

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: P456140

Luminaire Tested: **GALN-SA7B-827-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456140  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-827-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30060 lumens  
Efficiency: N/A  
Efficacy: 105.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B5 - U0 - G5

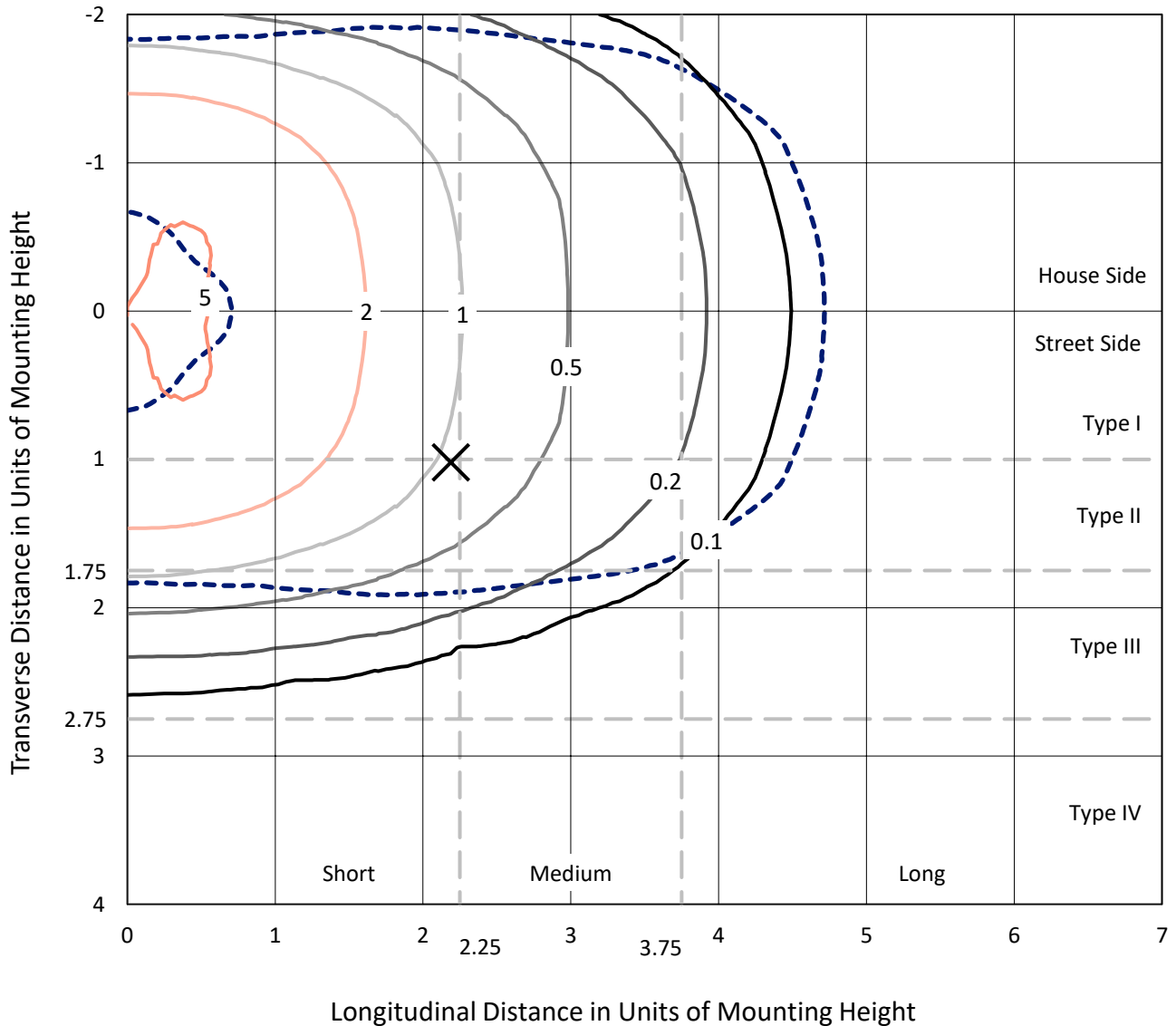
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

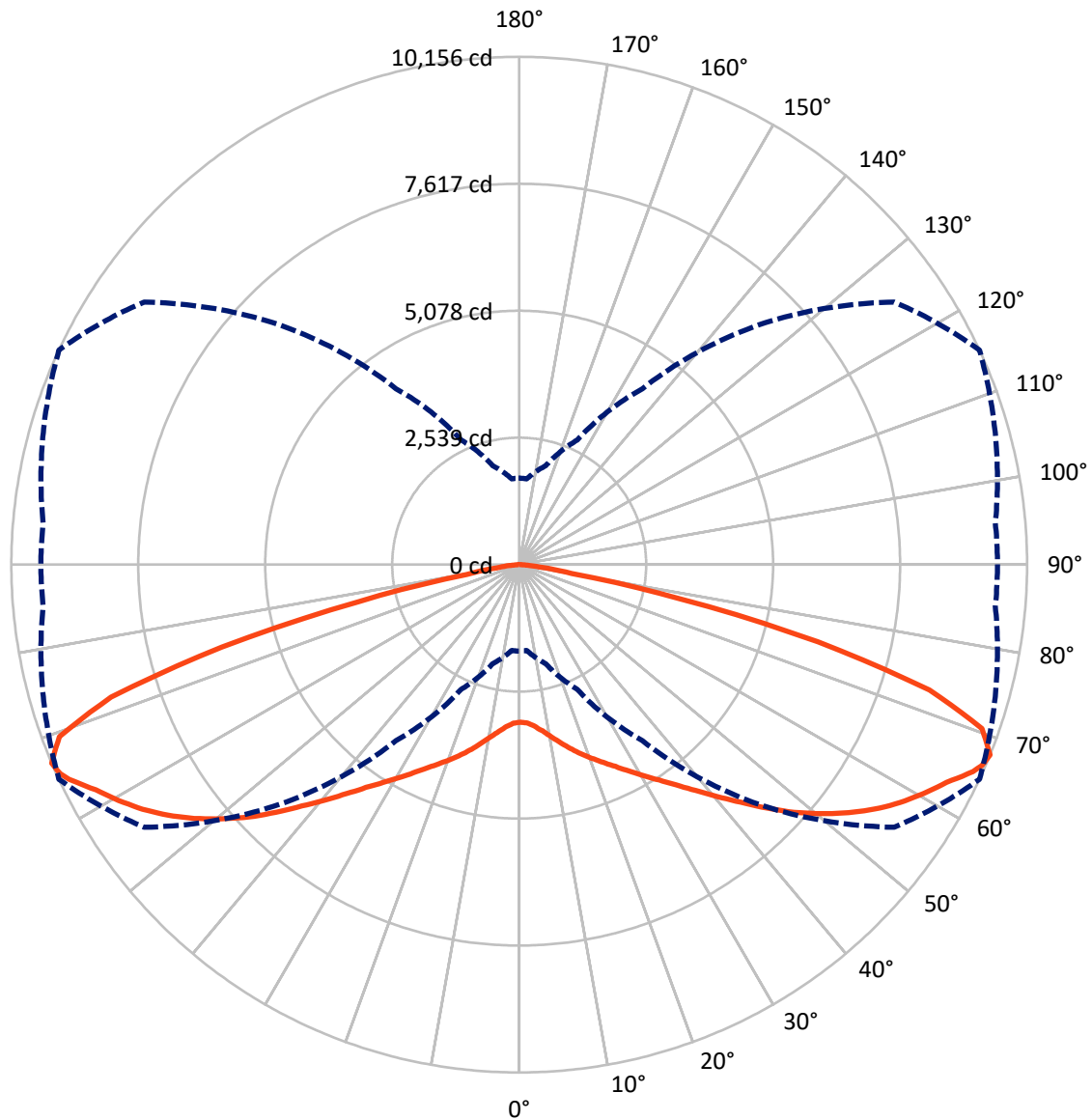
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15030.0	0.0	15030.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15030.0	0.0	15030.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30060.0	0.0	30060.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	310.5	1.0
10°-20°	1039.3	3.5
20°-30°	2033.0	6.8
30°-40°	3457.8	11.5
40°-50°	5472.7	18.2
50°-60°	7256.7	24.1
60°-70°	6845.3	22.8
70°-80°	3384.0	11.3
80°-90°	260.8	0.9
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°	30060.0	100.0
0°-180°	30060.0	100.0

**Coefficient of Utilization**



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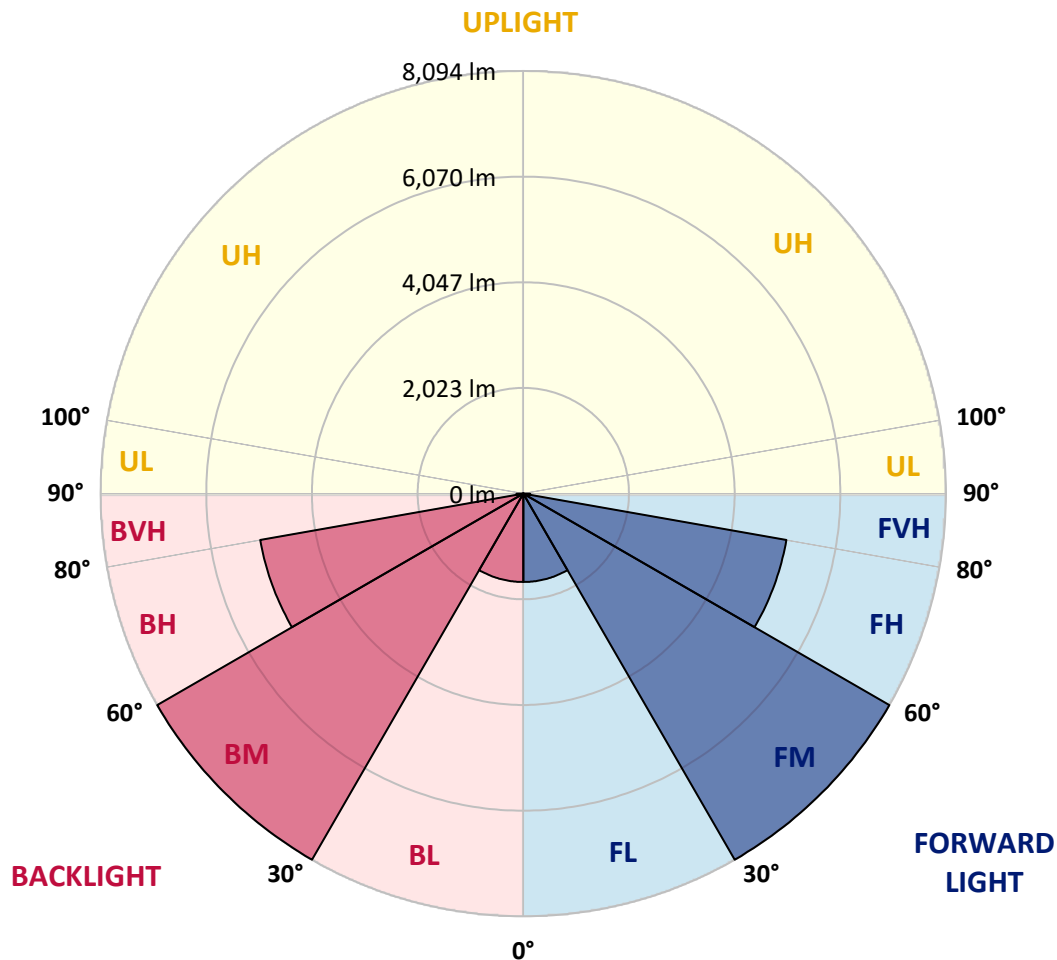
