

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: P529555

Luminaire Tested: **GALN-SA4D-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529555
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16540 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

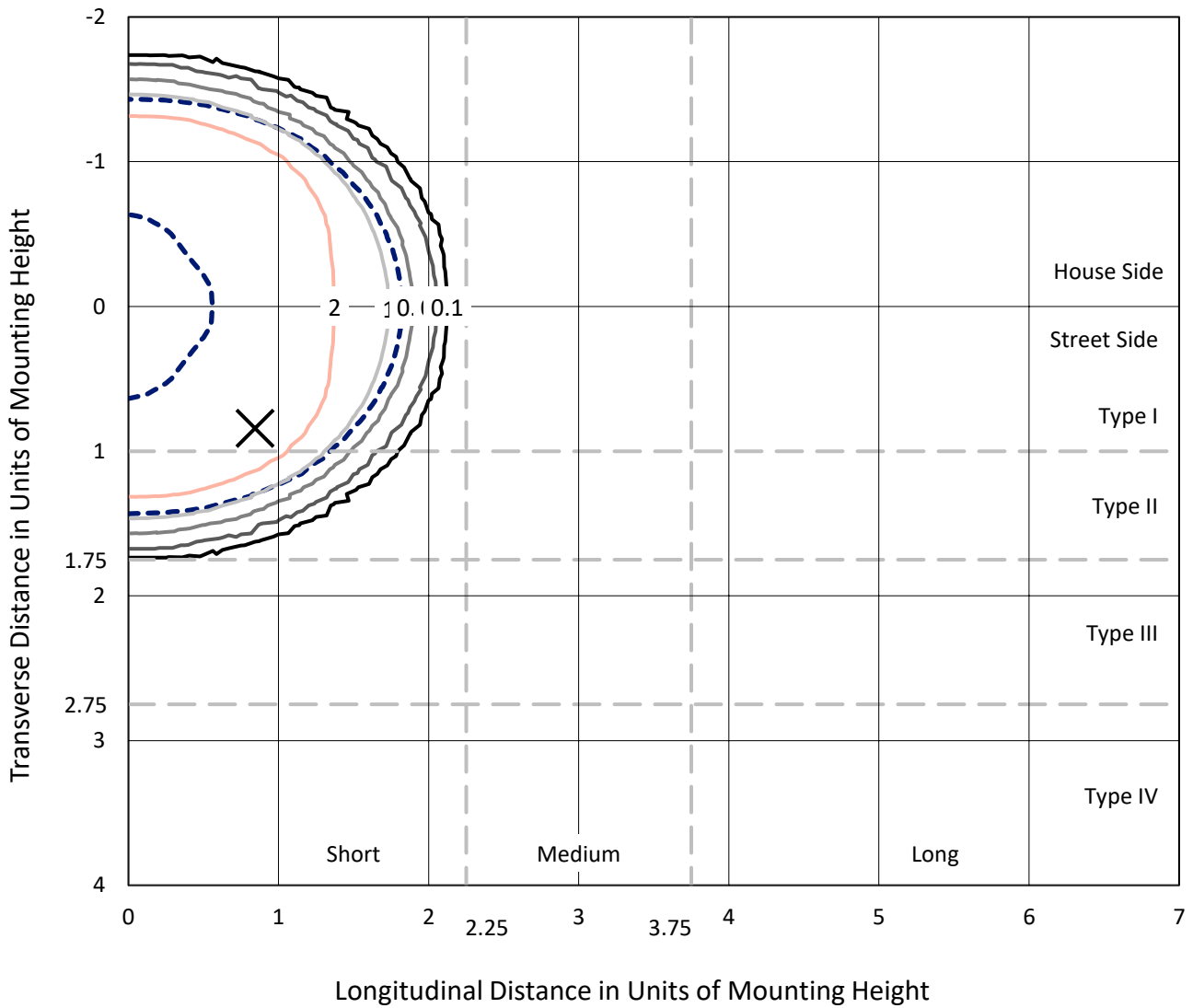
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

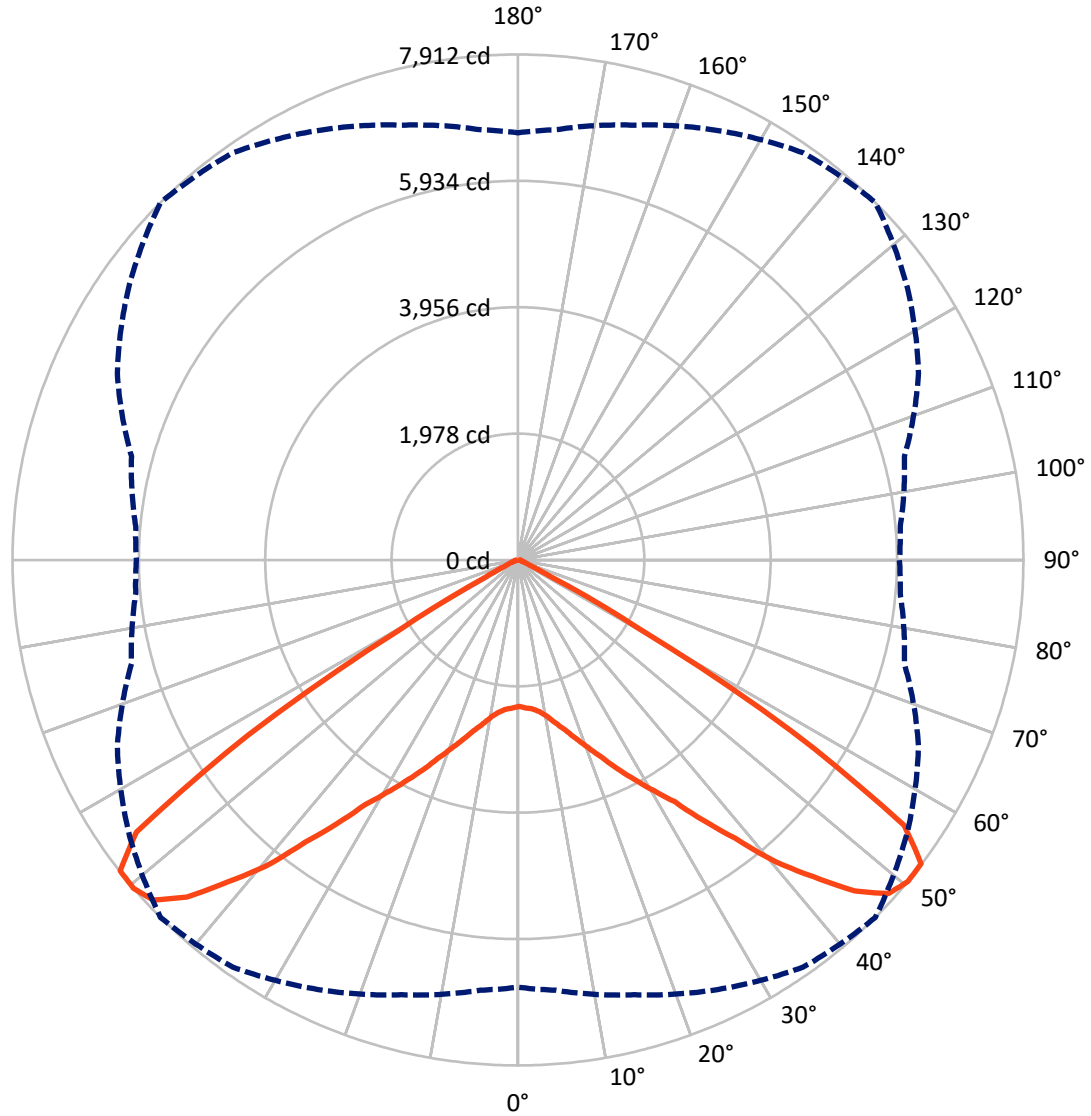
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8270.0	0.0	8270.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8270.0	0.0	8270.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16540.0	0.0	16540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.1	1.4
10°-20°	786.3	4.8
20°-30°	1605.9	9.7
30°-40°	3062.4	18.5
40°-50°	5160.5	31.2
50°-60°	4921.5	29.8
60°-70°	687.0	4.2
70°-80°	65.7	0.4
80°-90°	22.7	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°	16540.0	100.0
0°-180°	16540.0	100.0

Coefficient of Utilization



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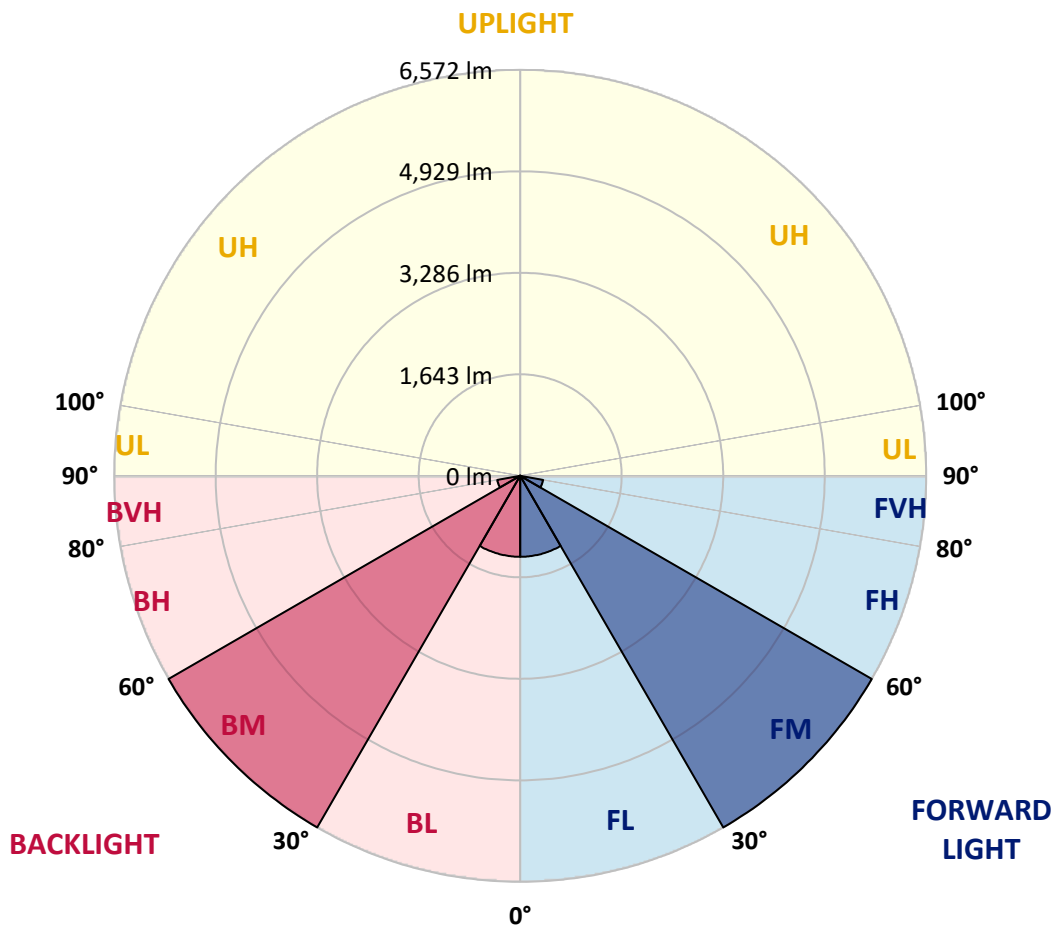
