

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: P452771

Luminaire Tested: **GALN-SA3D-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452771
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-SA3D-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22058 lumens
Efficiency: N/A
Efficacy: 119.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

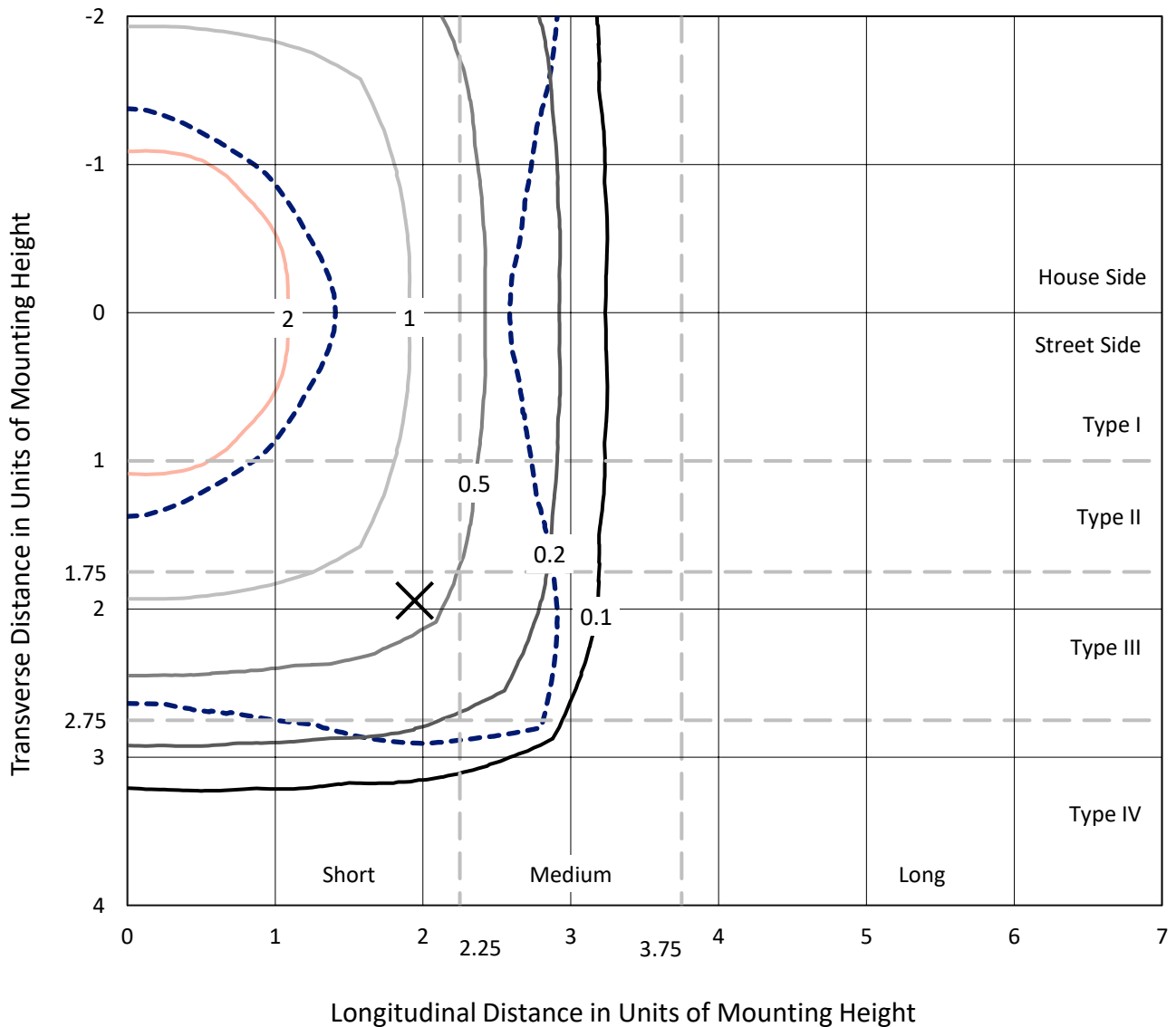
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452771
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Iso-Footcandle Lines of Horizontal Illumination