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1691.4	5.6			
FM	(30°-60°)	8093.6	26.9			
FH	(60°-80°)	5114.6	17.0			G3/7500
FVH	(80°-90°)	130.4	0.4			G2/225
BL	(0°-30°)	1691.4	5.6	B3/2500		
BM	(30°-60°)	8093.6	26.9	B4/8500		
BH	(60°-80°)	5114.6	17.0	B5		G5
BVH	(80°-90°)	130.4	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G5**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3148.5	3148.5	3148.5	3148.5	3148.5	3148.5	3148.5	3148.5	3148.5	3148.5	3148.5
2.5°	3132.4	3135.6	3138.9	3143.7	3150.1	3159.8	3166.2	3171.1	3184.0	3185.6	3184.0
5°	3121.1	3124.4	3132.4	3146.9	3167.8	3196.8	3219.4	3246.8	3267.7	3282.2	3279.0
7.5°	3119.5	3126.0	3138.9	3169.5	3209.7	3259.6	3311.2	3357.9	3398.1	3430.4	3425.5
10°	3145.3	3153.4	3174.3	3219.4	3282.2	3354.7	3427.1	3496.4	3554.4	3596.2	3610.7
12.5°	3188.8	3195.2	3233.9	3301.5	3391.7	3481.9	3564.0	3649.4	3729.9	3800.8	3800.8
15°	3264.5	3275.7	3324.1	3422.3	3533.4	3638.1	3721.9	3812.0	3899.0	3979.5	4003.7
17.5°	3369.2	3385.3	3457.7	3583.4	3725.1	3821.7	3900.6	3974.7	4050.4	4127.7	4139.0
20°	3512.5	3528.6	3625.2	3776.6	3944.1	4060.1	4113.2	4130.9	4168.0	4242.0	4251.7
