

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: P528689

Luminaire Tested: **GALN-SA3D-740-U-5MQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-5MQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V  
MEDIUM OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13860 lumens  
Efficiency: N/A  
Efficacy: 75.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

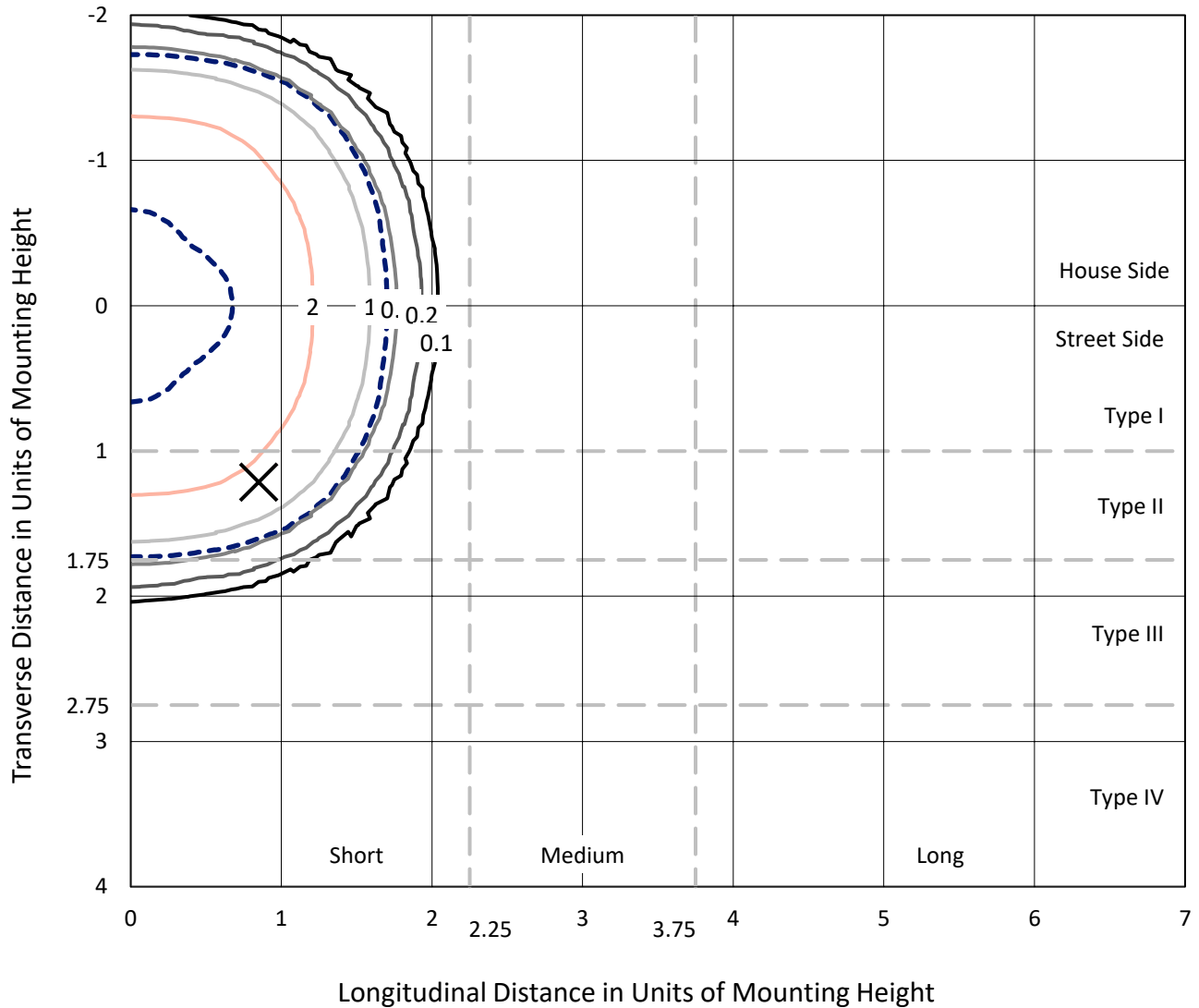
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

