
BVH	(80°-90°)	43.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3128.9	3128.9	3128.9	3128.9	3128.9	3128.9	3128.9	3128.9	3128.9	3128.9	3128.9
2.5°	3141.2	3148.1	3142.6	3141.2	3139.8	3139.8	3139.8	3141.2	3146.7	3150.8	3148.1
5°	3181.0	3186.5	3183.7	3182.4	3181.0	3182.4	3179.6	3178.2	3182.4	3182.4	3181.0
7.5°	3230.3	3237.2	3234.5	3237.2	3238.6	3239.9	3233.1	3227.6	3226.2	3230.3	3227.6
10°	3297.5	3303.0	3304.4	3305.8	3308.5	3307.1	3298.9	3289.3	3287.9	3286.6	3285.2
12.5°	3372.9	3377.1	3378.4	3383.9	3388.0	3389.4	3379.8	3371.6	3357.9	3360.6	3355.1
15°	3457.9	3466.2	3464.8	3473.0	3484.0	3486.7	3477.1	3463.4	3451.1	3444.2	3440.1
17.5°	3562.2	3567.6	3564.9	3573.1	3586.8	3593.7	3585.5	3567.6	3555.3	3540.2	3532.0
20°	3685.6	3695.1	3697.9	3697.9	3710.2	3717.1	3704.7	3699.3	3680.1	3669.1	3662.2
22.5°	3825.4	3829.5	3837.7	3846.0	3858.3	3855.6	3851.5	3843.2	3825.4	3815.8	3804.8
25°	3983.1	3987.2	4007.8	4025.6	4029.7	4027.0	4021.5	4017.4	4000.9	3979.0	3970.7
27.5°	4166.8	4175.0	4202.5	4218.9	4218.9	4220.3	4209.3	4223.0	4187.4	4161.3	4158.6
30°	4397.2	4402.6	4426.0	4442.4	4434.2	4427.3	4424.6	4438.3	4399.9	4353.3	4342.3
32.5°	4624.8	4644.0	4664.5	4700.2	4671.4	4659.0	4656.3	4665.9	4622.0	4569.9	4554.8
35°	4868.8	4882.5	4920.9	4951.1	4925.0	4896.2	4908.6	4938.7	4886.6	4816.7	4814.0
37.5°	5138.9	5151.3	5200.6	5232.2	5213.0	5163.6	5184.2	5219.8	5167.7	5081.3	5063.5
40°	5420.0	5446.1	5507.8	5540.7	5509.1	5443.3	5481.7	5520.1	5473.5	5373.4	5333.6
42.5°	5735.4	5776.5	5865.6	5882.1	5821.7	5732.6	5799.8	5861.5	5828.6	5713.4	5698.3
45°	6104.2	6128.9	6238.6	6274.2	6190.6	6079.5	6163.2	6275.6	6250.9	6117.9	6089.1
47.5°	6516.9	6540.2	6654.0	6707.5	6601.9	6452.5	6603.3	6750.0	6734.9	6592.3	6578.6
50°	7005.0	7010.5	7168.2	7228.5	7122.9	6994.0	7128.4	7310.8	7250.4	7068.1	7065.3
52.5°	7539.7	7546.6	7745.4	7862.0	7803.0	7657.7	7816.7	7927.8	7774.2	7535.6	7517.8
55°	8003.2	8037.5	8308.9	8618.8	8699.7	8594.1	8642.1	8590.0	8211.6	7877.0	7824.9
57.5°	8192.4	8259.6	8672.3	9250.9	9777.4	9933.7	9563.5	9067.2	8385.7	7912.7	7862.0
60°	7730.3	7803.0	8443.3	9541.6	10885.3	11564.0	10523.3	9148.1	7989.5	7324.5	7245.0
62.5°	6190.6	6211.1	7153.1	8857.4	11531.1	13288.8	10927.8	8458.4	6836.4	5932.8	5901.3
64°	4454.7	4665.9	5664.1	7766.0	11248.6	13945.6	10694.7	7491.8	5553.0	4638.5	4490.4
65°	3331.8	3389.4	4565.8	6632.1	10750.9	13896.2	10242.2	6567.6	4598.7	3549.8	3385.3
67.5°	1258.7	1265.5	1685.1	3305.8	7653.6	11956.1	7816.7	3573.1	1937.4	1401.3	1350.5
70°	522.4	532.0	618.4	1112.0	3289.3	7676.9	3769.2	1288.8	708.9	574.5	566.3
72.5°	382.5	388.0	414.1	493.6	1011.9	3152.2	1239.5	547.1	415.4	371.6	367.5
75°	300.3	303.0	322.2	363.3	471.7	873.4	515.5	375.7	316.7	285.2	282.4
77.5°	229.0	235.8	249.5	277.0	316.7	414.1	341.4	281.1	244.1	218.0	213.9
80°	157.7	165.9	192.0	202.9	212.5	268.7	233.1	212.5	190.6	159.0	149.5
82.5°	97.3	102.8	128.9	138.5	134.4	150.8	149.5	152.2	135.7	98.7	91.9
85°	50.7	53.5	69.9	72.7	67.2	61.7	76.8	89.1	83.6	56.2	54.8
87.5°	11.0	12.3	15.1	13.7	15.1	15.1	19.2	28.8	30.2	19.2	17.8
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)