

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: P453236

Luminaire Tested: **GALN-SA4B-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
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-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21394 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

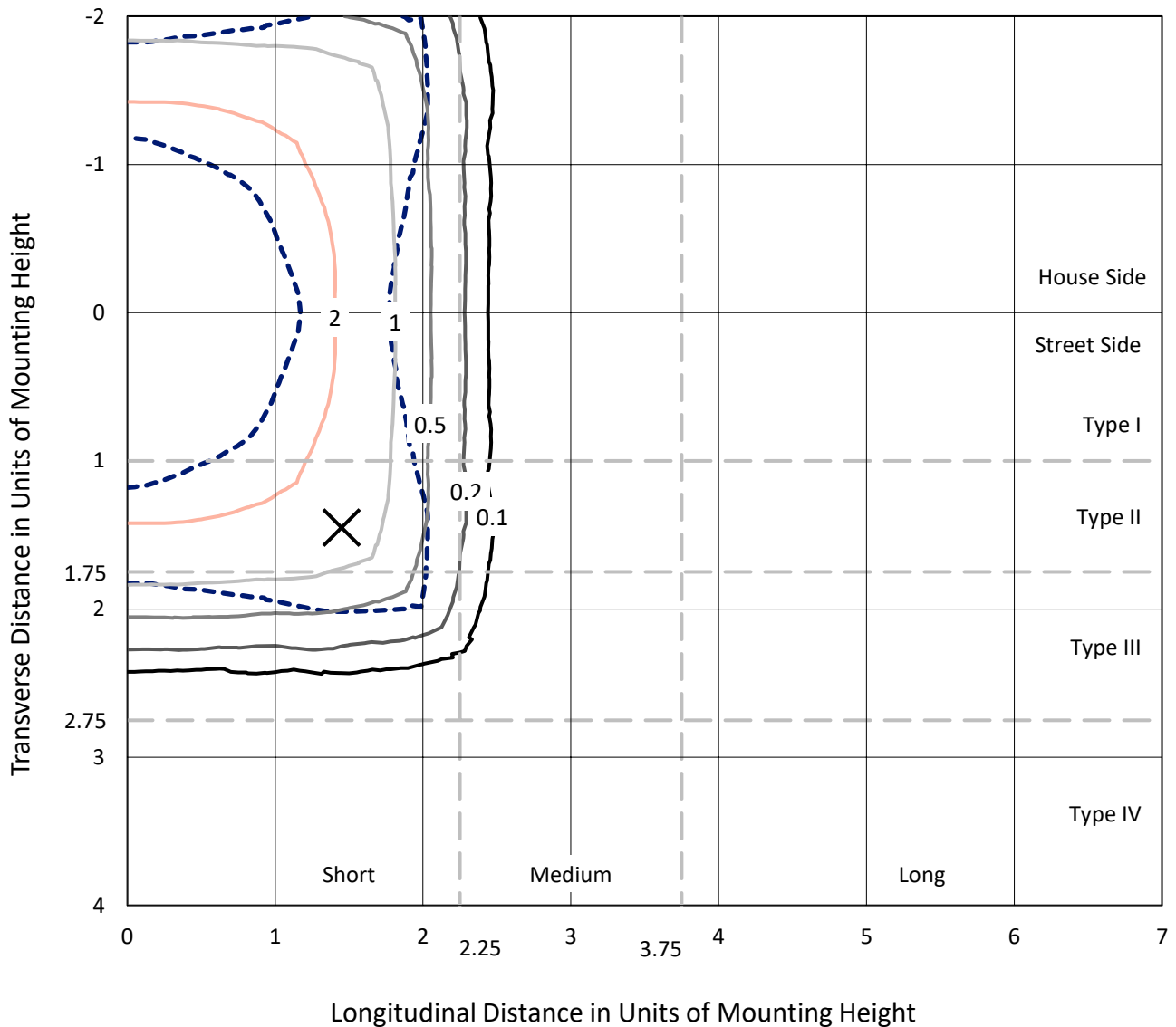
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

