

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: P458837

Luminaire Tested: **GALN-SA3D-735-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458837  
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-SA3D-735-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22195 lumens  
Efficiency: N/A  
Efficacy: 120.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

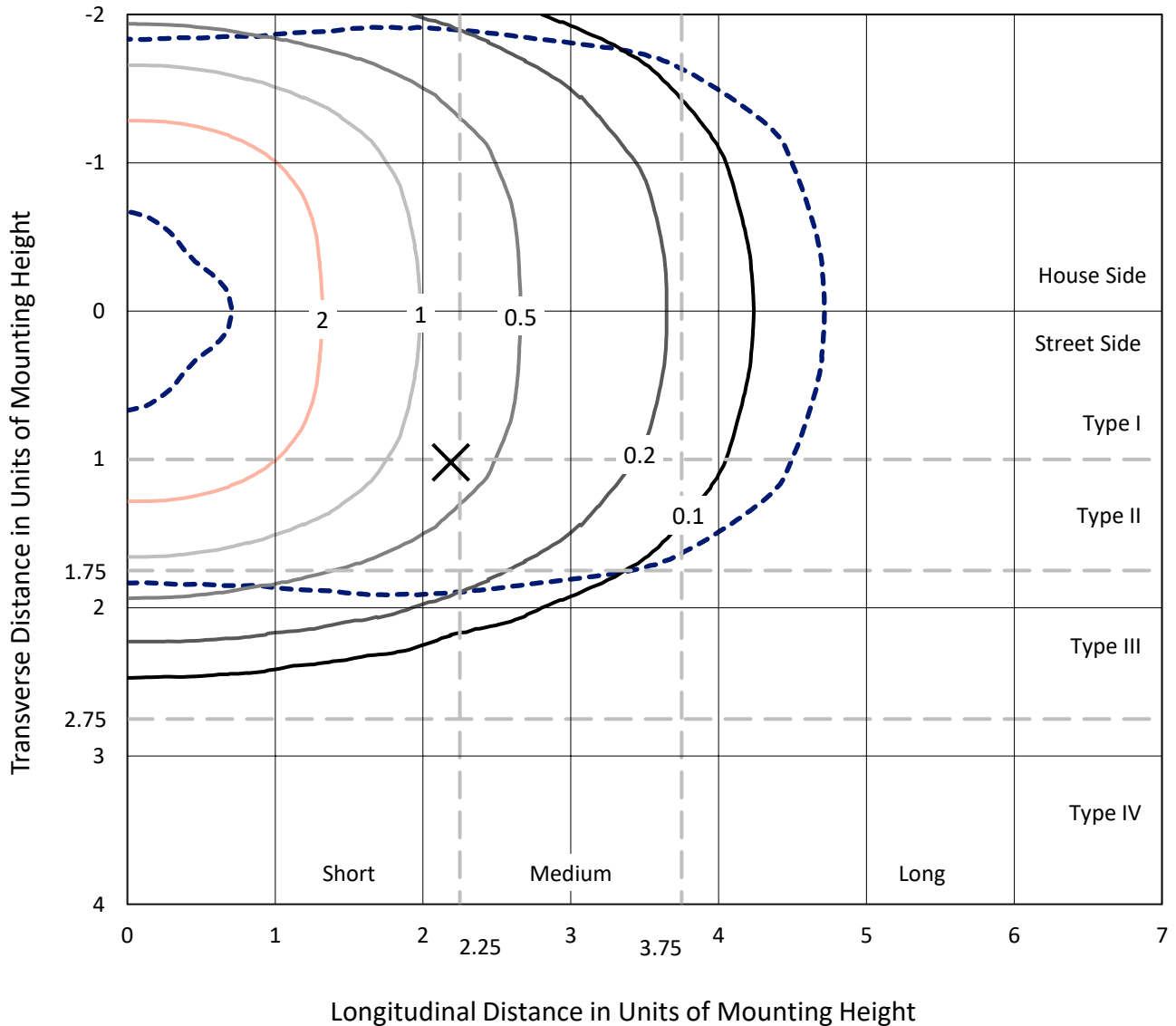
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

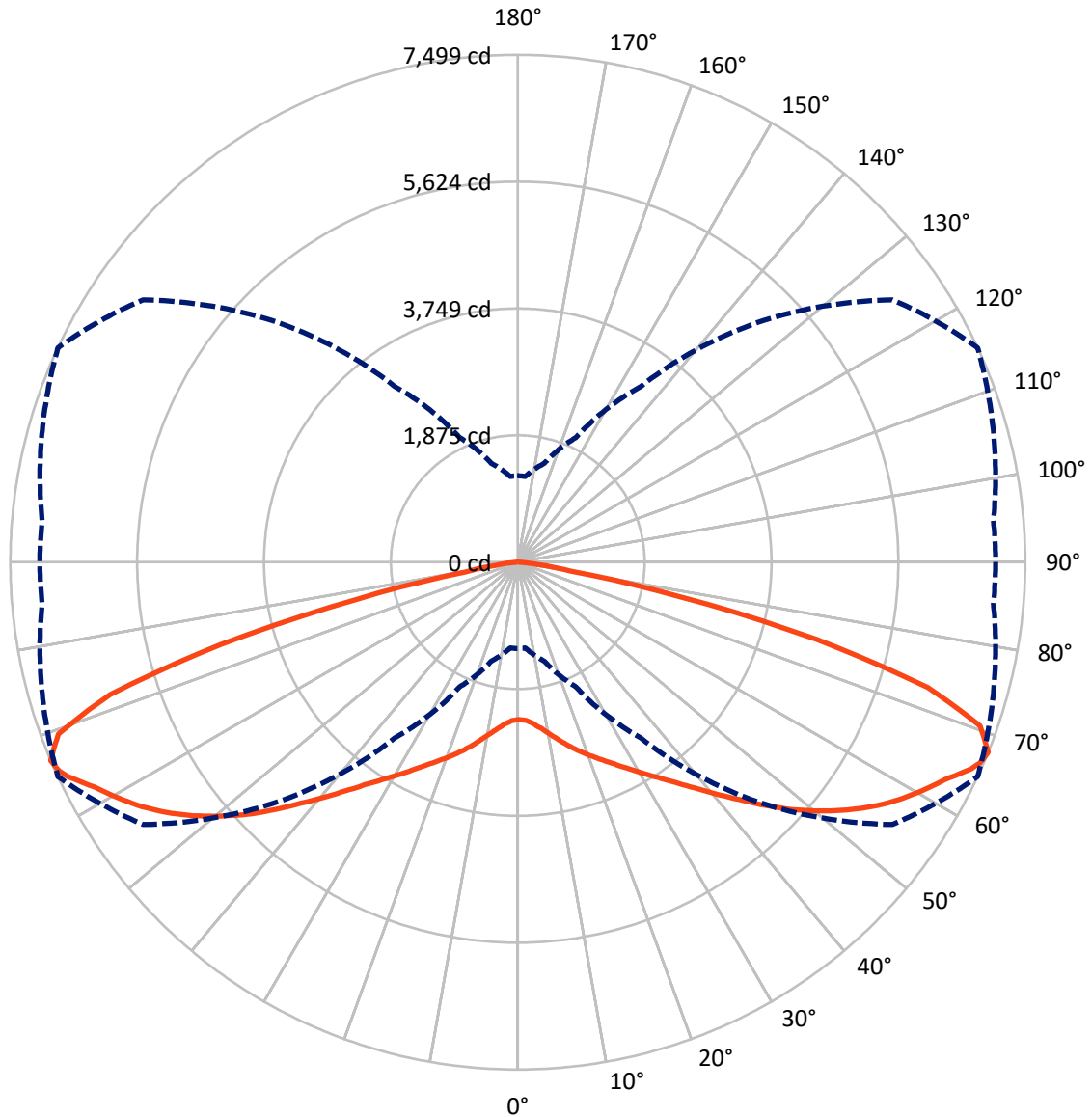
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 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	11097.5	0.0	11097.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11097.5	0.0	11097.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	22195.0	0.0	22195.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	229.3	1.0
10°-20°	767.4	3.5
20°-30°	1501.1	6.8
30°-40°	2553.1	11.5
40°-50°	4040.8	18.2
50°-60°	5358.0	24.1
60°-70°	5054.3	22.8
70°-80°	2498.6	11.3
80°-90°	192.6	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°	22195.0	100.0
0°-180°	22195.0	100.0