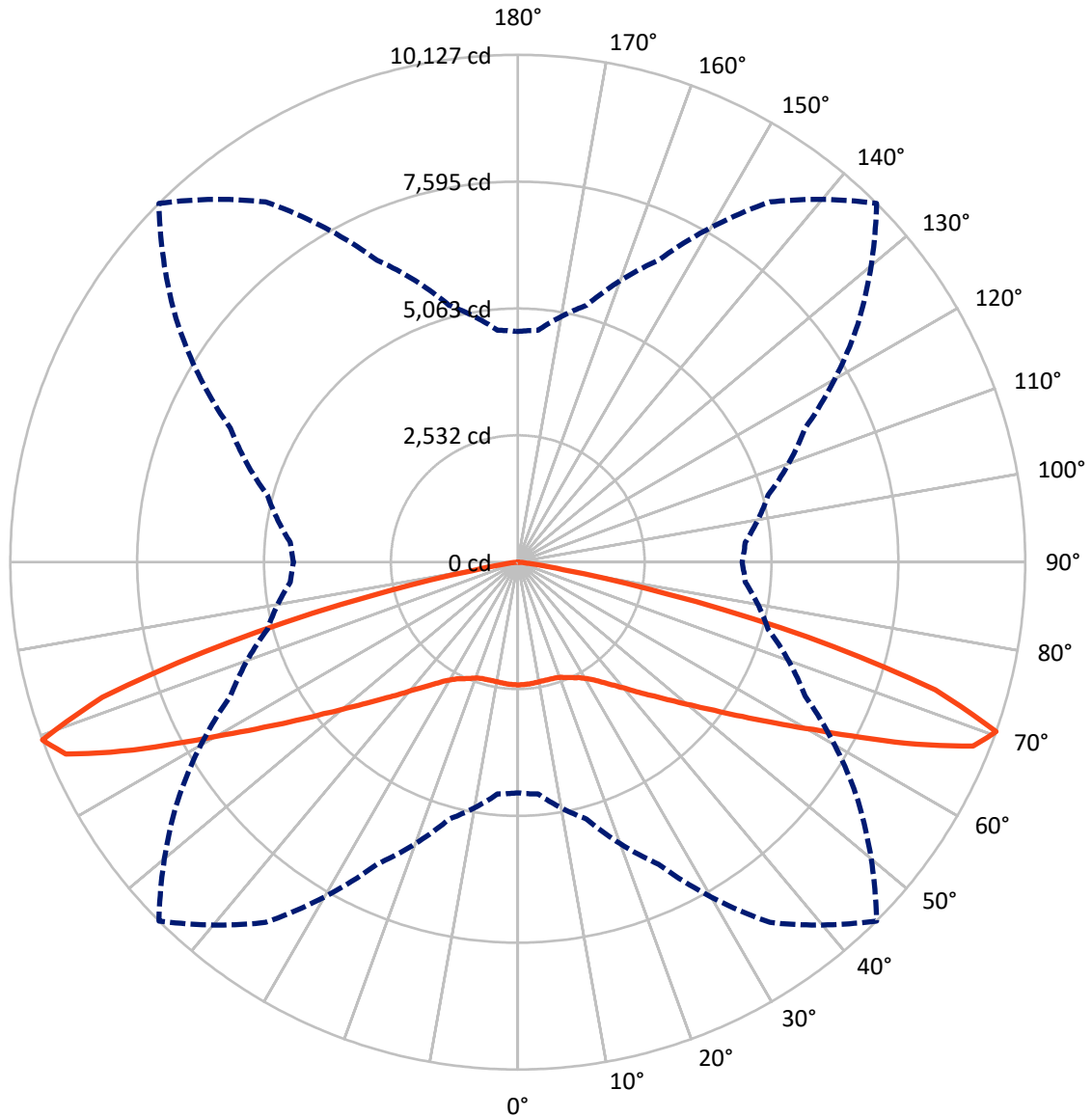
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - N/A

REPORT NUMBER: P452771
CATALOG NUMBER: GALN-SA3D-730-U-5MQ

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
House Side	Lumens	11029.0	0.0	11029.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11029.0	0.0	11029.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22058.0	0.0	22058.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.3	1.1
10°-20°	681.6	3.1
20°-30°	1165.7	5.3
30°-40°	1850.3	8.4
40°-50°	2985.0	13.5
50°-60°	4856.7	22.0
60°-70°	7040.4	31.9
70°-80°	3122.9	14.2
80°-90°	123.2	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°	22058.0	100.0
0°-180°	22058.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452771