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1310.1	7.9			
FM (30°-60°)	6572.2	39.7			
FH (60°-80°)	376.4	2.3			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1310.1	7.9	B3/2500		
BM (30°-60°)	6572.2	39.7	B4/8500		
BH (60°-80°)	376.4	2.3	B1/500		G0/660
BVH (80°-90°)	11.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2293.1	2293.1	2293.1	2293.1	2293.1	2293.1	2293.1	2293.1	2293.1	2293.1	2293.1
2.5°	2284.7	2284.7	2282.0	2304.2	2293.1	2318.1	2315.4	2323.7	2332.0	2329.3	2351.5
5°	2265.3	2262.5	2262.5	2287.5	2312.6	2340.4	2365.4	2382.1	2410.0	2410.0	2437.8
7.5°	2284.7	2270.8	2290.3	2301.4	2348.7	2396.1	2437.8	2471.2	2535.2	2557.5	2549.1
10°	2290.3	2307.0	2320.9	2354.3	2412.8	2485.1	2521.3	2604.8	2677.1	2727.2	2738.3
12.5°	2326.5	2351.5	2390.5	2471.2	2524.1	2618.7	2668.8	2749.5	2849.7	2905.3	2944.3
15°	2396.1	2404.4	2454.5	2557.5	2671.6	2757.8	2835.7	2894.2	2991.6	3055.6	3058.4
17.5°	2485.1	2521.3	2590.9	2688.3	2807.9	2935.9	2997.2	3061.2	3097.3	3183.6	3203.1