**Coefficient of Utilization**



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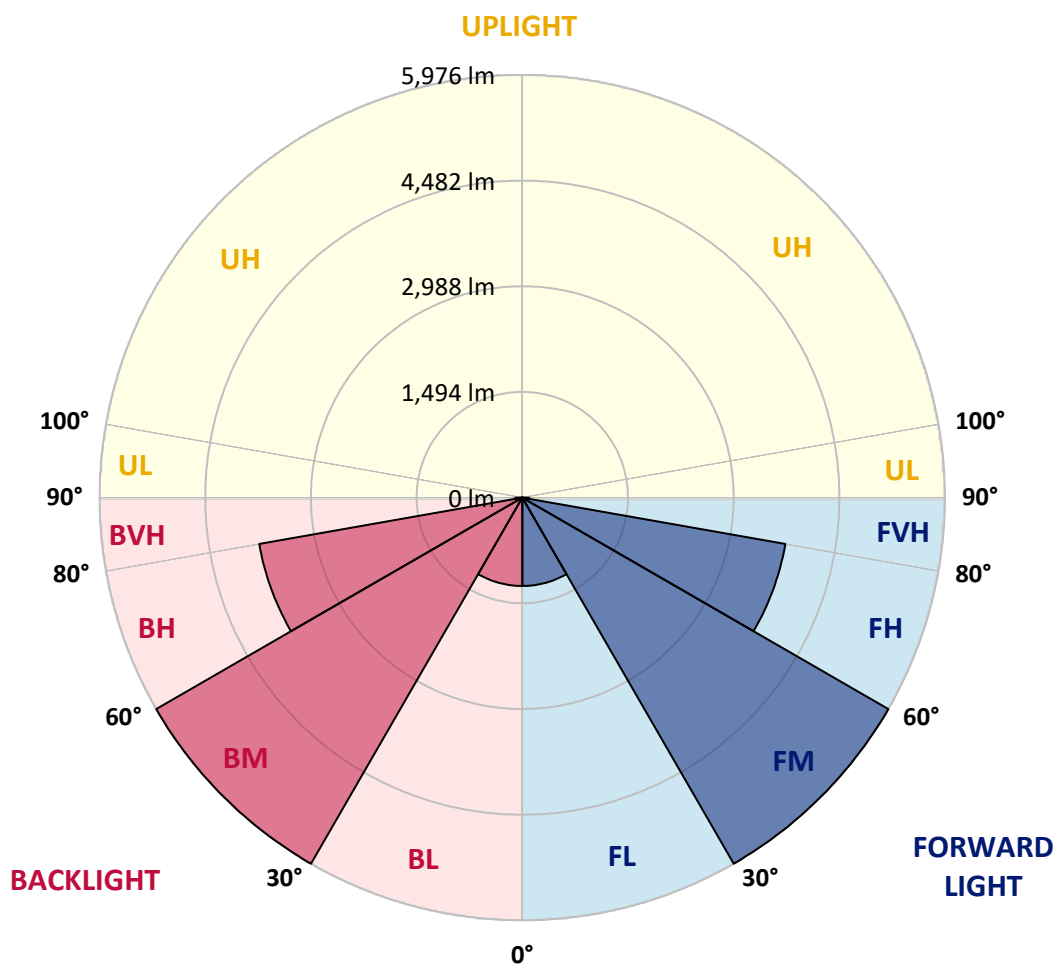
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1248.9	5.6			
FM	(30°-60°)	5976.0	26.9			
FH	(60°-80°)	3776.4	17.0			G2/5000
FVH	(80°-90°)	96.3	0.4			G1/100
BL	(0°-30°)	1248.9	5.6	B3/2500		
BM	(30°-60°)	5976.0	26.9	B4/8500		
BH	(60°-80°)	3776.4	17.0	B4/5000		G4/5000
BVH	(80°-90°)	96.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7	2324.7
2.5°	2312.8	2315.2	2317.6	2321.2	2325.9	2333.1	2337.8	2341.4	2350.9	2352.1	2350.9
5°	2304.5	2306.9	2312.8	2323.5	2339.0	2360.4	2377.1	2397.3	2412.7	2423.4	2421.0
7.5°	2303.3	2308.1	2317.6	2340.2	2369.9	2406.8	2444.8	2479.3	2509.0	2532.8	2529.3
10°	2322.4	2328.3	2343.8	2377.1	2423.4	2476.9	2530.4	2581.6	2624.4	2655.3	2666.0
12.5°	2354.5	2359.2	2387.8	2437.7	2504.3	2570.9	2631.5	2694.5	2754.0	2806.3	2806.3
15°	2410.3	2418.7	2454.3	2526.9	2608.9	2686.2	2748.1	2814.6	2878.9	2938.3	2956.2
17.5°	2487.6	2499.5	2553.0	2645.8	2750.4	2821.8	2880.0	2934.7	2990.6	3047.7	3056.0
20°	2593.5	2605.4	2676.7	2788.5	2912.2	2997.8	3037.0	3050.1	3077.4	3132.1	3139.3
