

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: P452743

Luminaire Tested: **GALN-SA3D-727-U-5NQ**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452743  
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-SA3D-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20156 lumens  
Efficiency: N/A  
Efficacy: 109.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2

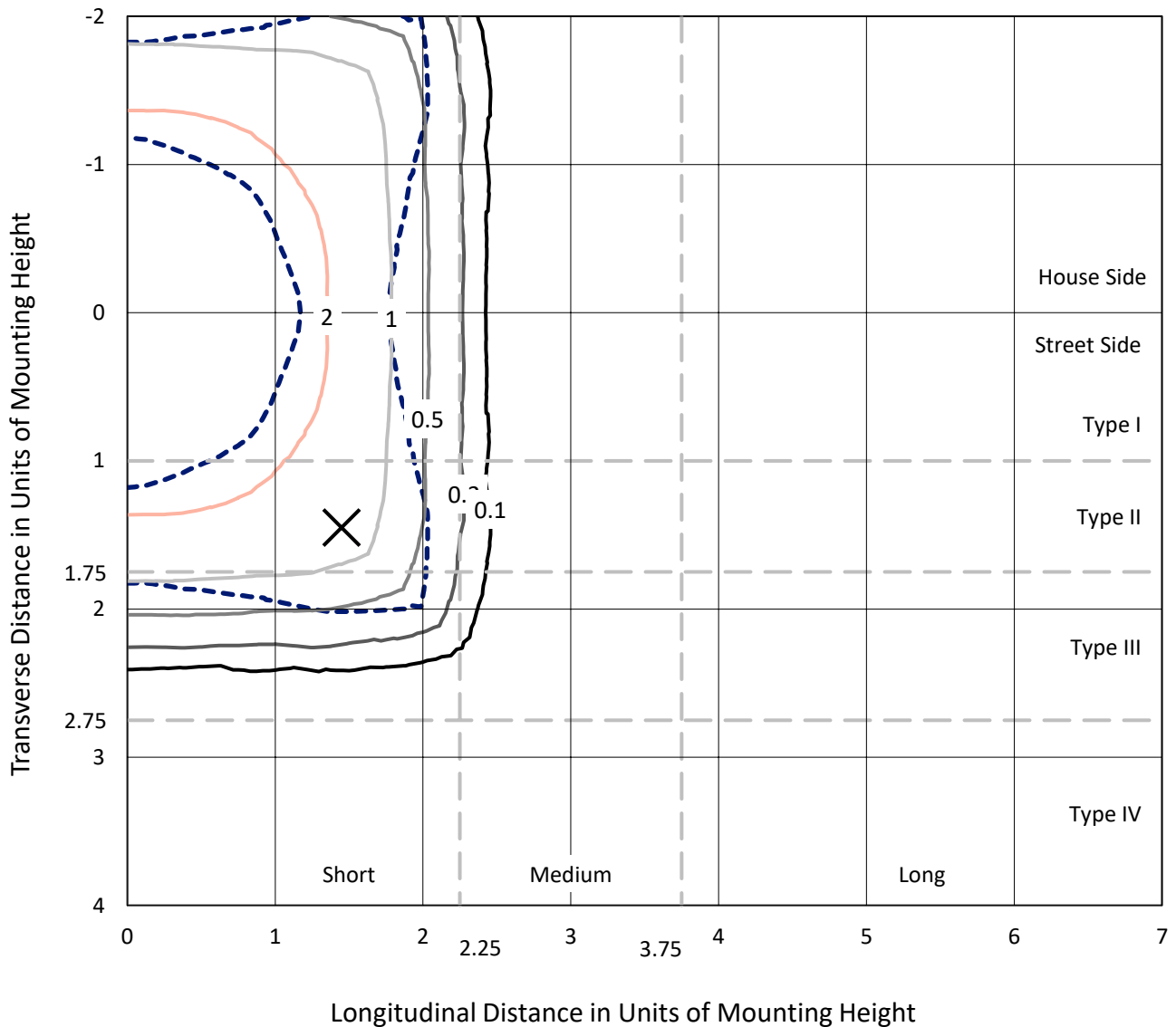
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

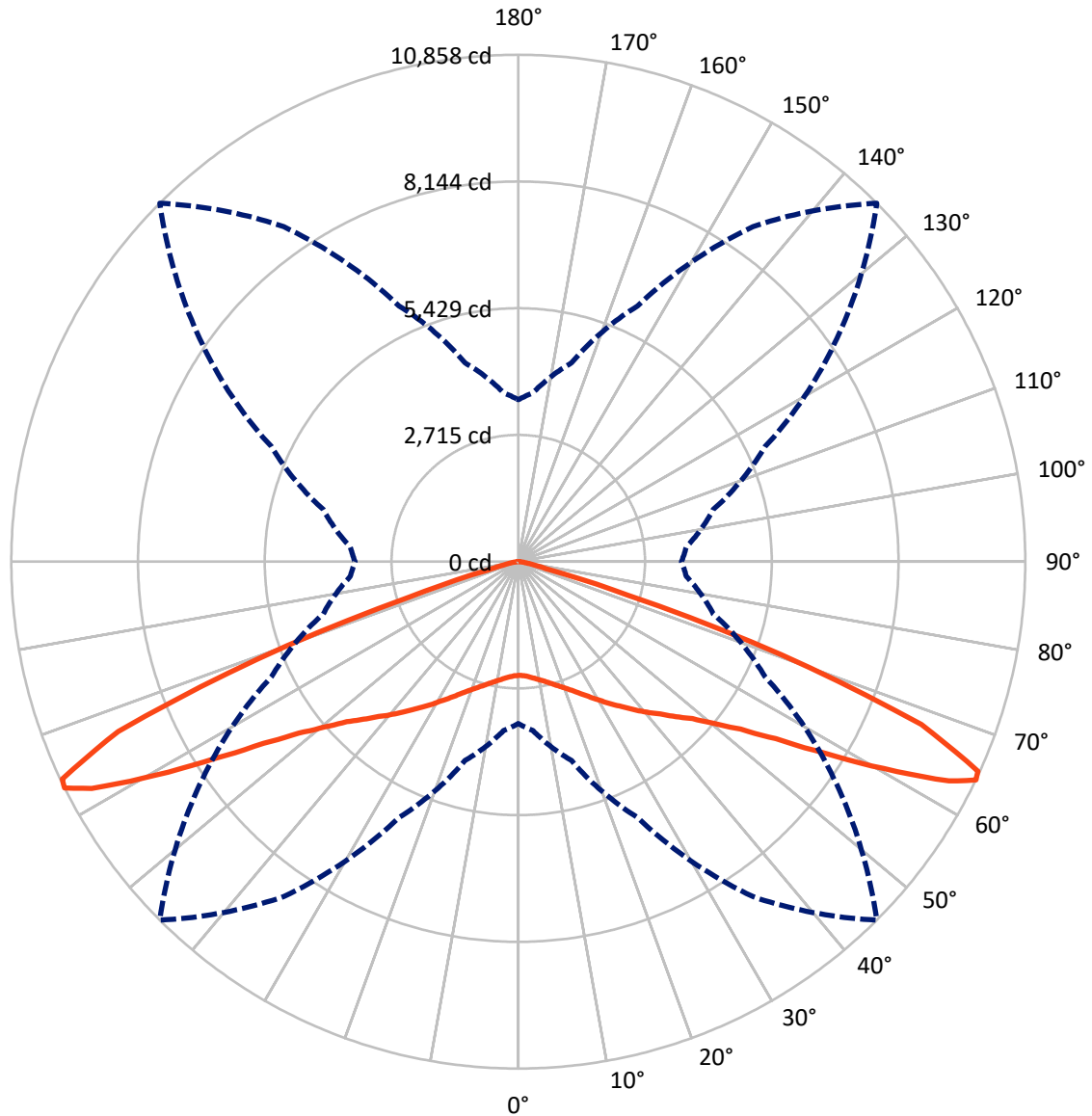
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	10078.0	0.0	10078.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10078.0	0.0	10078.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	20156.0	0.0	20156.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	239.3	1.2
10°-20°	772.0	3.8
20°-30°	1458.9	7.2
30°-40°	2416.1	12.0
40°-50°	3771.9	18.7
50°-60°	5831.3	28.9
60°-70°	5028.3	24.9
70°-80°	569.8	2.8
80°-90°	68.3	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°	20156.0	100.0
0°-180°	20156.0	100.0



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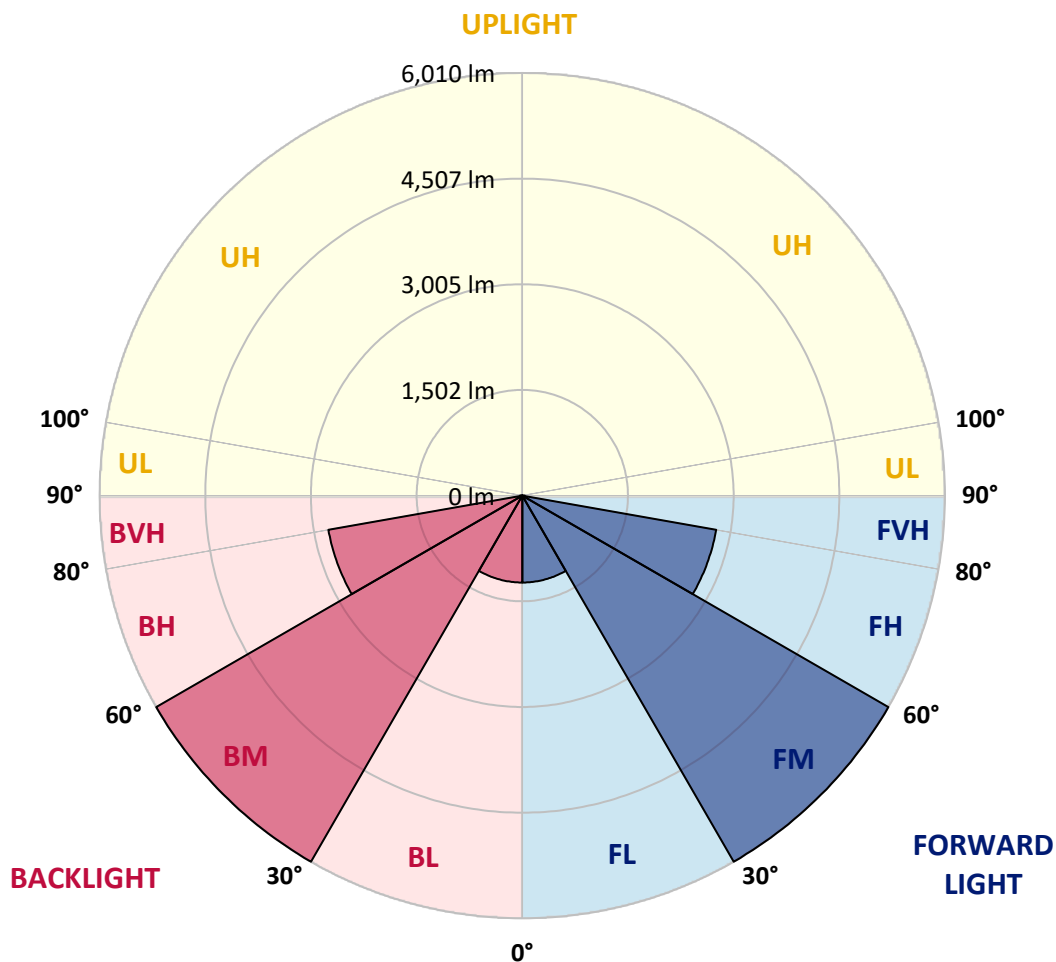
