

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: P530180

Luminaire Tested: **GALN-SA5B-827-U-RW-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530180  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA5B-827-U-RW-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18356 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

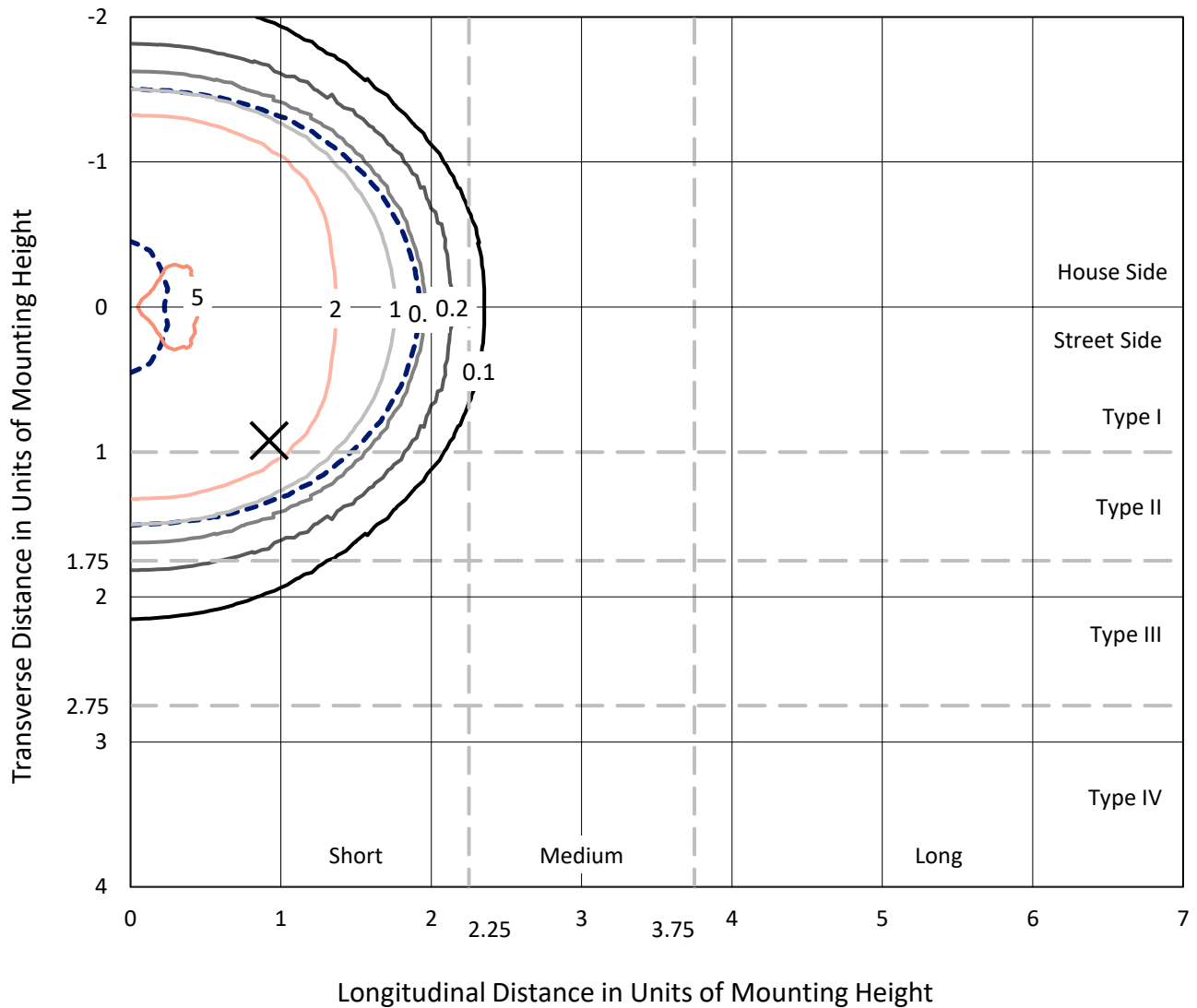
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

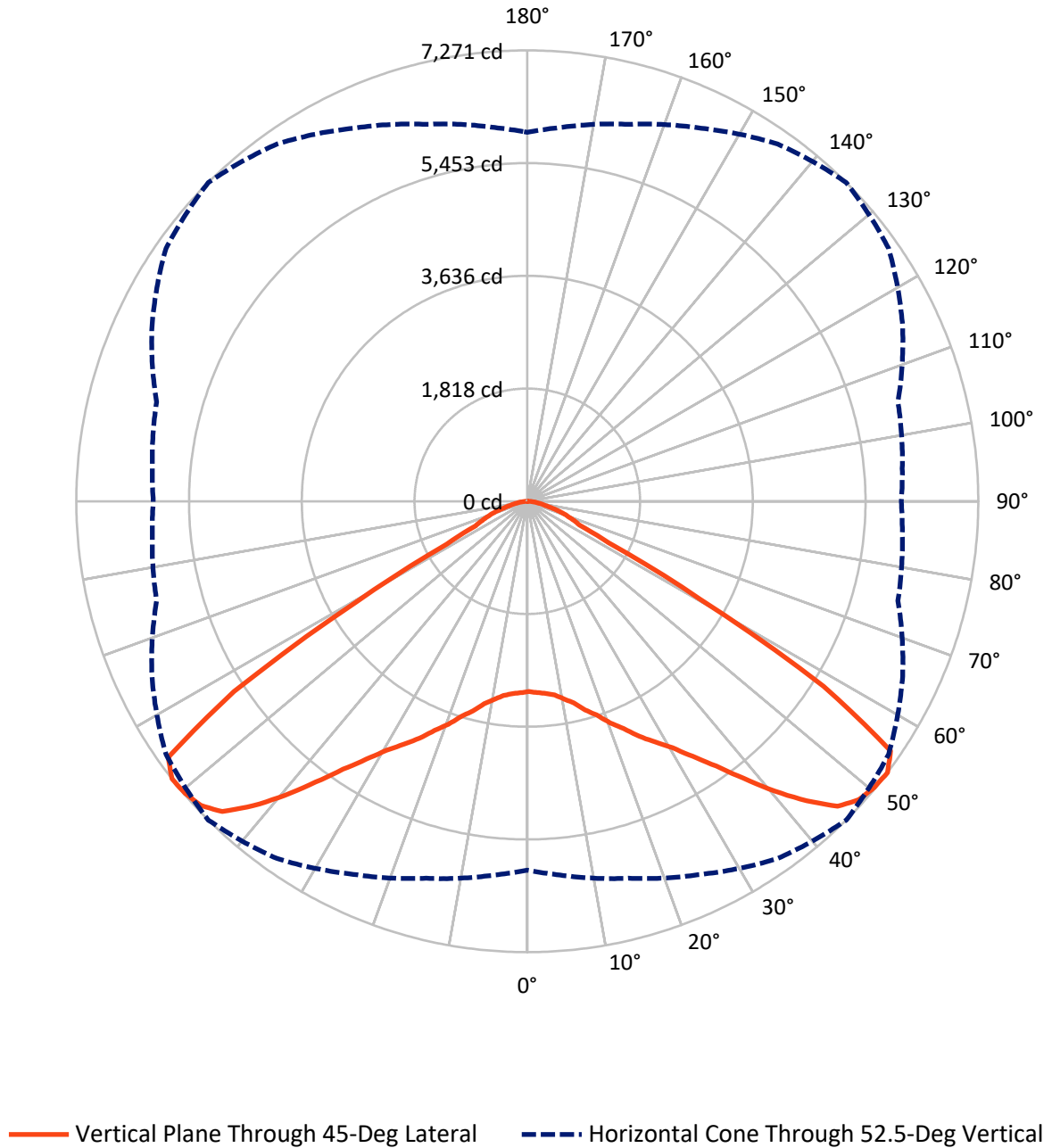
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9178.0	0.0	9178.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9178.0	0.0	9178.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18356.0	0.0	18356.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	301.5	1.6
10°-20°	990.6	5.4
20°-30°	1886.0	10.3
30°-40°	3238.3	17.6
40°-50°	4977.4	27.1
50°-60°	5054.4	27.5
60°-70°	1408.6	7.7
70°-80°	415.5	2.3
80°-90°	83.7	0.5
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°	18356.0	100.0
0°-180°	18356.0	100.0

**Coefficient of Utilization**



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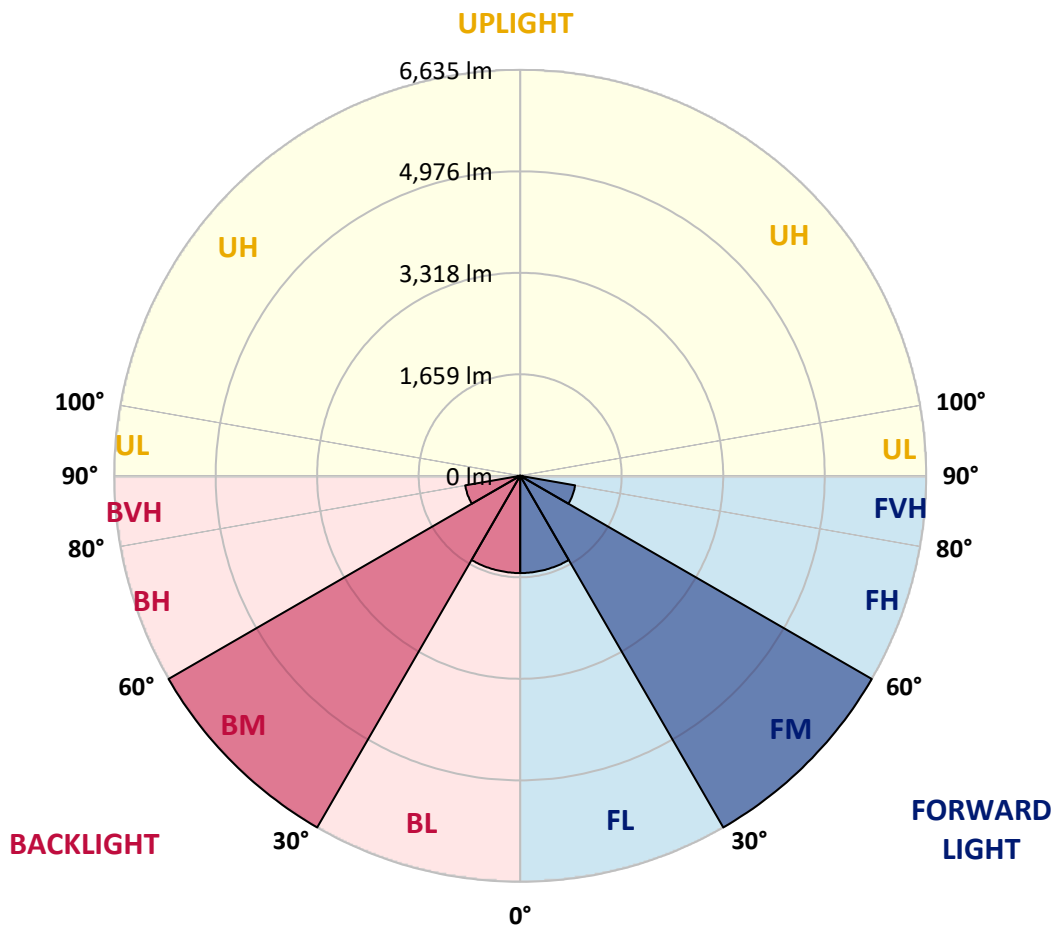
