

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: P456135

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

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456135  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)  
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-5MQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 30557 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

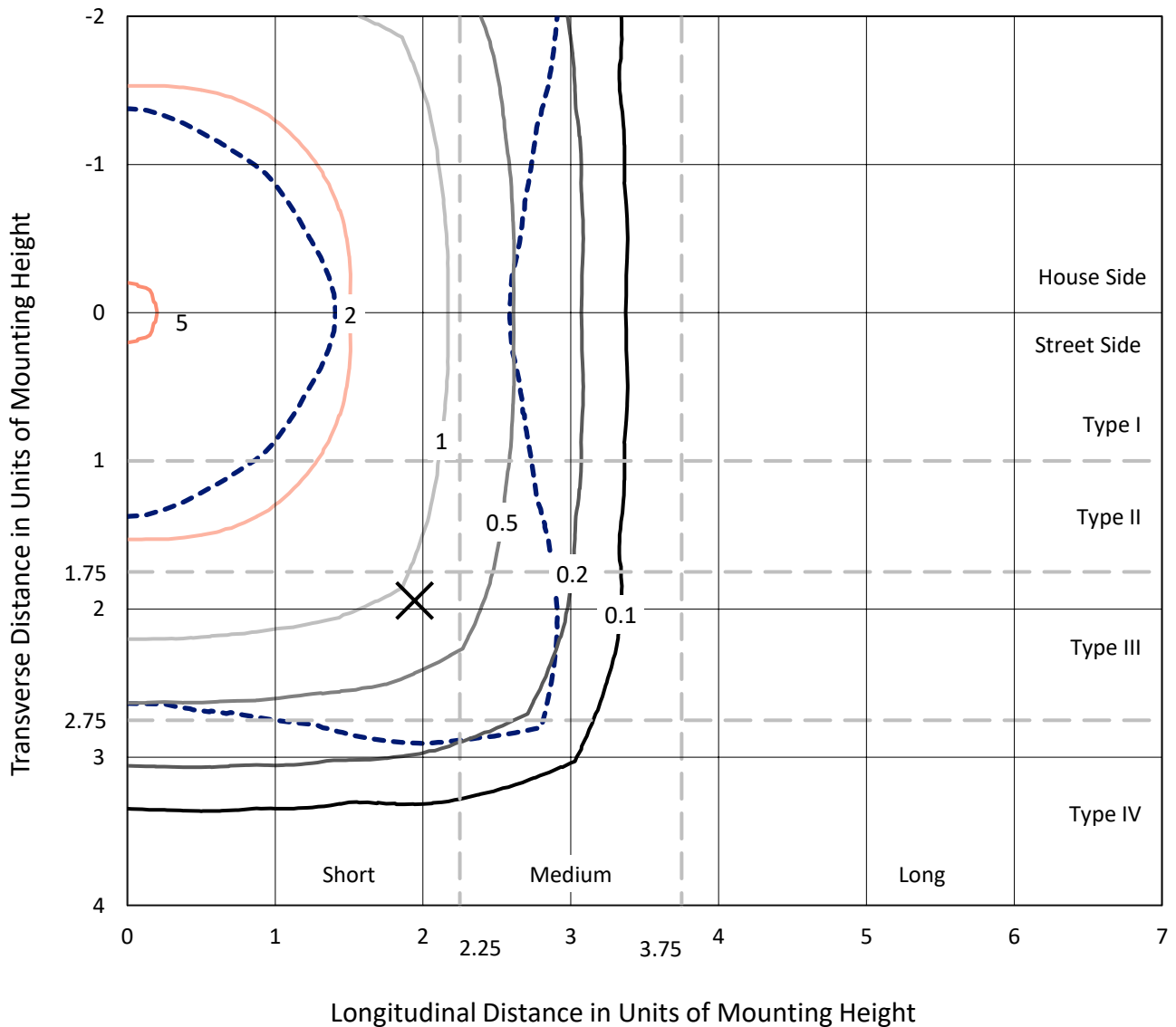
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

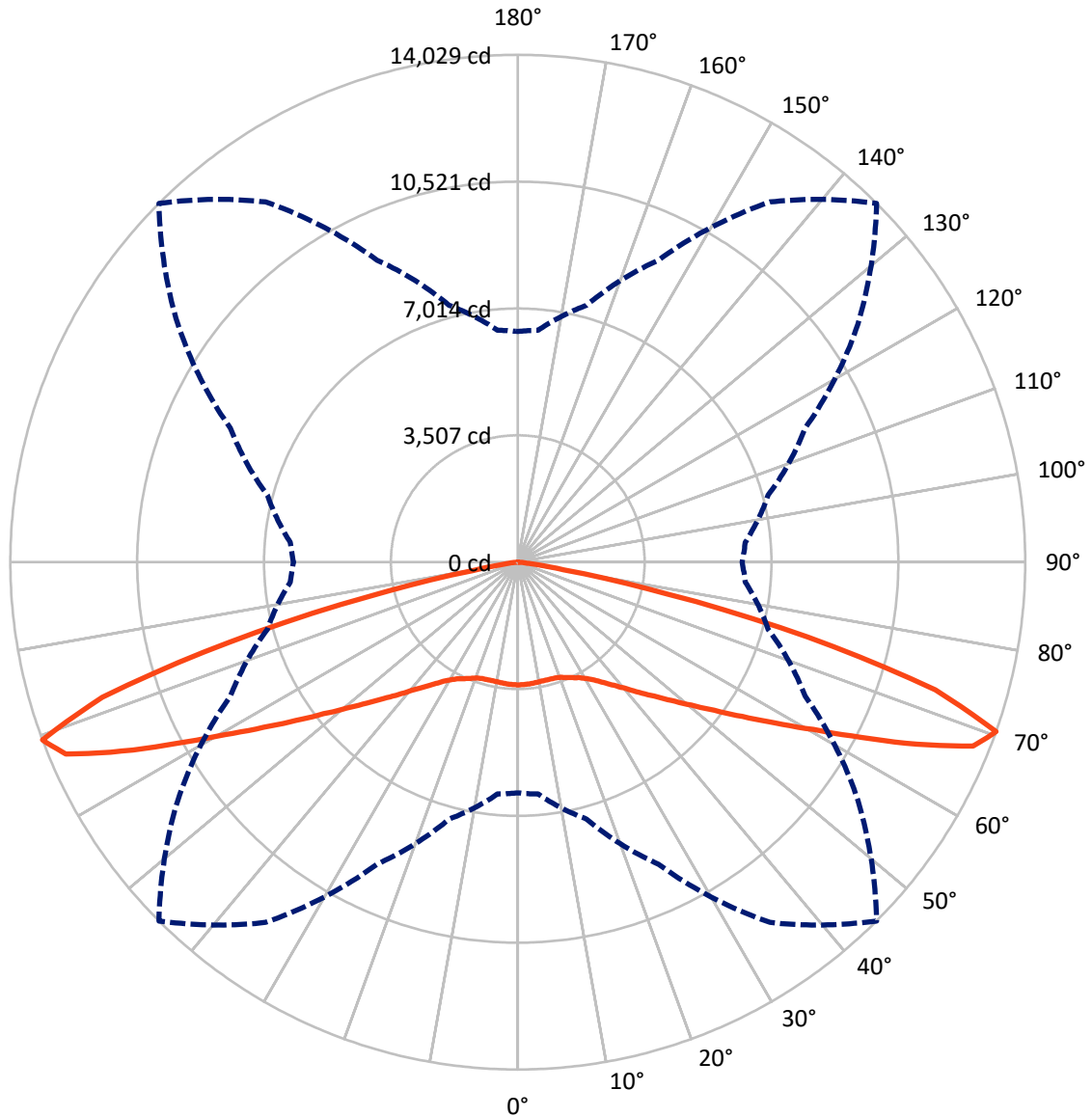
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15278.5	0.0	15278.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15278.5	0.0	15278.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	30557.0	0.0	30557.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	321.8	1.1
10°-20°	944.2	3.1
20°-30°	1614.9	5.3
30°-40°	2563.2	8.4
40°-50°	4135.1	13.5
50°-60°	6727.9	22.0
60°-70°	9753.1	31.9
70°-80°	4326.1	14.2
80°-90°	170.6	0.6
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°	30557.0	100.0
0°-180°	30557.0	100.0



