

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: P453240

Luminaire Tested: **GALN-SA4B-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453240
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-SA4B-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21151 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

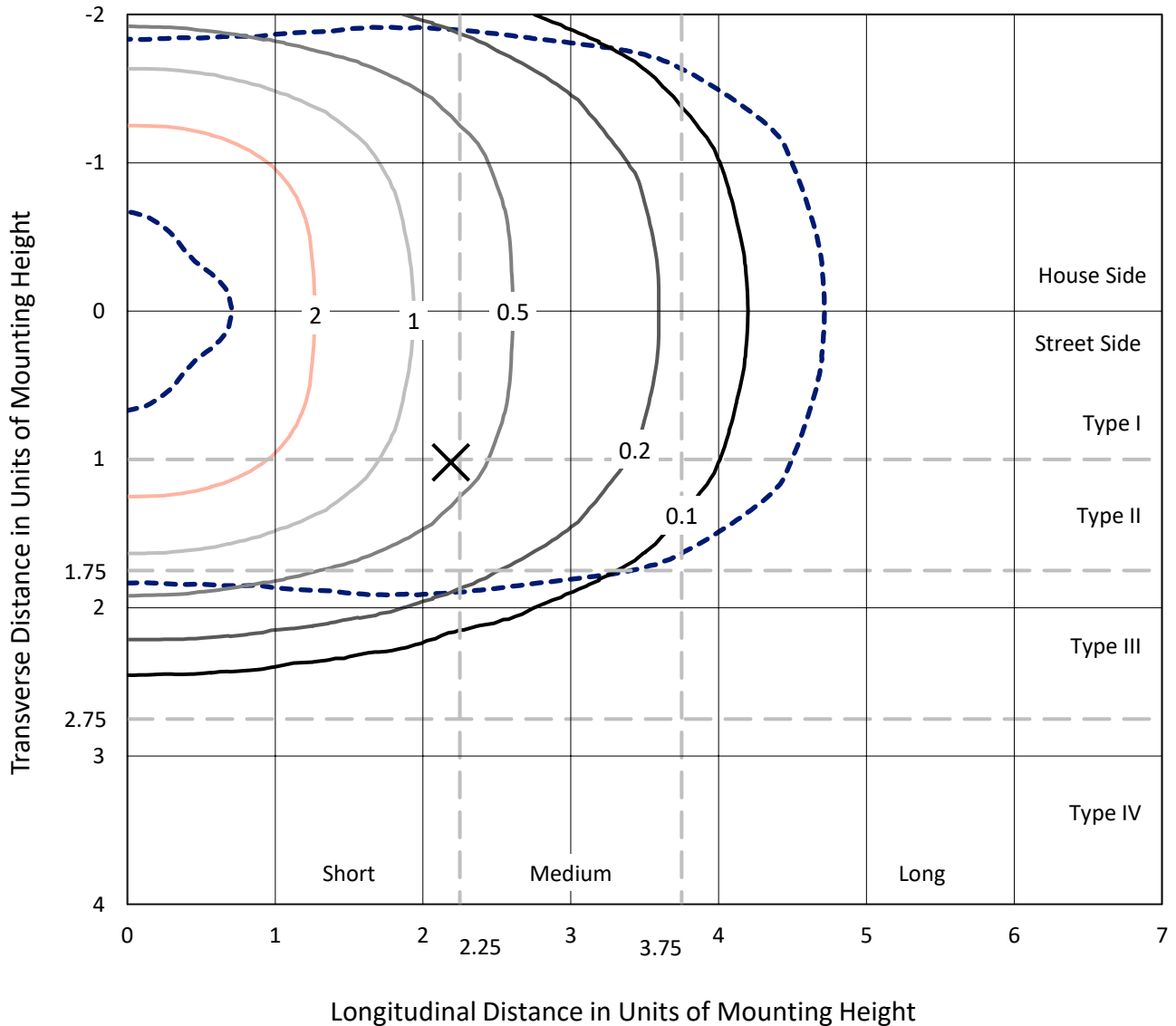
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

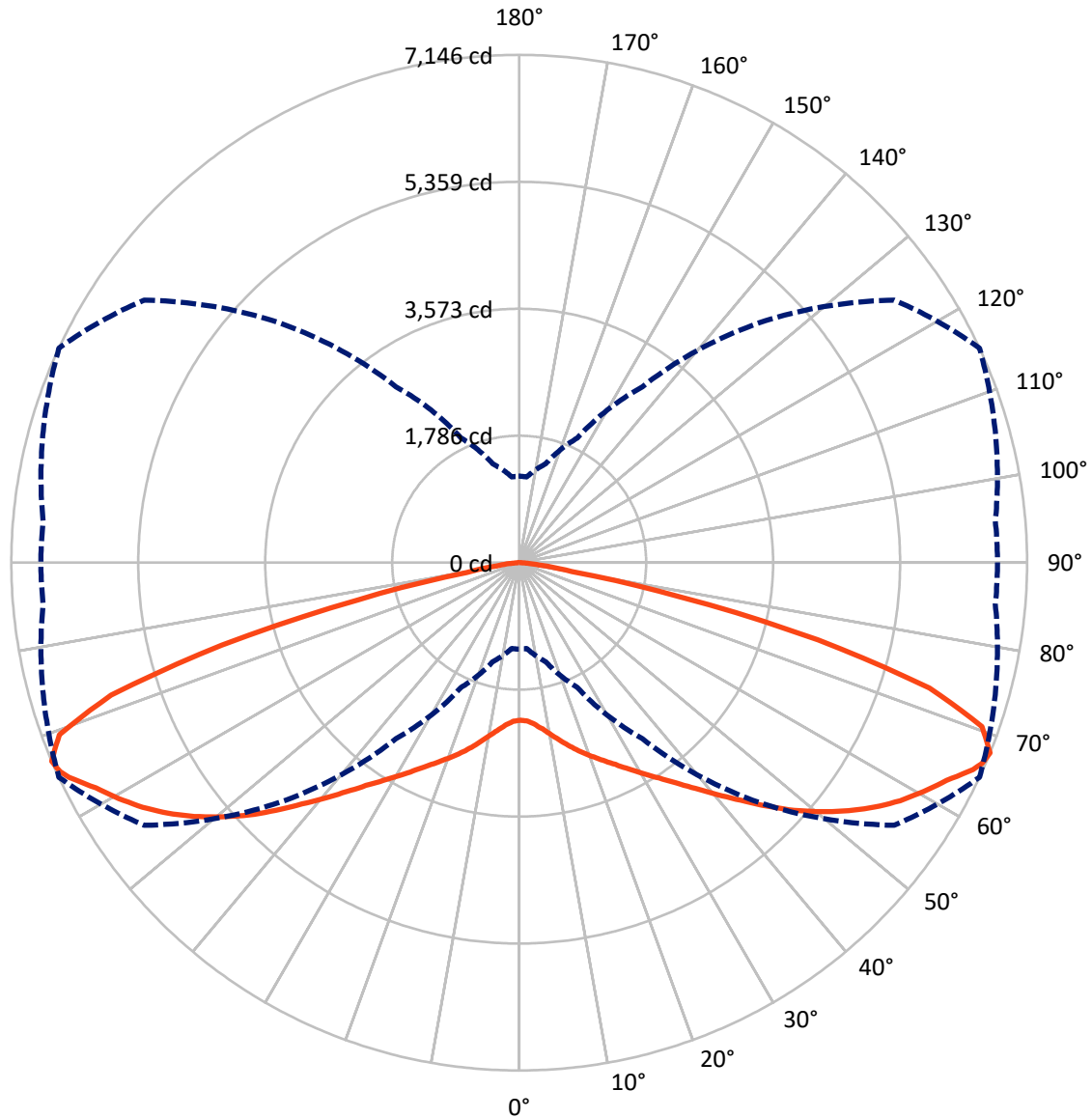
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 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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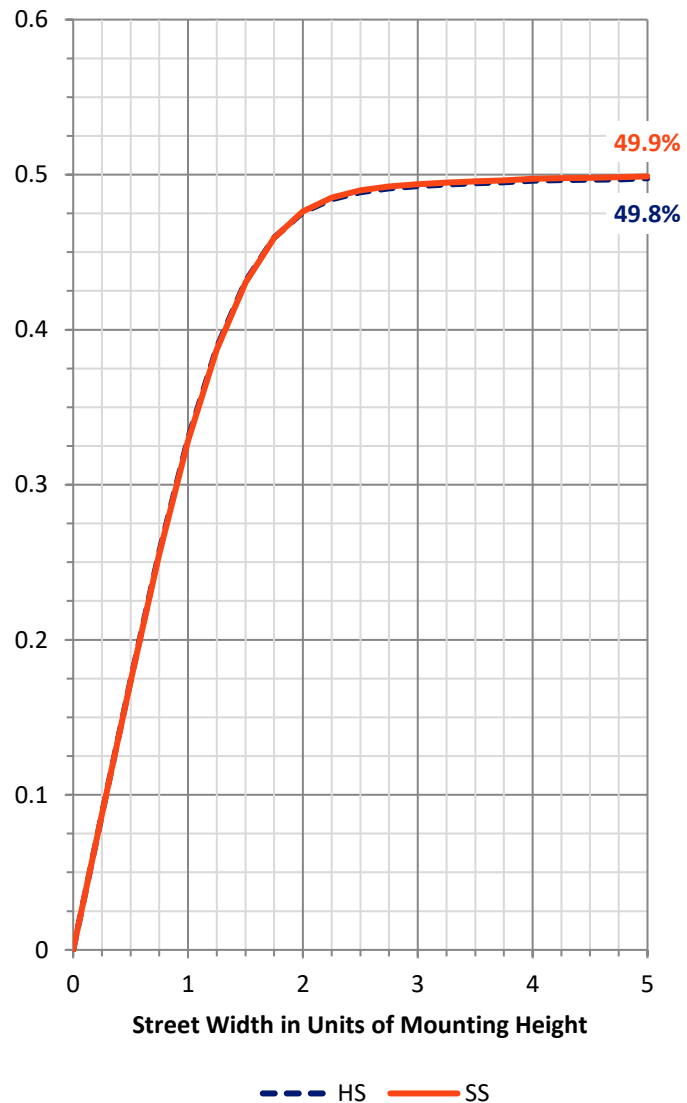
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10575.5	0.0	10575.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10575.5	0.0	10575.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21151.0	0.0	21151.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	218.5	1.0
