

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: P530172

Luminaire Tested: **GALN-SA5B-827-U-5MQ-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530172  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)  
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-5MQ-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18489 lumens  
Efficiency: N/A  
Efficacy: 90.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G1

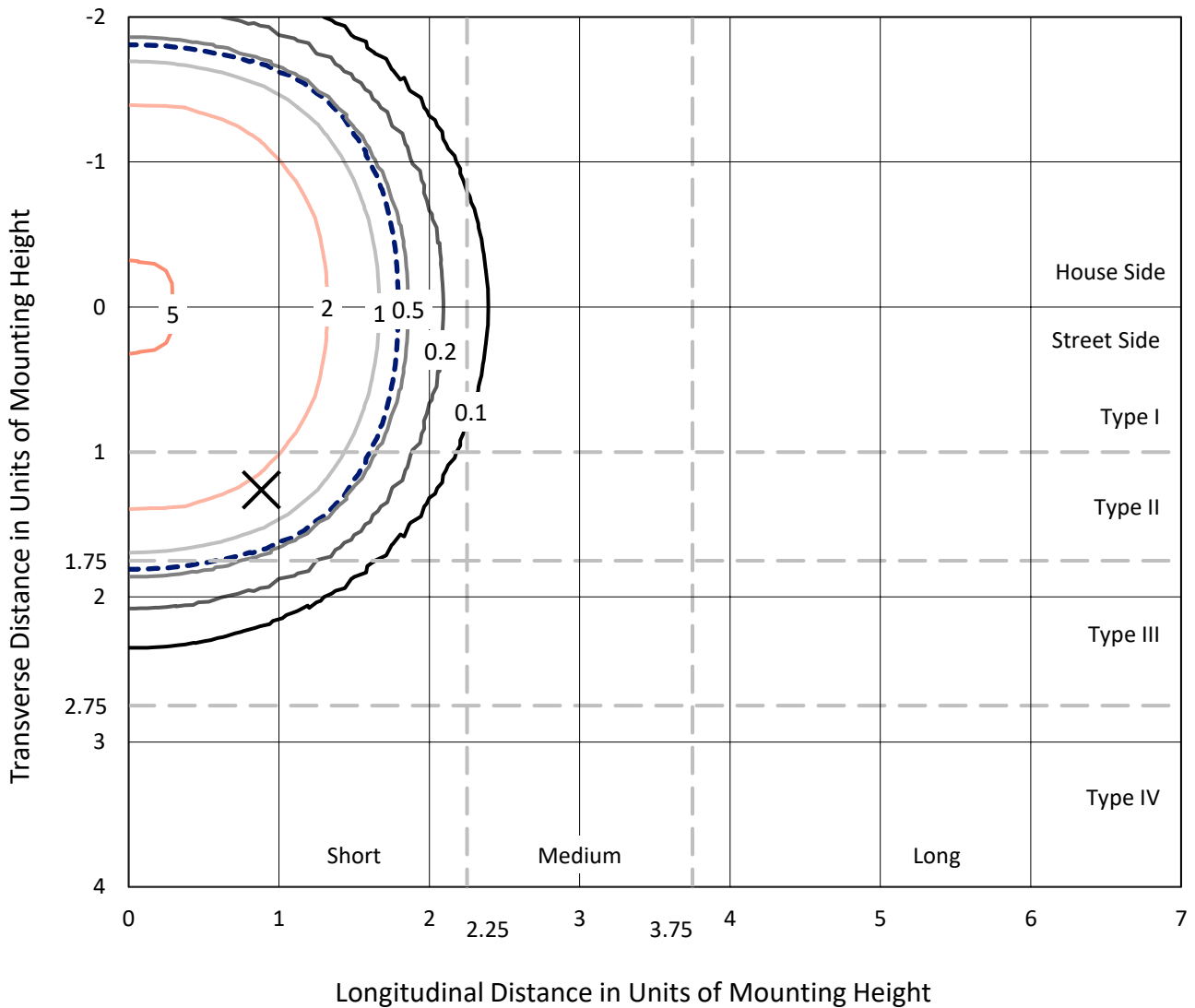
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

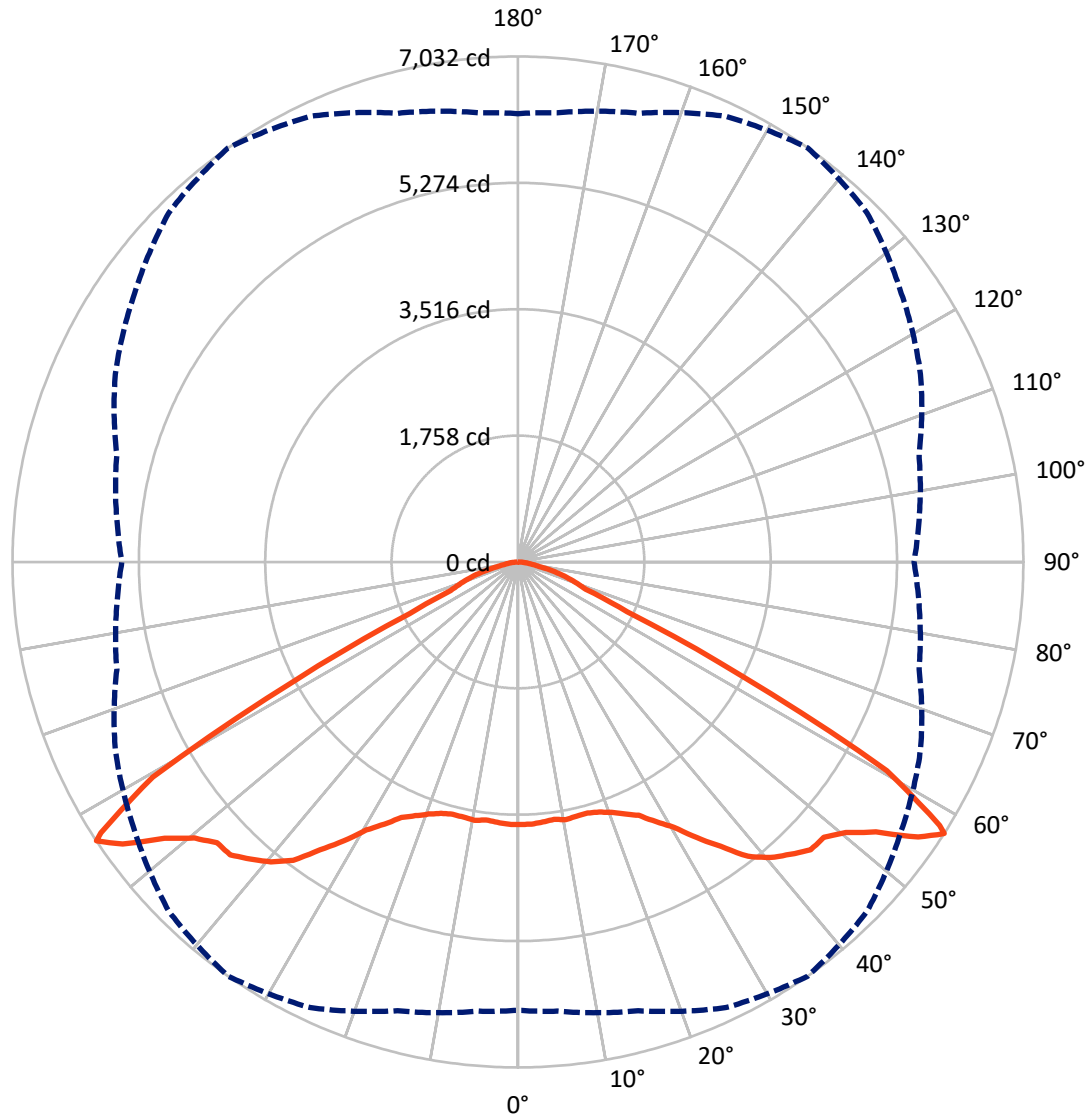
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
 Type V - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9244.5	0.0	9244.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	9244.5	0.0	9244.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	18489.0	0.0	18489.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	346.2	1.9
10°-20°	1025.3	5.5
20°-30°	1790.6	9.7
30°-40°	2933.9	15.9
40°-50°	4301.9	23.3
50°-60°	5418.5	29.3
60°-70°	2037.9	11.0
70°-80°	541.9	2.9
80°-90°	92.9	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°	18489.0	100.0