22.5°	2737.4	2749.2	2828.9	2955.0	3092.9	3185.7	3202.3	3171.4	3164.2	3207.1	3211.8
25°	2900.3	2911.0	3002.5	3138.1	3280.8	3381.9	3377.1	3301.0	3258.2	3284.4	3291.5
27.5°	3083.4	3098.8	3191.6	3331.9	3486.5	3575.7	3561.4	3450.8	3359.3	3354.5	3356.9
30°	3317.6	3334.3	3422.3	3556.7	3708.9	3790.9	3761.2	3612.5	3471.0	3423.5	3423.5
32.5°	3565.0	3606.6	3695.8	3836.1	3955.0	4014.5	3969.3	3790.9	3603.0	3536.4	3532.9
35°	3887.2	3909.8	3997.8	4134.6	4223.8	4270.1	4183.3	3991.9	3775.5	3697.0	3686.3
37.5°	4202.4	4221.4	4323.6	4454.4	4562.7	4560.3	4442.6	4230.9	3989.5	3901.5	3894.4
40°	4524.6	4544.8	4661.4	4781.5	4889.7	4880.2	4737.5	4500.8	4244.0	4145.3	4164.3
42.5°	4804.0	4826.6	4958.6	5129.9	5227.4	5225.0	5059.7	4793.3	4525.8	4437.8	4454.4
45°	5058.5	5078.7	5232.1	5428.3	5571.0	5588.9	5408.1	5126.3	4851.6	4738.6	4743.4
47.5°	5238.1	5276.1	5436.7	5661.4	5855.2	5918.3	5741.1	5465.2	5148.9	5031.2	5038.3
50°	5374.8	5398.6	5573.4	5829.1	6074.0	6204.8	6062.1	5779.1	5446.2	5321.3	5338.0
52.5°	5391.5	5420.0	5610.3	5905.2	6219.1	6417.7	6347.5	6085.9	5749.4	5621.0	5656.6
55°	5255.9	5272.6	5499.7	5857.6	6276.2	6575.8	6593.7	6371.3	6038.4	5940.8	5964.6