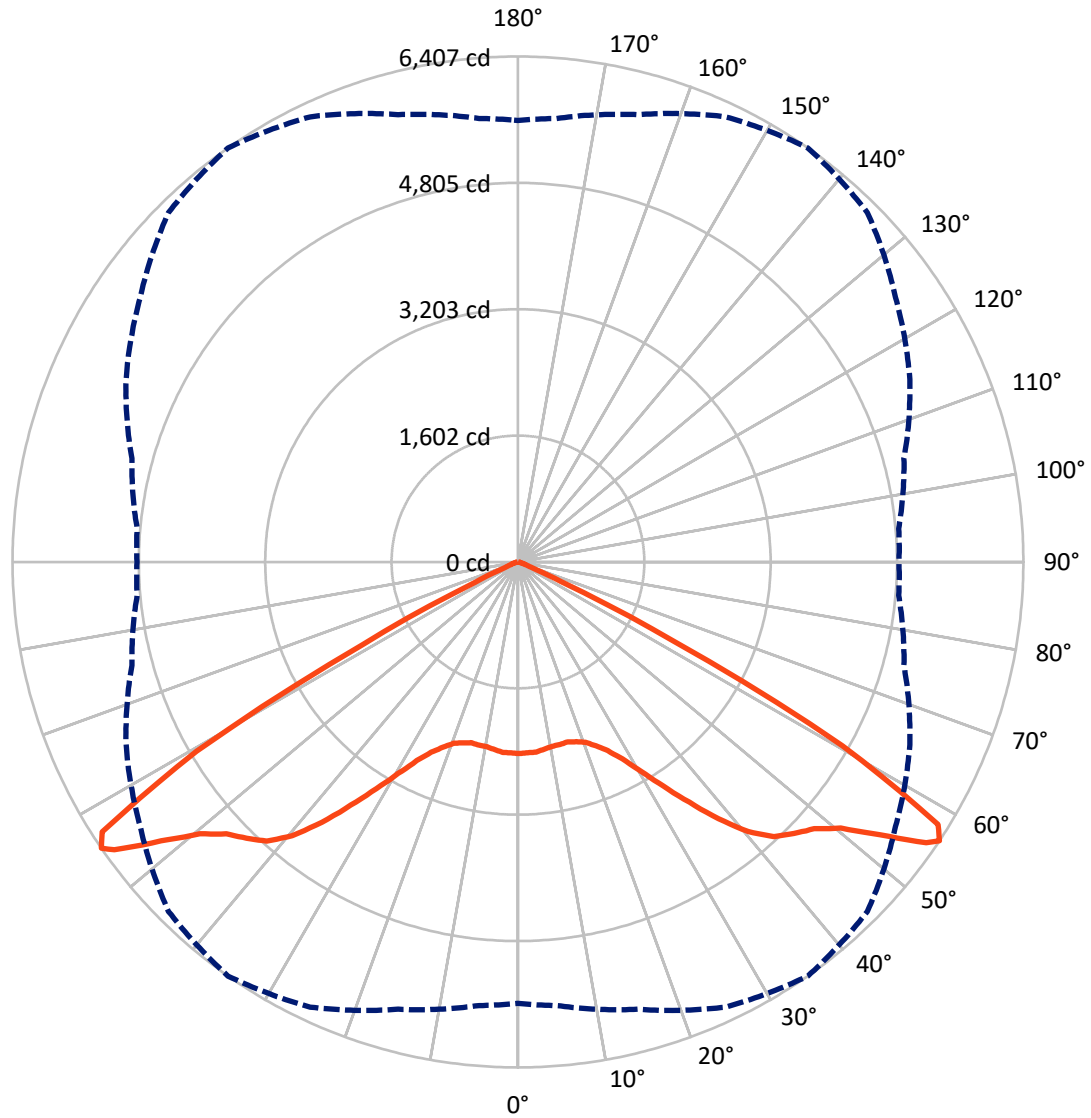
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6930.0	0.0	6930.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6930.0	0.0	6930.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	13860.0	0.0	13860.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.3	1.6
10°-20°	666.4	4.8
20°-30°	1206.7	8.7
30°-40°	2237.7	16.1
40°-50°	3673.0	26.5
50°-60°	4731.9	34.1
60°-70°	1042.9	7.5
70°-80°	60.5	0.4
80°-90°	12.7	0.1
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°	13860.0	100.0
0°-180°	13860.0	100.0