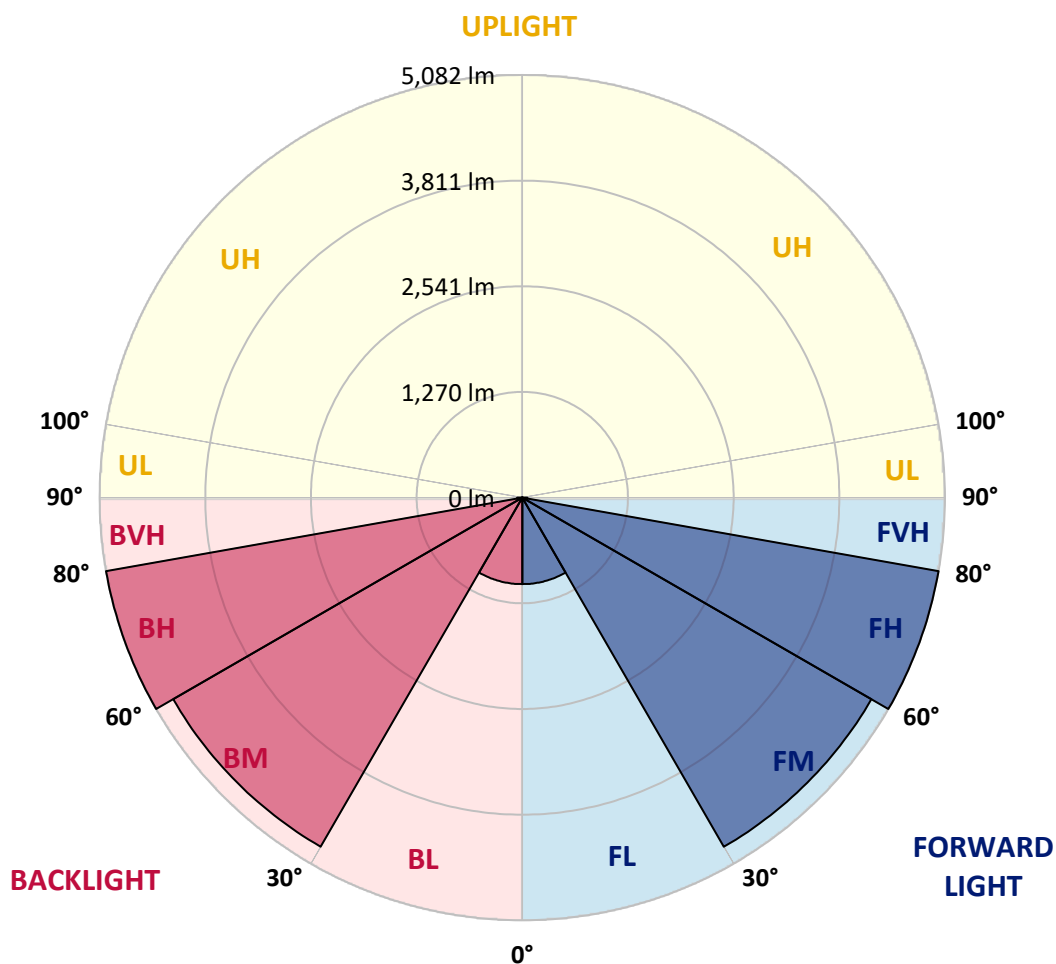
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1039.8	4.7			
FM	(30°-60°)	4846.0	22.0			
FH	(60°-80°)	5081.6	23.0			G3/7500
FVH	(80°-90°)	61.6	0.3			G1/100
BL	(0°-30°)	1039.8	4.7	B3/2500		
BM	(30°-60°)	4846.0	22.0	B3/5000		
BH	(60°-80°)	5081.6	23.0	B5		G3/7500
BVH	(80°-90°)	61.6	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°	2449.4	2449.4	2449.4	2449.4	2449.4	2449.4	2449.4	2449.4	2449.4	2449.4	2449.4
2.5°	2449.4	2451.8	2448.3	2445.9	2444.8	2444.8	2443.6	2444.8	2451.8	2452.9	2449.4
5°	2442.5	2444.8	2443.6	2441.3	2440.1	2440.1	2439.0	2437.8	2443.6	2445.9	2444.8
7.5°	2433.2	2434.3	2433.2	2432.0	2433.2	2432.0	2428.5	2426.2	2430.8	2430.8	2429.7
10°	2416.9	2419.2	2418.0	2419.2	2421.5	2421.5	2416.9	2412.2	2413.4	2411.1	2411.1
12.5°	2397.1	2400.6	2401.8	2406.4	2412.2	2419.2	2408.7	2398.3	2396.0	2394.8	2393.6
15°	2384.3	2387.8	2392.5	2397.1	2407.6	2422.7	2407.6	2391.3	2386.7	2382.0	2379.7
17.5°	2380.8	2385.5	2392.5	2399.4	2413.4	2428.5	2415.7	2399.4	2387.8	2380.8	2378.5
20°	2390.1	2393.6	2404.1	2416.9	2436.6	2451.8	2439.0	2421.5	2404.1	2393.6	2390.1
22.5°	2408.7	2414.6	2427.3	2450.6	2478.5	2500.6	2483.2	2454.1	2426.2	2412.2	2407.6
25°	2449.4	2454.1	2469.2	2500.6	2533.1	2554.1	2535.5	2501.8	2463.4	2444.8	2439.0
27.5°	2511.1	2518.0	2534.3	2571.5	2598.2	2609.9	2597.1	2573.8	2545.9	2526.2	2521.5
30°	2598.2	2606.4	2630.8	2670.3	2687.8	2694.7	2688.9	2673.8	2654.0	2633.1	2628.5
32.5°	2715.7	2720.3	2748.2	2785.4	2801.7	2804.0	2797.0	2790.1	2757.5	2722.6	2720.3
35°	2847.0	2855.2	2888.9	2933.0	2948.2	2949.3	2935.4	2924.9	2886.5	2858.6	2858.6
37.5°	3021.4	3024.9	3057.4	3107.4	3123.7	3119.1	3112.1	3102.8	3062.1	3026.0	3027.2