57.5°	4869.4	4912.3	5200.0	5635.2	6197.7	6660.3	6778.0	6630.5	6330.9	6234.6	6272.6
60°	4235.6	4278.5	4567.4	5119.2	5901.6	6621.0	6930.2	6860.0	6596.1	6518.8	6539.0
62.5°	3318.8	3315.3	3673.2	4349.8	5313.0	6428.4	7043.2	7081.2	6857.7	6760.1	6791.1
65°	2151.1	2161.8	2507.9	3236.8	4424.7	5938.5	7068.1	7363.0	7114.5	6967.1	6989.6
66°	1730.2	1762.3	2056.0	2727.8	3971.7	5617.4	6993.2	7446.3	7193.0	7014.6	7025.3
67.5°	1277.1	1271.2	1512.6	2031.0	3171.4	5007.4	6759.0	7498.6	7282.2	7057.4	7062.2
70°	728.9	727.7	813.4	1115.4	1864.5	3525.7	5697.1	7247.7	7462.9	7212.0	7198.9
72.5°	532.7	529.2	541.0	616.0	909.7	1780.1	3930.0	6334.4	7370.2	7187.0	7150.2
75°	447.1	444.7	442.4	451.9	510.1	806.2	2085.7	4556.7	6395.1	6745.9	6707.8
77.5°	365.1	365.1	366.2	363.9	366.2	424.5	864.5	2442.5	3894.4	4347.4	4453.3
80°	285.4	284.2	304.4	296.1	277.1	272.3	382.9	786.0	1292.6	1285.4	1060.7
82.5°	210.5	196.2	231.9	225.9	204.5	173.6	223.6	335.3	431.7	280.6	208.1
85°	133.2	132.0	164.1	149.8	124.9	82.0	107.0	143.9	178.4	108.2	88.0
87.5°	23.8	22.6	52.3	38.1	38.1	23.8	29.7	39.2	58.3	40.4	29.7
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)