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1589.0	8.7			
FM (30°-60°)	6635.1	36.1			
FH (60°-80°)	912.1	5.0			G1/1800
FVH (80°-90°)	41.9	0.2			G1/100
BL (0°-30°)	1589.0	8.7	B3/2500		
BM (30°-60°)	6635.1	36.1	B4/8500		
BH (60°-80°)	912.1	5.0	B2/1000		G1/1800
BVH (80°-90°)	41.9	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-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4	3068.4
2.5°	3075.3	3043.4	3054.8	3061.6	3091.2	3088.9	3082.1	3091.2	3100.3	3102.6	3098.1
5°	3073.0	3050.2	3059.3	3066.2	3095.8	3111.7	3107.2	3145.9	3173.2	3166.4	3200.6
7.5°	3054.8	3068.4	3057.1	3091.2	3116.3	3155.0	3196.0	3232.5	3266.6	3305.4	3312.2
10°	3095.8	3095.8	3116.3	3143.6	3209.7	3239.3	3298.5	3350.9	3417.0	3462.5	3444.3
12.5°	3139.1	3145.9	3145.9	3216.5	3271.2	3337.2	3391.9	3462.5	3555.9	3610.6	3637.9
15°	3182.3	3186.9	3209.7	3305.4	3387.4	3492.2	3542.3	3606.1	3658.4	3761.0	3763.2
17.5°	3221.1	3246.1	3314.5	3421.5	3524.0	3624.3	3704.0	3770.1	3815.6	3856.6	3847.5
20°	3366.9	3385.1	3455.7	3562.8	3715.4	3813.3	3840.7	3852.1	3881.7	3963.7	3938.6