20°	2663.2	2668.8	2735.6	2863.6	3013.9	3130.7	3175.3	3208.7	3194.7	3283.8	3300.5
22.5°	2830.2	2835.7	2919.2	3091.8	3253.2	3353.4	3372.8	3353.4	3311.6	3375.6	3381.2
25°	2999.9	3050.0	3111.3	3283.8	3484.2	3617.7	3620.5	3567.6	3481.4	3492.5	3520.3
27.5°	3264.3	3300.5	3364.5	3523.1	3743.0	3893.2	3868.2	3804.2	3692.9	3701.2	3692.9
30°	3573.2	3606.6	3659.5	3862.6	4024.0	4188.2	4224.4	4163.2	3996.2	3960.0	4001.8
32.5°	3946.1	3993.4	4090.8	4277.3	4413.6	4513.8	4538.9	4516.6	4360.8	4346.9	4374.7
35°	4399.7	4463.7	4552.8	4717.0	4828.3	5009.2	5009.2	4934.0	4792.1	4808.8	4806.0
37.5°	4878.4	4973.0	5112.1	5279.1	5429.4	5526.8	5496.2	5432.2	5290.2	5254.1	5290.2
40°	5479.5	5526.8	5702.1	5919.2	6102.8	6214.2	6083.4	5944.2	5604.7	5657.6	5755.0
42.5°	6027.7	6102.8	6236.4	6475.8	6684.5	6776.3	6620.5	6345.0	5935.9	5894.1	5966.5
45°	6495.2	6575.9	6751.3	7093.5	7313.4	7394.1	7049.0	6603.8	6136.2	6030.5	6061.1
47.5°	6806.9	6848.7	7093.5	7419.1	7619.5	7803.2	7307.8	6781.9	6230.9	6030.5	6019.4
50°	6687.2	6759.6	7046.2	7416.4	7780.9	7911.7	7438.6	6918.2	6261.5	6005.4	5972.0