0°-180°	18489.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P530172

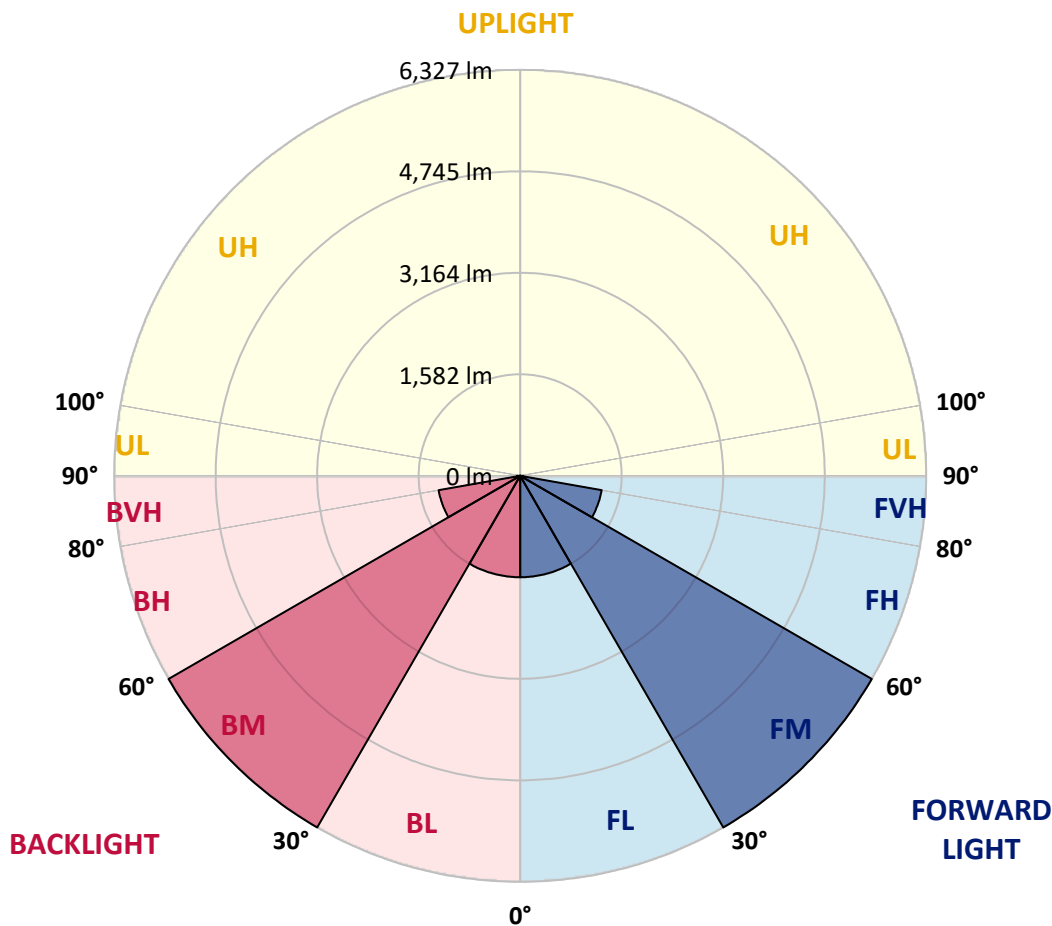
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1581.0	8.6			
FM (30°-60°)	6327.2	34.2			
FH (60°-80°)	1289.9	7.0			G1/1800
FVH (80°-90°)	46.4	0.3			G1/100
BL (0°-30°)	1581.0	8.6	B3/2500		
BM (30°-60°)	6327.2	34.2	B4/8500		
BH (60°-80°)	1289.9	7.0	B3/2500		G1/1800
BVH (80°-90°)	46.4	0.3			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°	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4	3651.4
2.5°	3633.2	3669.7	3653.7	3644.6	3651.4	3640.1	3621.8	3642.3	3637.8	3619.6	3612.7
5°	3624.1	3651.4	3633.2	3651.4	3633.2	3665.1	3656.0	3621.8	3662.8	3624.1	3637.8
7.5°	3617.3	3626.4	3630.9	3621.8	3615.0	3653.7	3633.2	3617.3	3594.5	3587.7	3599.1
10°	3601.3	3624.1	3589.9	3635.5	3644.6	3617.3	3617.3	3587.7	3569.4	3558.0	3596.8
12.5°	3642.3	3603.6	3599.1	3621.8	3628.7	3640.1	3608.2	3592.2	3558.0	3562.6	3555.8
15°	3594.5	3610.4	3612.7	3617.3	3624.1	3651.4	3621.8	3587.7	3574.0	3526.2	3530.7
17.5°	3612.7	3596.8	3612.7	3665.1	3656.0	3676.5	3644.6	3592.2	3560.3	3533.0	3569.4
20°	3644.6	3637.8	3644.6	3708.4	3719.8	3738.0	3710.7	3662.8	3601.3	3569.4	3587.7