40°	3226.0	3233.0	3260.9	3319.0	3319.0	3313.2	3317.8	3310.9	3270.2	3235.3	3236.5
42.5°	3469.0	3472.5	3506.2	3567.8	3563.1	3551.5	3556.2	3546.9	3521.3	3481.8	3467.8
45°	3728.2	3742.2	3800.3	3859.6	3850.3	3813.1	3831.7	3829.4	3806.1	3746.8	3750.3
47.5°	4040.9	4064.2	4120.0	4190.9	4180.4	4122.3	4143.2	4157.2	4124.6	4059.5	4047.9
50°	4393.2	4408.3	4490.8	4557.1	4547.8	4486.2	4533.8	4536.2	4454.8	4363.0	4363.0
52.5°	4768.7	4783.8	4895.4	4998.9	5004.7	4915.1	4953.5	4951.2	4818.7	4697.8	4674.5
55°	5189.5	5196.5	5340.6	5492.9	5525.5	5438.3	5442.9	5396.4	5224.4	5083.7	5070.9
57.5°	5624.3	5649.9	5809.1	6006.8	6103.2	6049.8	6025.4	5901.0	5734.7	5573.1	5565.0
60°	6105.6	6106.7	6313.7	6547.3	6742.6	6778.7	6678.7	6512.5	6297.4	6083.5	6074.2
62.5°	6439.2	6489.2	6750.8	7146.0	7496.0	7698.2	7434.3	7085.6	6662.4	6317.2	6282.3
65°	6507.8	6541.5	6940.3	7609.9	8324.8	8760.8	8150.5	7408.8	6686.8	6226.5	6203.2
67.5°	5953.3	5989.3	6526.4	7554.1	8906.1	9800.1	8615.5	7253.0	6273.0	5703.3	5658.0
70°	4604.8	4645.4	5309.2	6649.6	8777.1	10126.7	8284.1	6326.5	5173.2	4558.3	4475.7
72.5°	2448.3	2598.2	3165.6	4564.1	7123.9	8718.9	6792.6	4616.4	3336.4	2727.3	2618.0
75°	894.0	912.6	1228.8	2024.0	4144.4	5978.9	4303.7	2201.8	1266.0	977.7	927.7
77.5°	369.7	368.5	404.6	611.5	1505.5	3062.1	1679.8	646.4	403.4	373.2	368.5
80°	218.6	218.6	240.6	254.6	396.4	924.2	442.9	288.3	241.8	220.9	224.4
82.5°	97.7	103.5	152.3	160.4	191.8	253.4	213.9	183.7	158.1	109.3	98.8
85°	53.5	46.5	80.2	83.7	91.8	94.2	101.1	100.0	91.8	53.5	54.6
87.5°	10.5	12.8	23.3	17.4	19.8	17.4	23.3	32.6	33.7	18.6	15.1
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)