22.5°	3707.4	3723.5	3831.4	4002.1	4188.9	4314.5	4337.1	4295.2	4285.5	4343.5	4349.9
25°	3928.0	3942.5	4066.5	4250.1	4443.4	4580.3	4573.8	4470.7	4412.8	4448.2	4457.9
27.5°	4176.0	4197.0	4322.6	4512.6	4722.0	4842.8	4823.4	4673.7	4549.7	4543.2	4546.4
30°	4493.3	4515.8	4635.0	4817.0	5023.1	5134.3	5094.0	4892.7	4701.0	4636.6	4636.6
32.5°	4828.3	4884.6	5005.4	5195.5	5356.5	5437.0	5375.8	5134.3	4879.8	4789.6	4784.8
35°	5264.7	5295.3	5414.5	5599.7	5720.5	5783.3	5665.7	5406.4	5113.3	5007.0	4992.5
37.5°	5691.5	5717.3	5855.8	6032.9	6179.5	6176.3	6016.8	5730.1	5403.2	5284.0	5274.4
40°	6127.9	6155.3	6313.1	6475.8	6622.4	6609.5	6416.2	6095.7	5747.9	5614.2	5640.0
42.5°	6506.4	6537.0	6715.8	6947.7	7079.7	7076.5	6852.7	6491.9	6129.5	6010.4	6032.9
45°	6851.1	6878.4	7086.2	7351.9	7545.2	7569.3	7324.5	6942.8	6570.8	6417.8	6424.3
47.5°	7094.2	7145.8	7363.2	7667.6	7930.1	8015.4	7775.5	7401.8	6973.4	6814.0	6823.7
50°	7279.4	7311.7	7548.4	7894.7	8226.4	8403.6	8210.3	7827.0	7376.1	7207.0	7229.5
52.5°	7302.0	7340.6	7598.3	7997.7	8422.9	8691.8	8596.8	8242.5	7786.7	7612.8	7661.1
55°	7118.4	7140.9	7448.5	7933.3	8500.2	8906.0	8930.2	8629.0	8178.1	8046.0	8078.2
