

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: P529581

Luminaire Tested: **GALN-SA4D-730-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529581
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-730-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 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: 18011 lumens
Efficiency: N/A
Efficacy: 73.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

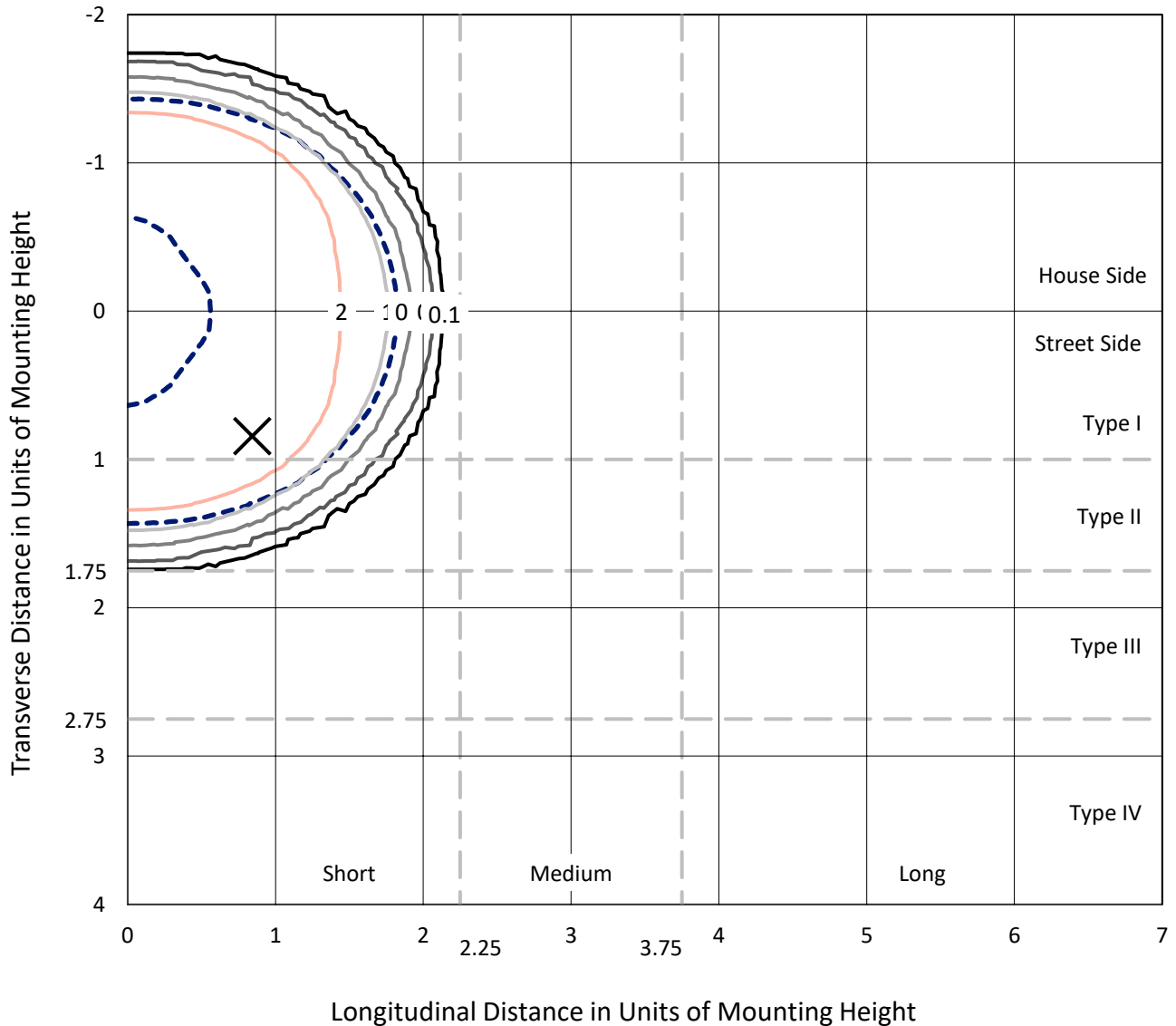
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

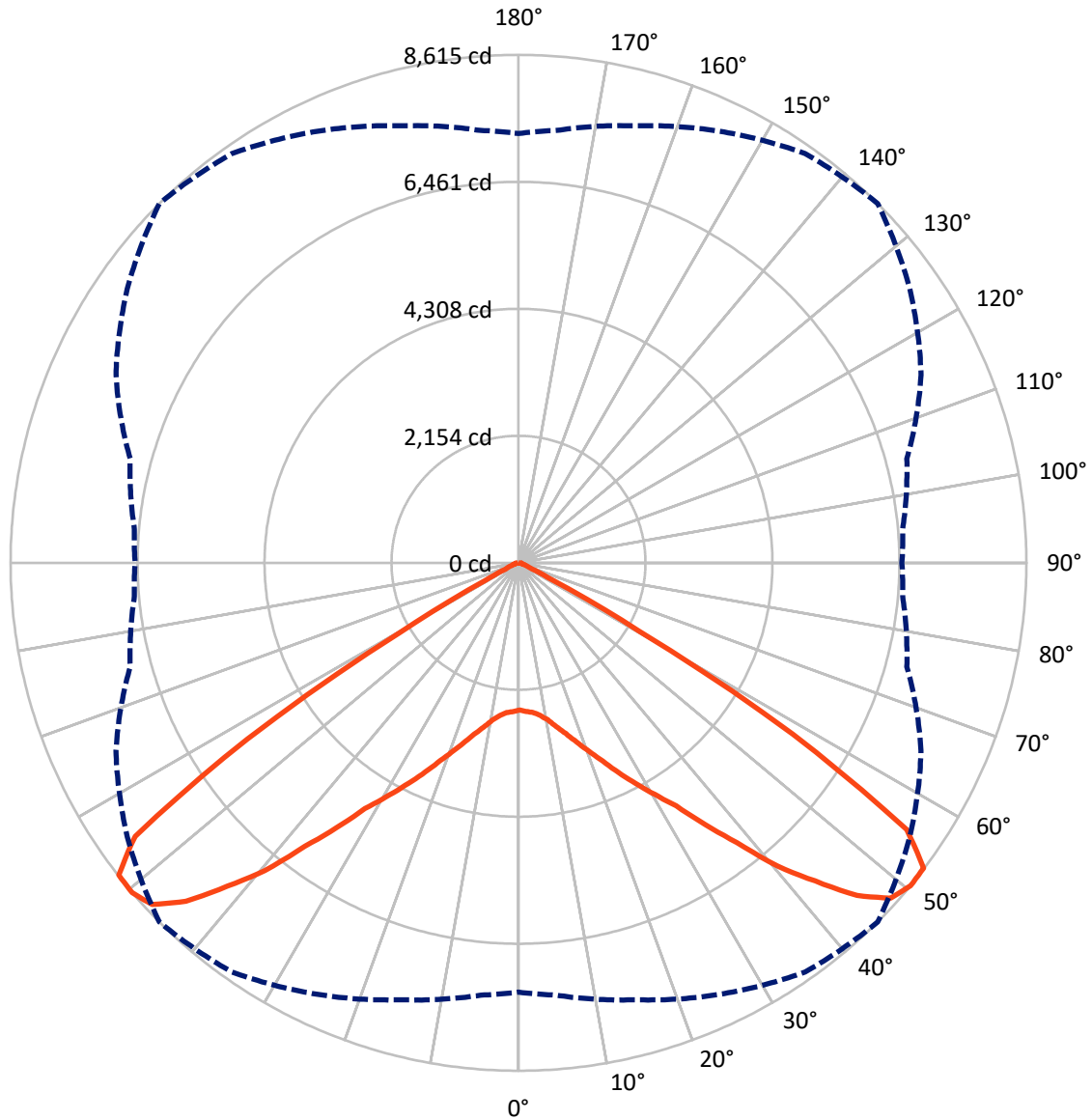
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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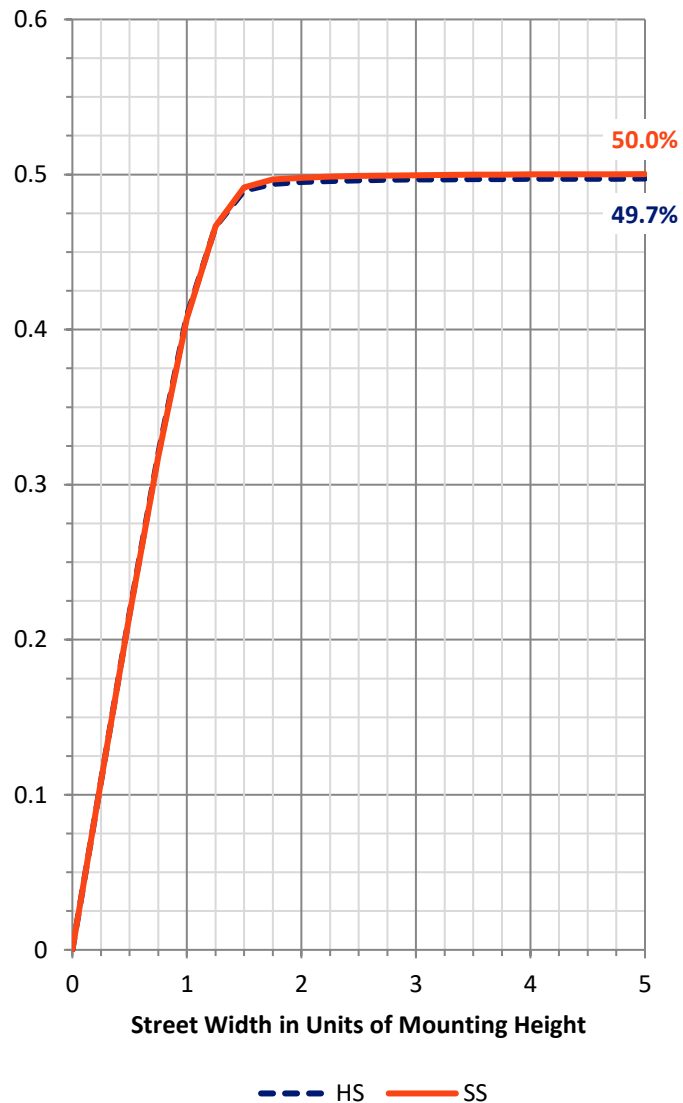
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9005.5	0.0	9005.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9005.5	0.0	9005.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	18011.0	0.0	18011.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	248.4	1.4