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1235.1	6.1			
FM	(30°-60°)	6009.7	29.8			
FH	(60°-80°)	2799.1	13.9			G2/5000
FVH	(80°-90°)	34.1	0.2			G1/100
BL	(0°-30°)	1235.1	6.1	B3/2500		
BM	(30°-60°)	6009.7	29.8	B4/8500		
BH	(60°-80°)	2799.1	13.9	B4/5000		G2/5000
BVH	(80°-90°)	34.1	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-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2	2436.2
2.5°	2445.8	2451.1	2446.9	2445.8	2444.7	2444.7	2444.7	2445.8	2450.1	2453.3	2451.1
5°	2476.8	2481.0	2478.9	2477.8	2476.8	2477.8	2475.7	2474.6	2477.8	2477.8	2476.8
7.5°	2515.2	2520.5	2518.4	2520.5	2521.6	2522.7	2517.3	2513.1	2512.0	2515.2	2513.1
10°	2567.5	2571.8	2572.8	2573.9	2576.0	2575.0	2568.6	2561.1	2560.0	2559.0	2557.9
12.5°	2626.2	2629.4	2630.5	2634.8	2638.0	2639.0	2631.6	2625.2	2614.5	2616.6	2612.3
15°	2692.4	2698.8	2697.7	2704.2	2712.7	2714.8	2707.4	2696.7	2687.1	2681.7	2678.5
17.5°	2773.5	2777.8	2775.7	2782.1	2792.8	2798.1	2791.7	2777.8	2768.2	2756.5	2750.1
20°	2869.6	2877.1	2879.2	2879.2	2888.8	2894.2	2884.6	2880.3	2865.4	2856.8	2851.5