52.5°	5938.7	6063.9	6383.9	6882.0	7433.1	7900.6	7619.5	6873.7	6250.3	6030.5	6080.6
55°	4132.6	4135.4	4525.0	5259.6	6233.6	7335.7	7355.1	6923.8	6322.7	6186.3	6189.1
57.5°	1661.4	1744.9	2042.6	2780.1	3679.0	5037.0	5988.7	6422.9	6331.0	6297.6	6383.9
60°	420.2	423.0	514.8	784.8	1294.0	2159.5	3136.3	4243.9	4886.7	5106.6	5137.2
62.5°	214.3	217.1	239.3	278.3	353.4	578.8	1029.7	1633.5	2323.7	2674.3	2766.2
65°	175.3	175.3	189.2	208.7	211.5	222.6	267.2	381.3	553.8	628.9	637.3
67.5°	133.6	133.6	144.7	155.8	161.4	158.6	153.1	158.6	192.0	183.7	178.1
70°	83.5	86.3	91.8	103.0	108.5	111.3	114.1	119.7	136.4	141.9	136.4
72.5°	50.1	50.1	52.9	61.2	69.6	75.1	83.5	89.1	97.4	111.3	108.5
75°	22.3	22.3	27.8	36.2	44.5	52.9	61.2	69.6	75.1	83.5	86.3
77.5°	5.6	8.3	13.9	25.0	33.4	44.5	55.7	64.0	69.6	69.6	66.8
80°	2.8	2.8	11.1	19.5	36.2	47.3	61.2	66.8	75.1	69.6	61.2
82.5°	2.8	2.8	11.1	19.5	33.4	47.3	64.0	72.4	77.9	69.6	58.4
85°	0.0	2.8	8.3	16.7	27.8	33.4	27.8	19.5	11.1	11.1	8.3
87.5°	0.0	0.0	2.8	2.8	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)