10°-20°	856.2	4.8
20°-30°	1748.7	9.7
30°-40°	3334.7	18.5
40°-50°	5619.5	31.2
50°-60°	5359.2	29.8
60°-70°	748.1	4.2
70°-80°	71.6	0.4
80°-90°	24.7	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°	18011.0	100.0
0°-180°	18011.0	100.0

Coefficient of Utilization

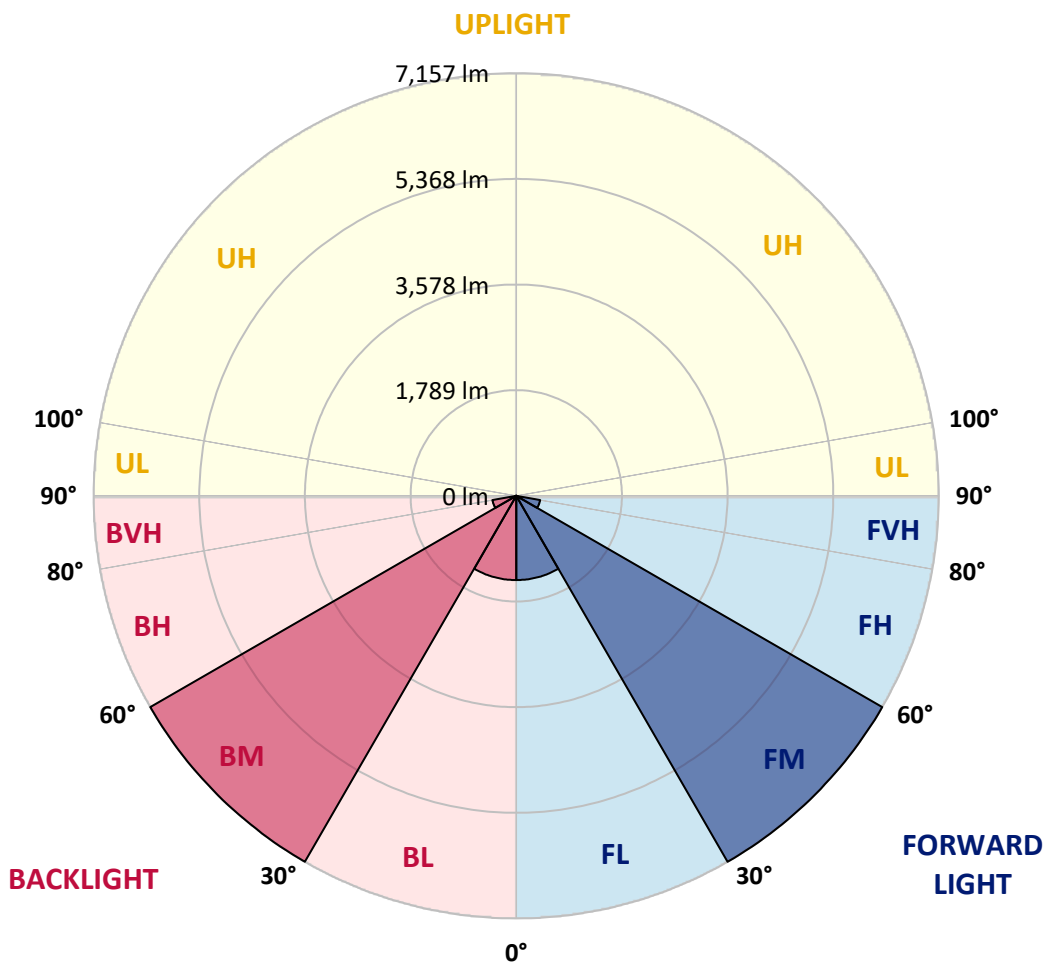


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1426.6	7.9			
FM (30°-60°)	7156.7	39.7			
FH (60°-80°)	409.8	2.3			G0/660
FVH (80°-90°)	12.4	0.1			G1/100
BL (0°-30°)	1426.6	7.9	B3/2500		
BM (30°-60°)	7156.7	39.7	B4/8500		
BH (60°-80°)	409.8	2.3	B1/500		G0/660
BVH (80°-90°)	12.4	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°	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0	2497.0
2.5°	2487.9	2487.9	2484.9	2509.1	2497.0	2524.3	2521.3	2530.4	2539.5	2536.4	2560.7