10°-20°	731.3	3.5
20°-30°	1430.5	6.8
30°-40°	2433.0	11.5
40°-50°	3850.7	18.2
50°-60°	5106.0	24.1
60°-70°	4816.5	22.8
70°-80°	2381.0	11.3
80°-90°	183.5	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°	21151.0	100.0
0°-180°	21151.0	100.0



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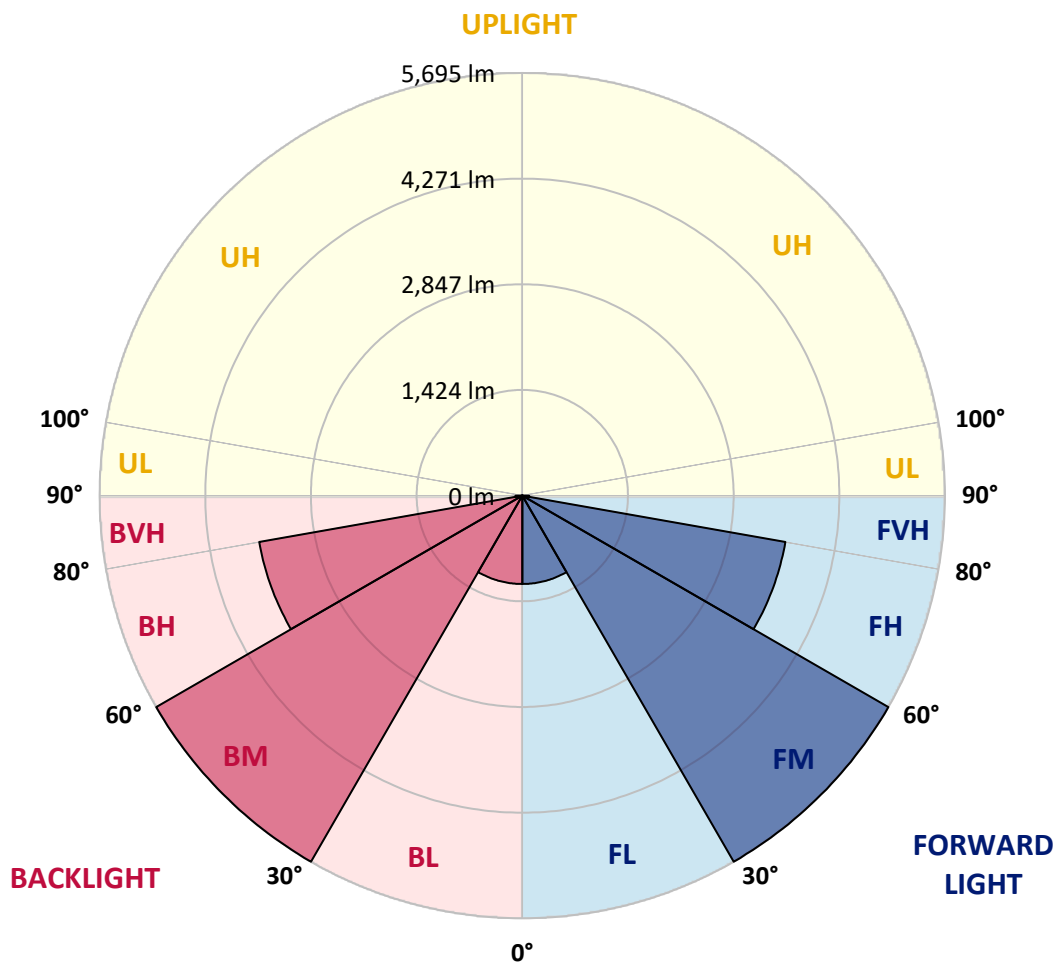
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1190.1	5.6			
FM	(30°-60°)	5694.9	26.9			
FH	(60°-80°)	3598.8	17.0			G2/5000
FVH	(80°-90°)	91.8	0.4			G1/100
BL	(0°-30°)	1190.1	5.6	B3/2500		
BM	(30°-60°)	5694.9	26.9	B4/8500		
BH	(60°-80°)	3598.8	17.0	B4/5000		G4/5000
BVH	(80°-90°)	91.8	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°	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4	2215.4
2.5°	2204.0	2206.3	2208.6	2212.0	2216.5	2223.3	2227.8	2231.2	2240.3	2241.4	2240.3
5°	2196.1	2198.4	2204.0	2214.2	2229.0	2249.4	2265.2	2284.5	2299.2	2309.4	2307.2