22.5°	2978.5	2981.7	2988.1	2994.5	3004.1	3002.0	2998.8	2992.4	2978.5	2971.0	2962.5
25°	3101.3	3104.5	3120.5	3134.4	3137.6	3135.4	3131.2	3128.0	3115.2	3098.1	3091.7
27.5°	3244.3	3250.7	3272.1	3284.9	3284.9	3286.0	3277.4	3288.1	3260.4	3240.1	3237.9
30°	3423.7	3428.0	3446.1	3458.9	3452.5	3447.2	3445.0	3455.7	3425.8	3389.5	3381.0
32.5°	3600.9	3615.9	3631.9	3659.6	3637.2	3627.6	3625.5	3632.9	3598.8	3558.2	3546.5
35°	3790.9	3801.6	3831.5	3855.0	3834.7	3812.3	3821.9	3845.4	3804.8	3750.4	3748.2
37.5°	4001.2	4010.9	4049.3	4073.8	4058.9	4020.5	4036.5	4064.2	4023.7	3956.4	3942.5
40°	4220.1	4240.4	4288.4	4314.0	4289.5	4238.2	4268.1	4298.0	4261.7	4183.8	4152.8
42.5°	4465.6	4497.7	4567.1	4579.9	4532.9	4463.5	4515.8	4563.9	4538.2	4448.6	4436.8
45°	4752.8	4772.0	4857.4	4885.2	4820.1	4733.6	4798.7	4886.3	4867.0	4763.5	4741.1
47.5°	5074.2	5092.3	5180.9	5222.5	5140.3	5024.0	5141.4	5255.6	5243.9	5132.9	5122.2
50°	5454.2	5458.5	5581.2	5628.2	5546.0	5445.7	5550.3	5692.3	5645.3	5503.3	5501.2
52.5°	5870.6	5875.9	6030.7	6121.4	6075.5	5962.4	6086.2	6172.7	6053.1	5867.4	5853.5
55°	6231.4	6258.1	6469.5	6710.7	6773.7	6691.5	6728.9	6688.3	6393.7	6133.2	6092.6