22.5°	3678.8	3674.2	3678.8	3740.3	3806.3	3829.1	3801.8	3690.2	3658.3	3599.1	3578.5
25°	3740.3	3744.8	3792.7	3861.0	3904.3	3947.6	3897.5	3817.7	3715.2	3678.8	3635.5
27.5°	3877.0	3888.3	3915.7	4015.9	4091.1	4129.8	4059.2	3949.8	3886.1	3810.9	3799.5
30°	4045.5	4045.5	4093.3	4179.9	4282.4	4341.6	4255.1	4125.2	4047.8	4006.8	3981.7
32.5°	4268.7	4243.7	4261.9	4414.5	4574.0	4624.1	4507.9	4348.5	4225.5	4170.8	4152.6
35°	4460.1	4476.0	4517.0	4681.0	4858.7	4974.9	4792.7	4585.4	4460.1	4410.0	4400.9
37.5°	4708.4	4735.7	4756.2	4981.7	5195.8	5239.1	5063.7	4897.4	4744.8	4703.8	4681.0
40°	5059.2	5040.9	5047.8	5214.1	5407.7	5435.0	5261.9	5143.5	5018.2	4993.1	4993.1
42.5°	5348.5	5328.0	5350.7	5412.2	5560.3	5539.8	5444.1	5357.6	5305.2	5277.8	5305.2
45°	5523.9	5519.3	5560.3	5605.9	5710.6	5642.3	5567.1	5580.8	5530.7	5485.1	5482.9
47.5°	5715.2	5685.6	5735.7	5804.0	5724.3	5692.4	5687.9	5717.5	5701.5	5621.8	5596.8
50°	5808.6	5797.2	5876.9	5956.7	5913.4	5840.5	5856.4	5904.3	5699.3	5592.2	5530.7
52.5°	6059.2	6061.4	6214.1	6257.3	6239.1	6132.1	6166.2	6036.4	5794.9	5644.6	5651.4
