

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: P456136

Luminaire Tested: **GALN-SA7B-827-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456136  
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-SA7B-827-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 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: 30406 lumens  
Efficiency: N/A  
Efficacy: 106.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G2

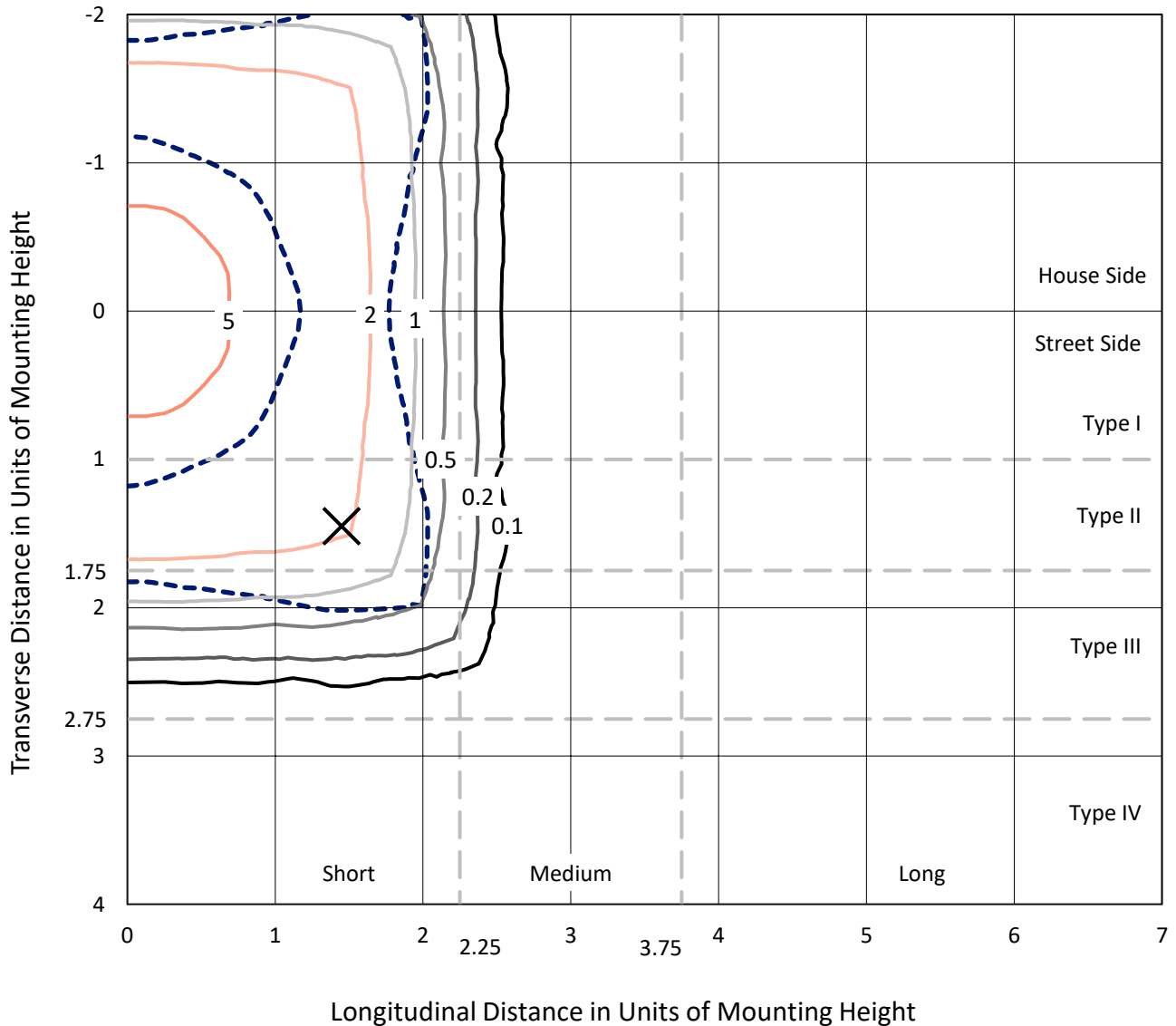
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

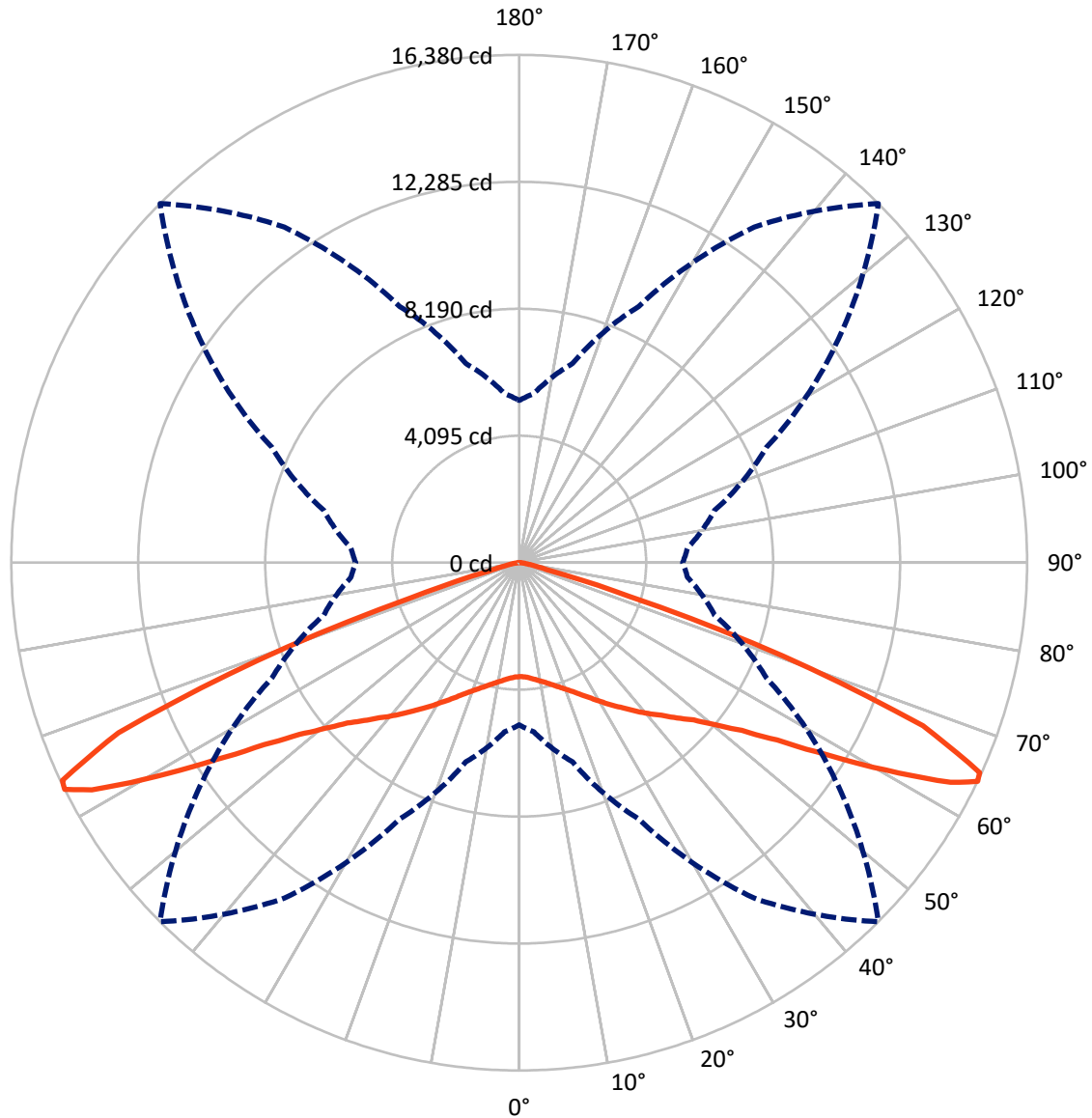
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	15203.0	0.0	15203.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15203.0	0.0	15203.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30406.0	0.0	30406.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	361.1	1.2
10°-20°	1164.6	3.8
20°-30°	2200.8	7.2
30°-40°	3644.8	12.0
40°-50°	5690.1	18.7
50°-60°	8796.7	28.9
60°-70°	7585.3	24.9
70°-80°	859.6	2.8
80°-90°	103.0	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°	30406.0	100.0
0°-180°	30406.0	100.0