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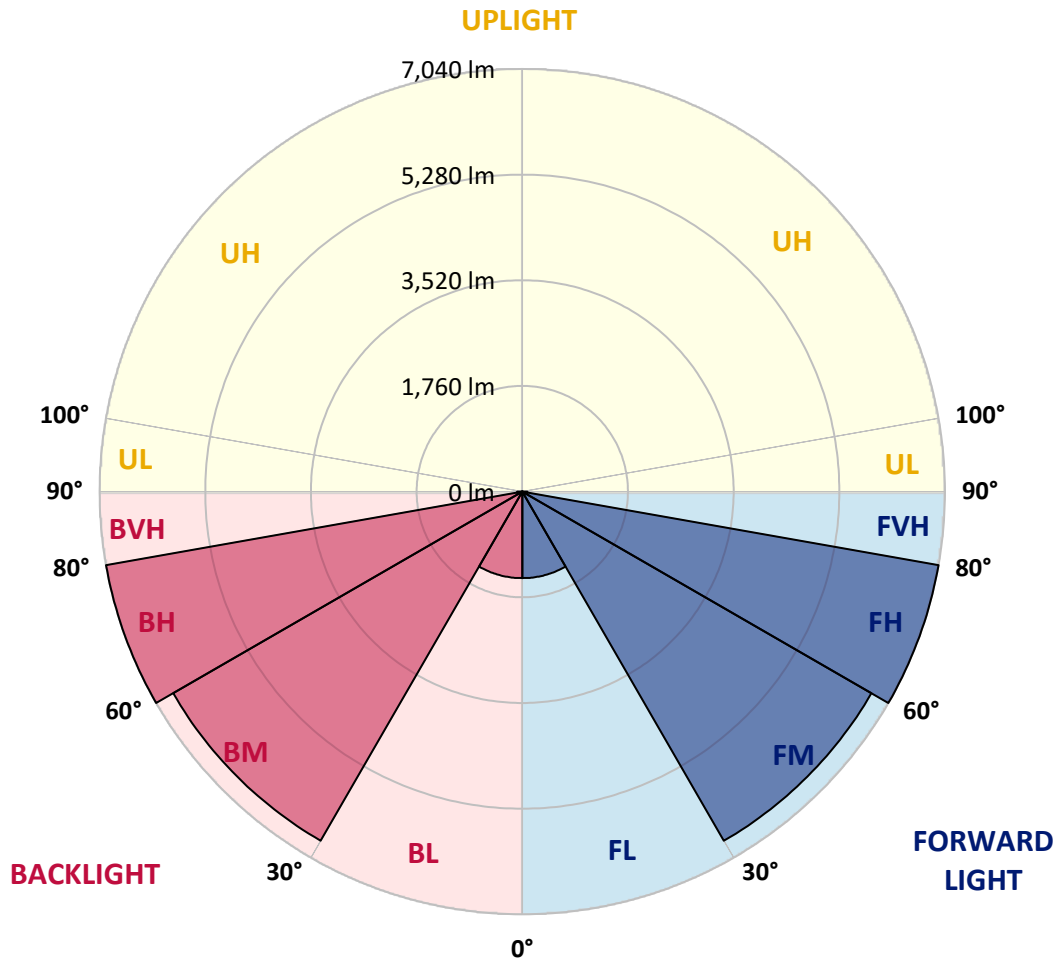
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1440.5	4.7			
FM (30°-60°)	6713.1	22.0			
FH (60°-80°)	7039.6	23.0			G3/7500
FVH (80°-90°)	85.3	0.3			G1/100
BL (0°-30°)	1440.5	4.7	B3/2500		
BM (30°-60°)	6713.1	22.0	B4/8500		
BH (60°-80°)	7039.6	23.0	B5		G3/7500
BVH (80°-90°)	85.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3393.2	3393.2	3393.2	3393.2	3393.2	3393.2	3393.2	3393.2	3393.2	3393.2	3393.2
2.5°	3393.2	3396.4	3391.6	3388.4	3386.8	3386.8	3385.2	3386.8	3396.4	3398.0	3393.2
5°	3383.5	3386.8	3385.2	3381.9	3380.3	3380.3	3378.7	3377.1	3385.2	3388.4	3386.8
7.5°	3370.7	3372.3	3370.7	3369.1	3370.7	3369.1	3364.2	3361.0	3367.4	3367.4	3365.8
10°	3348.1	3351.3	3349.7	3351.3	3354.6	3354.6	3348.1	3341.7	3343.3	3340.1	3340.1
12.5°	3320.7	3325.6	3327.2	3333.6	3341.7	3351.3	3336.8	3322.4	3319.1	3317.5	3315.9
15°	3303.0	3307.9	3314.3	3320.7	3335.2	3356.2	3335.2	3312.7	3306.2	3299.8	3296.6
17.5°	3298.2	3304.6	3314.3	3324.0	3343.3	3364.2	3346.5	3324.0	3307.9	3298.2	3295.0
20°	3311.1	3315.9	3330.4	3348.1	3375.5	3396.4	3378.7	3354.6	3330.4	3315.9	3311.1