7.5°	2195.0	2199.5	2208.6	2230.1	2258.4	2293.6	2329.8	2362.7	2391.0	2413.7	2410.3
10°	2213.1	2218.8	2233.5	2265.2	2309.4	2360.4	2411.4	2460.1	2500.9	2530.4	2540.6
12.5°	2243.7	2248.2	2275.4	2323.0	2386.5	2450.0	2507.7	2567.8	2624.5	2674.3	2674.3
15°	2297.0	2304.9	2338.9	2408.0	2486.2	2559.9	2618.8	2682.3	2743.4	2800.1	2817.1
17.5°	2370.6	2382.0	2433.0	2521.3	2621.1	2689.1	2744.6	2796.7	2850.0	2904.4	2912.3
20°	2471.5	2482.8	2550.8	2657.3	2775.2	2856.8	2894.2	2906.6	2932.7	2984.8	2991.6
22.5°	2608.6	2619.9	2695.9	2816.0	2947.4	3035.8	3051.7	3022.2	3015.4	3056.2	3060.7
25°	2763.8	2774.0	2861.3	2990.5	3126.5	3222.8	3218.3	3145.7	3104.9	3129.9	3136.7
27.5°	2938.4	2953.1	3041.5	3175.2	3322.5	3407.5	3393.9	3288.5	3201.3	3196.7	3199.0
30°	3161.6	3177.5	3261.3	3389.4	3534.4	3612.6	3584.3	3442.6	3307.8	3262.4	3262.4
32.5°	3397.3	3437.0	3521.9	3655.7	3769.0	3825.6	3782.6	3612.6	3433.6	3370.1	3366.7