**Coefficient of Utilization**



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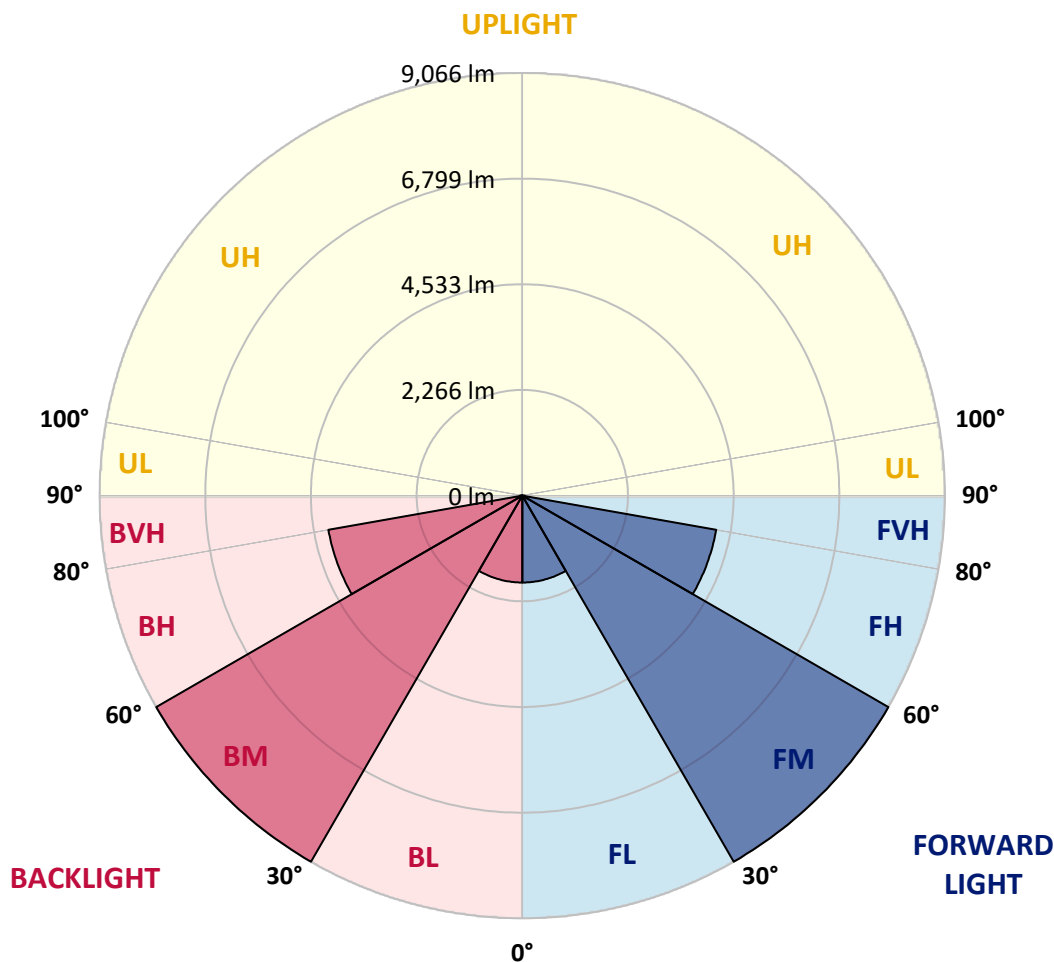
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1863.2	6.1			
FM	(30°-60°)	9065.8	29.8			
FH	(60°-80°)	4222.5	13.9			G2/5000
FVH	(80°-90°)	51.5	0.2			G1/100
BL	(0°-30°)	1863.2	6.1	B3/2500		
BM	(30°-60°)	9065.8	29.8	B5		
BH	(60°-80°)	4222.5	13.9	B4/5000		G2/5000
BVH	(80°-90°)	51.5	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°	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1	3675.1
2.5°	3689.6	3697.6	3691.2	3689.6	3688.0	3688.0	3688.0	3689.6	3696.0	3700.8	3697.6
5°	3736.3	3742.7	3739.5	3737.9	3736.3	3737.9	3734.7	3733.1	3737.9	3737.9	3736.3
7.5°	3794.3	3802.3	3799.1	3802.3	3803.9	3805.5	3797.5	3791.0	3789.4	3794.3	3791.0
10°	3873.2	3879.6	3881.2	3882.8	3886.0	3884.4	3874.8	3863.5	3861.9	3860.3	3858.7
12.5°	3961.7	3966.6	3968.2	3974.6	3979.5	3981.1	3969.8	3960.1	3944.0	3947.2	3940.8
15°	4061.6	4071.3	4069.6	4079.3	4092.2	4095.4	4084.1	4068.0	4053.5	4045.5	4040.7
17.5°	4184.0	4190.4	4187.2	4196.9	4213.0	4221.0	4211.4	4190.4	4175.9	4158.2	4148.6
20°	4328.9	4340.2	4343.4	4343.4	4357.9	4366.0	4351.5	4345.0	4322.5	4309.6	4301.5