22.5°	3508.1	3514.9	3581.0	3745.0	3852.1	3981.9	4011.5	4004.7	4016.1	4036.6	4073.0
25°	3653.9	3665.3	3756.4	3895.4	4045.7	4200.6	4225.7	4173.3	4157.3	4180.1	4182.4
27.5°	3840.7	3843.0	3959.1	4079.9	4250.7	4396.5	4435.2	4394.2	4319.1	4337.3	4366.9
30°	4077.6	4061.6	4177.8	4351.0	4530.9	4612.9	4679.0	4658.5	4576.5	4560.5	4535.5
32.5°	4351.0	4355.5	4460.3	4649.4	4767.8	4904.5	4975.1	4941.0	4888.6	4861.2	4877.2
35°	4735.9	4756.4	4827.1	4984.2	5175.6	5243.9	5355.5	5282.6	5146.0	5180.1	5209.8
37.5°	5052.6	5111.8	5243.9	5430.7	5544.6	5669.9	5710.9	5613.0	5512.7	5471.7	5569.7
40°	5537.8	5519.6	5665.4	5852.1	6020.7	6146.0	6093.6	5995.7	5747.4	5749.6	5777.0
42.5°	5954.7	5963.8	6075.4	6298.6	6528.7	6606.2	6439.9	6200.7	5925.0	5895.4	5954.7
45°	6305.5	6341.9	6405.7	6704.1	6929.6	7013.9	6706.4	6423.9	6054.9	5931.9	6029.8
47.5°	6430.8	6490.0	6628.9	6902.3	7125.5	7193.9	6947.9	6542.4	6175.6	5975.2	6027.6
50°	6449.0	6428.5	6656.3	6906.9	7102.8	7250.8	7034.4	6628.9	6146.0	6041.2	6025.3
52.5°	5950.1	6050.3	6294.1	6638.1	7034.4	7271.3	7111.9	6676.8	6187.0	6068.6	6029.8