22.5°	3336.8	3344.9	3362.6	3394.8	3433.5	3464.1	3439.9	3399.7	3361.0	3341.7	3335.2
25°	3393.2	3399.7	3420.6	3464.1	3509.2	3538.2	3512.4	3465.7	3412.5	3386.8	3378.7
27.5°	3478.6	3488.2	3510.8	3562.3	3599.3	3615.5	3597.7	3565.5	3526.9	3499.5	3493.1
30°	3599.3	3610.6	3644.4	3699.2	3723.4	3733.0	3725.0	3704.0	3676.6	3647.7	3641.2
32.5°	3762.0	3768.4	3807.1	3858.6	3881.2	3884.4	3874.7	3865.1	3820.0	3771.7	3768.4
35°	3944.0	3955.3	4002.0	4063.2	4084.1	4085.7	4066.4	4051.9	3998.7	3960.1	3960.1
37.5°	4185.6	4190.4	4235.5	4304.7	4327.3	4320.8	4311.2	4298.3	4241.9	4192.0	4193.6
40°	4469.0	4478.7	4517.3	4597.8	4597.8	4589.8	4596.2	4586.6	4530.2	4481.9	4483.5
42.5°	4805.6	4810.4	4857.1	4942.5	4936.0	4919.9	4926.4	4913.5	4878.0	4823.3	4804.0
45°	5164.7	5184.0	5264.5	5346.7	5333.8	5282.3	5308.0	5304.8	5272.6	5190.5	5195.3
47.5°	5597.9	5630.1	5707.4	5805.7	5791.2	5710.6	5739.6	5759.0	5713.9	5623.7	5607.6
50°	6085.9	6106.8	6221.2	6313.0	6300.1	6214.7	6280.7	6284.0	6171.2	6044.0	6044.0
52.5°	6606.1	6627.0	6781.6	6924.9	6933.0	6809.0	6862.1	6858.9	6675.3	6507.8	6475.6