22.5°	4493.2	4498.0	4507.7	4517.3	4531.8	4528.6	4523.8	4514.1	4493.2	4481.9	4469.0
25°	4678.4	4683.2	4707.4	4728.3	4733.2	4729.9	4723.5	4718.7	4699.3	4673.6	4663.9
27.5°	4894.2	4903.9	4936.1	4955.4	4955.4	4957.0	4944.1	4960.2	4918.4	4887.8	4884.5
30°	5164.8	5171.2	5198.6	5217.9	5208.2	5200.2	5197.0	5213.1	5168.0	5113.2	5100.3
32.5°	5432.1	5454.6	5478.8	5520.7	5486.8	5472.4	5469.1	5480.4	5428.9	5367.7	5350.0
35°	5718.8	5734.9	5780.0	5815.4	5784.8	5751.0	5765.5	5800.9	5739.7	5657.6	5654.3
37.5°	6036.0	6050.5	6108.5	6145.5	6123.0	6065.0	6089.2	6131.0	6069.8	5968.4	5947.4
40°	6366.2	6396.8	6469.2	6507.9	6470.8	6393.5	6438.6	6483.7	6429.0	6311.4	6264.7
42.5°	6736.6	6784.9	6889.6	6908.9	6838.0	6733.3	6812.3	6884.7	6846.1	6710.8	6693.1
45°	7169.8	7198.8	7327.6	7369.5	7271.2	7140.8	7239.0	7371.1	7342.1	7185.9	7152.1
47.5°	7654.5	7681.9	7815.6	7878.4	7754.4	7578.8	7756.0	7928.3	7910.6	7743.1	7727.0
50°	8227.9	8234.3	8419.5	8490.4	8366.4	8215.0	8372.8	8587.0	8516.1	8301.9	8298.7
52.5°	8855.9	8864.0	9097.5	9234.4	9165.1	8994.4	9181.2	9311.7	9131.3	8851.1	8830.2
55°	9400.3	9440.5	9759.4	10123.4	10218.4	10094.4	10150.7	10089.6	9645.1	9252.1	9190.9