35°	3704.4	3725.9	3809.8	3940.1	4025.1	4069.3	3986.6	3804.1	3597.9	3523.1	3512.9
37.5°	4004.7	4022.8	4120.3	4244.9	4348.0	4345.8	4233.6	4031.9	3801.8	3718.0	3711.2
40°	4311.8	4331.0	4442.1	4556.5	4659.7	4650.6	4514.6	4289.1	4044.3	3950.3	3968.4
42.5°	4578.1	4599.6	4725.4	4888.6	4981.5	4979.2	4821.7	4567.9	4312.9	4229.1	4244.9
45°	4820.6	4839.8	4986.0	5173.0	5309.0	5326.0	5153.7	4885.2	4623.4	4515.8	4520.3
47.5°	4991.7	5028.0	5180.9	5395.1	5579.8	5639.9	5471.0	5208.1	4906.7	4794.5	4801.3
50°	5122.0	5144.7	5311.2	5554.9	5788.3	5913.0	5777.0	5507.3	5190.0	5071.0	5086.9
52.5°	5137.9	5165.1	5346.4	5627.4	5926.6	6115.8	6049.0	5799.7	5479.0	5356.6	5390.6
55°	5008.7	5024.6	5241.0	5582.1	5981.0	6266.5	6283.5	6071.6	5754.3	5661.4	5684.1
57.5°	4640.4	4681.2	4955.4	5370.2	5906.2	6347.0	6459.2	6318.7	6033.1	5941.3	5977.6
60°	4036.4	4077.2	4352.6	4878.4	5624.0	6309.6	6604.2	6537.4	6285.8	6212.1	6231.4