**Coefficient of Utilization**

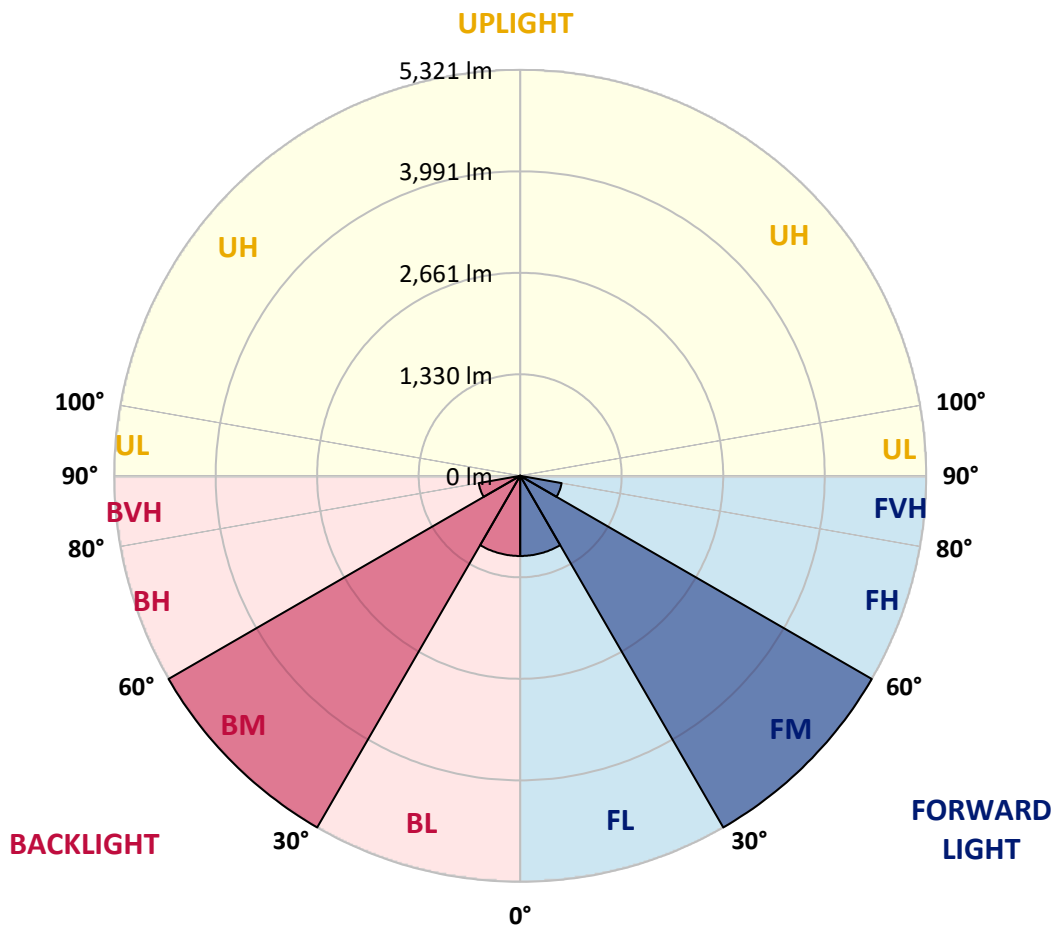


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1050.7	7.6			
FM (30°-60°)	5321.3	38.4			
FH (60°-80°)	551.7	4.0			G0/660
FVH (80°-90°)	6.4	0.0			G0/10
BL (0°-30°)	1050.7	7.6	B3/2500		
BM (30°-60°)	5321.3	38.4	B4/8500		
BH (60°-80°)	551.7	4.0	B2/1000		G0/660
BVH (80°-90°)	6.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6	2428.6
2.5°	2433.6	2433.6	2436.1	2438.6	2421.0	2413.5	2416.0	2411.0	2408.5	2416.0	2416.0
5°	2426.1	2426.1	2418.5	2421.0	2421.0	2398.4	2398.4	2403.5	2403.5	2388.4	2383.4
7.5°	2406.0	2400.9	2390.9	2403.5	2395.9	2395.9	2378.3	2365.8	2360.8	2370.8	2360.8
10°	2363.3	2365.8	2375.8	2380.9	2375.8	2390.9	2360.8	2343.2	2325.6	2318.1	2318.1
12.5°	2343.2	2358.2	2343.2	2355.7	2373.3	2360.8	2343.2	2330.6	2305.5	2295.5	2295.5
15°	2340.7	2350.7	2355.7	2373.3	2365.8	2370.8	2335.6	2320.6	2282.9	2265.3	2257.8
17.5°	2338.2	2350.7	2358.2	2390.9	2395.9	2398.4	2370.8	2325.6	2293.0	2275.4	2257.8
20°	2365.8	2370.8	2385.9	2418.5	2438.6	2473.8	2423.5	2375.8	2305.5	2285.4	2277.9
22.5°	2400.9	2426.1	2441.1	2476.3	2529.0	2559.2	2493.9	2433.6	2360.8	2335.6	2305.5
25°	2514.0	2508.9	2534.1	2606.9	2649.6	2672.2	2619.4	2531.5	2436.1	2406.0	2411.0
27.5°	2654.6	2659.6	2682.2	2762.6	2825.4	2860.5	2797.8	2682.2	2589.3	2539.1	2534.1
30°	2837.9	2832.9	2858.0	2966.0	3079.0	3131.8	3021.3	2885.7	2795.2	2729.9	2745.0
32.5°	3031.3	3033.8	3104.1	3202.1	3385.4	3488.4	3310.1	3144.3	3008.7	2963.5	2940.9
35°	3317.6	3330.2	3385.4	3536.1	3739.5	3872.7	3676.8	3478.4	3322.6	3239.8	3249.8