5°	2466.7	2463.7	2463.7	2491.0	2518.2	2548.5	2575.8	2594.0	2624.3	2624.3	2654.6
7.5°	2487.9	2472.8	2494.0	2506.1	2557.6	2609.2	2654.6	2691.0	2760.7	2784.9	2775.8
10°	2494.0	2512.2	2527.3	2563.7	2627.3	2706.1	2745.5	2836.4	2915.2	2969.8	2981.9
12.5°	2533.4	2560.7	2603.1	2691.0	2748.5	2851.6	2906.1	2994.0	3103.1	3163.7	3206.1
15°	2609.2	2618.2	2672.8	2784.9	2909.2	3003.1	3087.9	3151.6	3257.7	3327.3	3330.4
17.5°	2706.1	2745.5	2821.3	2927.3	3057.6	3197.0	3263.7	3333.4	3372.8	3466.7	3488.0
20°	2900.1	2906.1	2978.9	3118.3	3281.9	3409.2	3457.7	3494.0	3478.9	3575.8	3594.0
22.5°	3081.9	3087.9	3178.9	3366.7	3542.5	3651.6	3672.8	3651.6	3606.1	3675.8	3681.9
25°	3266.7	3321.3	3388.0	3575.8	3794.0	3939.5	3942.5	3884.9	3791.0	3803.1	3833.4
27.5°	3554.6	3594.0	3663.7	3836.5	4075.9	4239.5	4212.2	4142.5	4021.3	4030.4	4021.3