62.5°	3162.7	3159.3	3500.4	4145.2	5063.1	6126.0	6711.9	6748.1	6535.1	6442.2	6471.6
65°	2049.9	2060.1	2389.9	3084.5	4216.6	5659.1	6735.7	7016.7	6779.9	6639.3	6660.9
66°	1648.8	1679.4	1959.3	2599.5	3784.8	5353.2	6664.3	7096.0	6854.6	6684.7	6694.9
67.5°	1217.0	1211.4	1441.4	1935.5	3022.2	4771.9	6441.0	7145.9	6939.6	6725.5	6730.0
70°	694.6	693.5	775.1	1062.9	1776.8	3359.9	5429.1	6906.8	7111.9	6872.8	6860.3
72.5°	507.7	504.3	515.6	587.0	866.9	1696.4	3745.2	6036.5	7023.5	6849.0	6813.9
75°	426.1	423.8	421.5	430.6	486.1	768.3	1987.6	4342.4	6094.3	6428.6	6392.3
77.5°	347.9	347.9	349.0	346.8	349.0	404.5	823.8	2327.6	3711.2	4142.9	4243.8
80°	272.0	270.8	290.1	282.2	264.0	259.5	364.9	749.0	1231.8	1225.0	1010.8
82.5°	200.6	187.0	221.0	215.3	194.9	165.4	213.0	319.6	411.3	267.4	198.3
85°	126.9	125.8	156.4	142.8	119.0	78.2	102.0	137.1	170.0	103.1	83.9
87.5°	22.7	21.5	49.9	36.3	36.3	22.7	28.3	37.4	55.5	38.5	28.3
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)