57.5°	6595.0	6653.0	7042.7	7632.1	8393.9	9020.4	9179.8	8980.1	8574.3	8443.8	8495.4
60°	5736.6	5794.6	6185.9	6933.2	7992.9	8967.2	9386.0	9291.0	8933.4	8828.7	8856.1
62.5°	4494.9	4490.1	4974.8	5891.2	7195.7	8706.3	9539.0	9590.5	9287.7	9155.7	9197.5
65°	2913.4	2927.9	3396.5	4383.8	5992.7	8042.8	9572.8	9972.2	9635.6	9435.9	9466.5
66°	2343.3	2386.8	2784.5	3694.5	5379.1	7608.0	9471.3	10084.9	9741.9	9500.3	9514.8
67.5°	1729.7	1721.6	2048.6	2750.7	4295.2	6781.8	9154.1	10155.8	9862.7	9558.3	9564.7
70°	987.2	985.6	1101.6	1510.6	2525.3	4775.1	7715.9	9816.0	10107.5	9767.7	9749.9
72.5°	721.5	716.7	732.8	834.2	1232.0	2410.9	5322.7	8579.1	9981.9	9733.8	9683.9
75°	605.5	602.3	599.1	612.0	690.9	1091.9	2824.8	6171.4	8661.2	9136.3	9084.8
77.5°	494.4	494.4	496.0	492.8	496.0	574.9	1170.8	3308.0	5274.4	5888.0	6031.3
80°	386.5	384.9	412.3	401.0	375.2	368.8	518.6	1064.5	1750.6	1740.9	1436.6
82.5°	285.1	265.7	314.0	306.0	277.0	235.1	302.8	454.2	584.6	380.1	281.8
85°	180.4	178.8	222.2	202.9	169.1	111.1	144.9	194.9	241.6	146.6	119.2
87.5°	32.2	30.6	70.9	51.5	51.5	32.2	40.3	53.1	78.9	54.8	40.3
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)