57.5°	9622.5	9701.4	10186.2	10865.8	11484.2	11667.8	11233.0	10650.0	9849.6	9294.0	9234.4
60°	9079.8	9165.1	9917.2	11207.2	12785.5	13582.6	12360.3	10745.0	9384.2	8603.1	8509.7
62.5°	7271.2	7295.4	8401.8	10403.6	13544.0	15608.6	12835.4	9934.9	8029.8	6968.5	6931.4
64°	5232.4	5480.4	6652.8	9121.7	13212.2	16380.0	12561.6	8799.6	6522.4	5448.2	5274.3
65°	3913.4	3981.1	5362.8	7789.8	12627.6	16322.0	12030.2	7714.1	5401.5	4169.5	3976.2
67.5°	1478.4	1486.5	1979.3	3882.8	8989.6	14043.2	9181.2	4196.9	2275.6	1645.9	1586.3
70°	613.6	624.9	726.3	1306.1	3863.5	9017.0	4427.2	1513.8	832.6	674.8	665.1
72.5°	449.3	455.8	486.4	579.8	1188.5	3702.5	1455.9	642.6	488.0	436.4	431.6
75°	352.7	355.9	378.5	426.8	554.0	1025.9	605.5	441.3	372.0	335.0	331.8
77.5°	268.9	277.0	293.1	325.3	372.0	486.4	401.0	330.1	286.7	256.1	251.2
80°	185.2	194.9	225.5	238.3	249.6	315.7	273.8	249.6	223.9	186.8	175.5
82.5°	114.3	120.8	151.4	162.7	157.8	177.2	175.5	178.8	159.4	116.0	107.9
85°	59.6	62.8	82.1	85.4	78.9	72.5	90.2	104.7	98.2	66.0	64.4
87.5°	12.9	14.5	17.7	16.1	17.7	17.7	22.5	33.8	35.4	22.5	20.9
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)