57.5°	6378.7	6431.0	6752.4	7202.9	7612.8	7734.5	7446.3	7059.8	6529.2	6160.9	6121.4
60°	6019.0	6075.5	6574.1	7429.2	8475.4	9003.9	8193.6	7122.8	6220.7	5703.0	5641.0
62.5°	4820.1	4836.1	5569.5	6896.5	8978.3	10346.9	8508.5	6585.8	5322.9	4619.4	4594.8
64°	3468.5	3632.9	4410.1	6046.7	8758.3	10858.2	8327.0	5833.2	4323.7	3611.6	3496.3
65°	2594.2	2639.0	3555.0	5163.8	8370.8	10819.8	7974.7	5113.7	3580.6	2763.9	2635.8
67.5°	980.0	985.4	1312.0	2573.9	5959.2	9309.2	6086.2	2782.1	1508.5	1091.1	1051.6
70°	406.7	414.2	481.5	865.8	2561.1	5977.3	2934.7	1003.5	551.9	447.3	440.9
72.5°	297.9	302.1	322.4	384.3	787.9	2454.3	965.1	426.0	323.5	289.3	286.1
75°	233.8	235.9	250.9	282.9	367.2	680.0	401.4	292.5	246.6	222.1	219.9
77.5°	178.3	183.6	194.3	215.6	246.6	322.4	265.8	218.9	190.0	169.7	166.5
80°	122.8	129.2	149.5	158.0	165.5	209.2	181.5	165.5	148.4	123.8	116.4
82.5°	75.8	80.1	100.4	107.8	104.6	117.4	116.4	118.5	105.7	76.9	71.5
85°	39.5	41.6	54.4	56.6	52.3	48.0	59.8	69.4	65.1	43.8	42.7
87.5°	8.5	9.6	11.7	10.7	11.7	11.7	14.9	22.4	23.5	14.9	13.9
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)