55°	6453.2	6437.3	6608.1	6735.7	6756.2	6619.5	6455.5	6273.3	5970.3	5817.7	5772.1
57°	6236.8	6273.3	6462.3	6840.5	7031.8	6870.1	6512.5	6179.9	5776.7	5592.2	5510.2
57.5°	5947.5	6006.8	6334.8	6715.2	6915.6	6902.0	6441.8	6006.8	5646.9	5359.9	5366.7
60°	4357.6	4369.0	4665.1	5268.7	5895.2	5908.8	5348.5	4772.2	4371.3	4059.2	4102.5
62.5°	2298.4	2350.8	2469.2	2954.4	3496.5	3628.7	3289.3	2993.1	2646.9	2410.0	2432.8
65°	1216.4	1209.6	1266.5	1403.2	1669.7	1738.0	1692.5	1457.8	1337.1	1298.4	1300.7
67.5°	988.6	1000.0	993.2	1000.0	1018.2	1047.8	1041.0	1050.1	1056.9	1068.3	1066.0
70°	838.3	838.3	842.8	845.1	845.1	858.8	874.7	904.3	906.6	918.0	922.5
72.5°	660.6	656.0	662.9	678.8	681.1	692.5	715.3	733.5	740.3	740.3	726.6
75°	448.7	453.3	462.4	476.1	489.7	510.2	528.5	539.9	544.4	537.6	530.7
77.5°	252.8	257.4	264.2	284.7	300.7	318.9	339.4	350.8	362.2	364.5	350.8
80°	150.3	150.3	161.7	177.7	195.9	214.1	232.3	246.0	250.6	250.6	243.7
82.5°	91.1	93.4	102.5	118.4	134.4	145.8	161.7	173.1	182.2	180.0	175.4
85°	47.8	47.8	56.9	70.6	82.0	93.4	93.4	86.6	82.0	70.6	66.1
87.5°	15.9	13.7	18.2	18.2	15.9	18.2	18.2	20.5	20.5	20.5	20.5
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)