30°	3891.0	3927.4	3984.9	4206.2	4381.9	4560.7	4600.1	4533.4	4351.6	4312.2	4357.7
32.5°	4297.1	4348.6	4454.6	4657.7	4806.2	4915.3	4942.5	4918.3	4748.6	4733.4	4763.7
35°	4791.0	4860.7	4957.7	5136.5	5257.7	5454.7	5454.7	5372.9	5218.3	5236.5	5233.5
37.5°	5312.2	5415.3	5566.8	5748.6	5912.3	6018.3	5985.0	5915.3	5760.7	5721.3	5760.7
40°	5966.8	6018.3	6209.2	6445.6	6645.6	6766.8	6624.4	6472.9	6103.2	6160.7	6266.8
42.5°	6563.8	6645.6	6791.1	7051.7	7279.0	7379.0	7209.3	6909.2	6463.8	6418.3	6497.1
45°	7072.9	7160.8	7351.7	7724.4	7963.8	8051.7	7675.9	7191.1	6682.0	6566.8	6600.2
47.5°	7412.3	7457.7	7724.4	8079.0	8297.2	8497.2	7957.8	7385.0	6785.0	6566.8	6554.7
50°	7282.0	7360.8	7672.9	8075.9	8472.9	8615.3	8100.2	7533.5	6818.3	6539.5	6503.2
52.5°	6466.8	6603.2	6951.7	7494.1	8094.1	8603.2	8297.2	7485.0	6806.2	6566.8	6621.4
55°	4500.1	4503.1	4927.4	5727.4	6788.0	7988.1	8009.3	7539.6	6885.0	6736.5	6739.5