55°	4815.7	4697.2	5141.4	5720.0	6449.0	7107.3	7084.5	6701.8	6212.1	6114.1	6061.7
57.5°	2688.0	2722.2	2972.8	3601.5	4542.3	5635.7	6298.6	6437.6	6200.7	6143.7	6171.1
60°	1243.8	1255.2	1362.2	1656.1	2239.3	3196.0	4068.5	4954.6	5362.4	5444.4	5444.4
62.5°	927.1	922.6	949.9	1002.3	1125.3	1469.3	1961.3	2665.2	3225.6	3617.4	3720.0
65°	838.3	836.0	849.7	867.9	877.0	924.9	1034.2	1250.6	1432.9	1537.6	1519.4
67.5°	733.5	731.2	735.8	747.2	763.1	788.2	815.5	861.1	924.9	920.3	908.9
70°	592.3	592.3	599.1	608.2	626.4	656.1	688.0	719.8	774.5	785.9	783.6
72.5°	437.4	430.5	444.2	462.4	480.7	517.1	551.3	580.9	619.6	631.0	626.4
75°	277.9	282.5	291.6	312.1	344.0	369.0	405.5	430.5	455.6	464.7	467.0
77.5°	154.9	159.5	175.4	200.5	232.4	259.7	291.6	312.1	328.0	330.3	332.6
80°	93.4	95.7	111.6	134.4	161.7	191.4	216.4	236.9	250.6	243.7	241.5
82.5°	56.9	59.2	72.9	93.4	116.2	139.0	166.3	184.5	198.2	189.1	180.0
85°	29.6	31.9	43.3	56.9	75.2	86.6	86.6	77.5	75.2	70.6	68.3
87.5°	9.1	9.1	11.4	13.7	11.4	13.7	15.9	18.2	18.2	20.5	18.2
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)