55°	7189.0	7198.7	7398.4	7609.4	7654.5	7533.7	7540.1	7475.7	7237.3	7042.5	7024.8
57.5°	7791.3	7826.8	8047.4	8321.2	8454.8	8380.8	8346.9	8174.6	7944.3	7720.5	7709.2
60°	8458.1	8459.7	8746.3	9070.0	9340.6	9390.5	9252.0	9021.7	8723.8	8427.5	8414.6
62.5°	8920.3	8989.5	9351.9	9899.4	10384.2	10664.4	10298.8	9815.7	9229.5	8751.2	8702.9
65°	9015.3	9062.0	9614.4	10542.0	11532.4	12136.3	11290.8	10263.4	9263.3	8625.6	8593.3
67.5°	8247.1	8297.0	9041.0	10464.7	12337.6	13576.1	11935.0	10047.6	8690.0	7900.9	7838.0
70°	6379.0	6435.3	7354.9	9211.8	12158.9	14028.6	11476.0	8764.1	7166.5	6314.6	6200.2
72.5°	3391.6	3599.3	4385.2	6322.6	9868.8	12078.3	9409.8	6395.1	4622.0	3778.1	3626.7
75°	1238.4	1264.2	1702.2	2803.8	5741.2	8282.5	5961.9	3050.2	1753.8	1354.4	1285.1
77.5°	512.1	510.5	560.4	847.1	2085.5	4241.9	2327.1	895.4	558.8	517.0	510.5
80°	302.8	302.8	333.4	352.7	549.2	1280.3	613.6	399.4	335.0	306.0	310.8
82.5°	135.3	143.3	211.0	222.2	265.7	351.1	296.3	254.5	219.0	151.4	136.9
85°	74.1	64.4	111.1	116.0	127.2	130.4	140.1	138.5	127.2	74.1	75.7
87.5°	14.5	17.7	32.2	24.2	27.4	24.2	32.2	45.1	46.7	25.8	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)