57.5°	1809.1	1900.0	2224.3	3027.3	4006.2	5485.0	6521.4	6994.1	6894.1	6857.7	6951.7
60°	457.6	460.6	560.6	854.6	1409.1	2351.6	3415.2	4621.3	5321.3	5560.7	5594.1
62.5°	233.3	236.4	260.6	303.0	384.9	630.3	1121.2	1778.8	2530.4	2912.2	3012.2
65°	190.9	190.9	206.1	227.3	230.3	242.4	290.9	415.2	603.0	684.9	694.0
67.5°	145.5	145.5	157.6	169.7	175.8	172.7	166.7	172.7	209.1	200.0	193.9
70°	90.9	93.9	100.0	112.1	118.2	121.2	124.2	130.3	148.5	154.5	148.5
72.5°	54.5	54.5	57.6	66.7	75.8	81.8	90.9	97.0	106.1	121.2	118.2
75°	24.2	24.2	30.3	39.4	48.5	57.6	66.7	75.8	81.8	90.9	93.9
77.5°	6.1	9.1	15.2	27.3	36.4	48.5	60.6	69.7	75.8	75.8	72.7
80°	3.0	3.0	12.1	21.2	39.4	51.5	66.7	72.7	81.8	75.8	66.7
82.5°	3.0	3.0	12.1	21.2	36.4	51.5	69.7	78.8	84.9	75.8	63.6
85°	0.0	3.0	9.1	18.2	30.3	36.4	30.3	21.2	12.1	12.1	9.1
87.5°	0.0	0.0	3.0	3.0	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)