37.5°	3671.7	3659.2	3752.1	3915.3	4128.8	4226.8	4061.0	3835.0	3676.8	3621.5	3656.7
40°	4048.5	4061.0	4108.7	4256.9	4495.5	4560.8	4314.7	4191.6	4053.5	4025.9	4068.5
42.5°	4425.2	4417.6	4452.8	4585.9	4759.2	4714.0	4568.3	4495.5	4397.5	4342.3	4400.1
45°	4701.4	4688.9	4754.2	4844.6	4907.4	4822.0	4756.7	4731.6	4681.3	4621.1	4673.8
47.5°	4970.2	4960.1	5022.9	5048.0	5053.0	4940.0	4952.6	4997.8	4872.2	4746.6	4806.9
50°	5198.7	5181.1	5259.0	5314.2	5301.7	5120.8	5166.0	5120.8	4924.9	4776.8	4754.2
52.5°	5580.4	5588.0	5670.8	5771.3	5741.2	5590.5	5525.2	5319.2	5068.1	4935.0	4857.1
55°	5821.5	5783.9	5927.0	6246.0	6281.1	6125.4	5836.6	5532.7	5156.0	4992.8	4972.7
56°	5595.5	5643.2	5869.3	6225.9	6406.7	6263.6	5844.1	5480.0	5065.6	4844.6	4829.5
57.5°	5020.4	4995.3	5301.7	5788.9	6281.1	6220.9	5638.2	5103.3	4621.1	4372.4	4342.3
60°	3124.2	3197.1	3465.8	4068.5	4726.5	4756.7	4179.0	3719.5	3156.9	2935.9	2988.6
62.5°	1223.1	1160.3	1328.6	1778.1	2230.2	2330.6	2112.1	1755.5	1441.6	1223.1	1208.0
65°	283.8	276.3	311.4	429.5	600.2	695.7	660.5	474.7	349.1	331.5	306.4
67.5°	160.7	160.7	153.2	153.2	168.3	178.3	170.8	168.3	175.8	183.3	180.8
70°	113.0	110.5	105.5	108.0	103.0	103.0	110.5	123.1	133.1	133.1	135.6
72.5°	67.8	67.8	67.8	75.3	75.3	75.3	82.9	92.9	95.4	92.9	90.4
75°	30.1	30.1	35.2	42.7	47.7	50.2	57.8	62.8	67.8	62.8	57.8
77.5°	7.5	7.5	12.6	17.6	22.6	27.6	37.7	45.2	47.7	45.2	37.7
80°	2.5	2.5	5.0	12.6	22.6	27.6	37.7	40.2	42.7	37.7	30.1
82.5°	2.5	2.5	5.0	12.6	17.6	22.6	30.1	35.2	37.7	32.6	30.1
85°	0.0	2.5	5.0	10.0	15.1	20.1	20.1	15.1	12.6	7.5	10.0
87.5°	0.0	0.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)