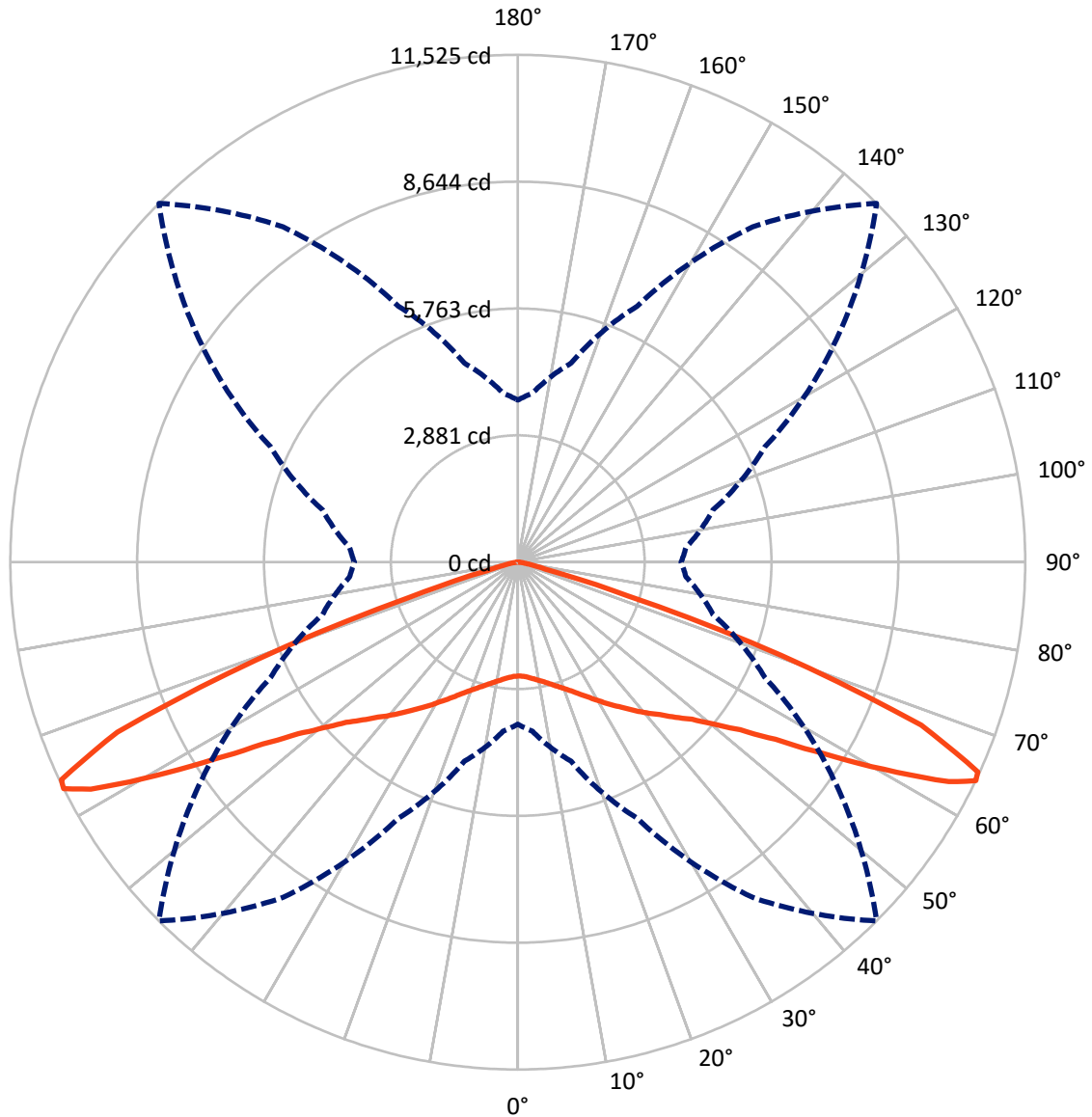
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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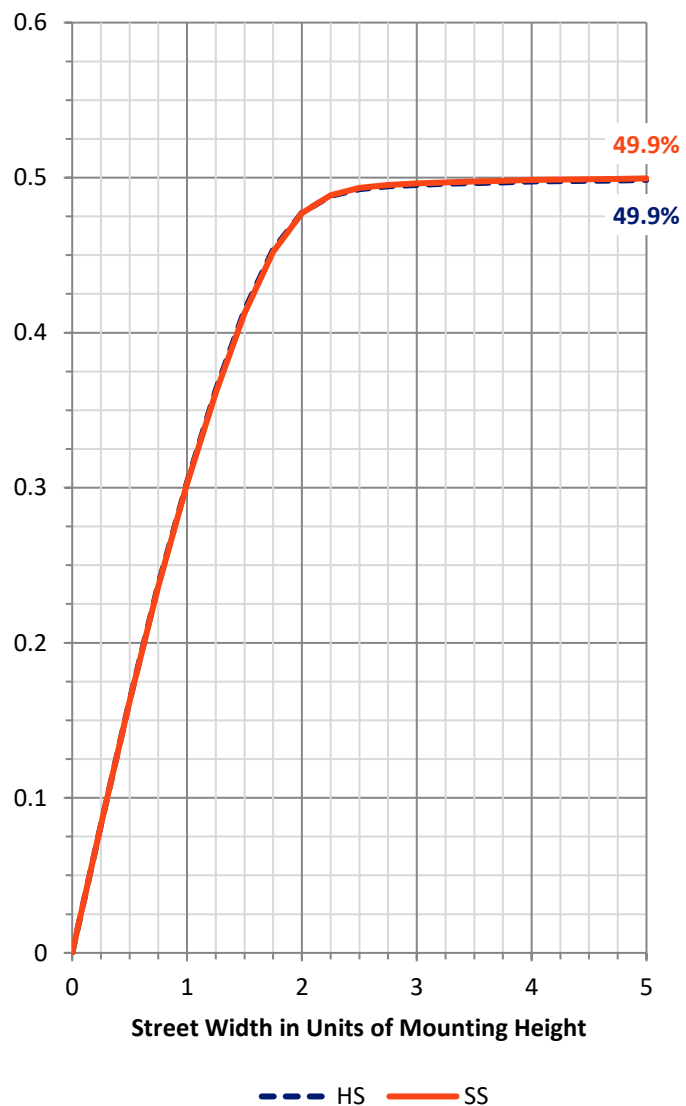
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10697.0	0.0	10697.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10697.0	0.0	10697.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21394.0	0.0	21394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.0	1.2
10°-20°	819.4	3.8
20°-30°	1548.5	7.2
30°-40°	2564.5	12.0
40°-50°	4003.6	18.7
50°-60°	6189.5	28.9
60°-70°	5337.1	24.9
70°-80°	604.8	2.8
80°-90°	72.5	0.3
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°	21394.0	100.0
0°-180°	21394.0	100.0

Coefficient of Utilization



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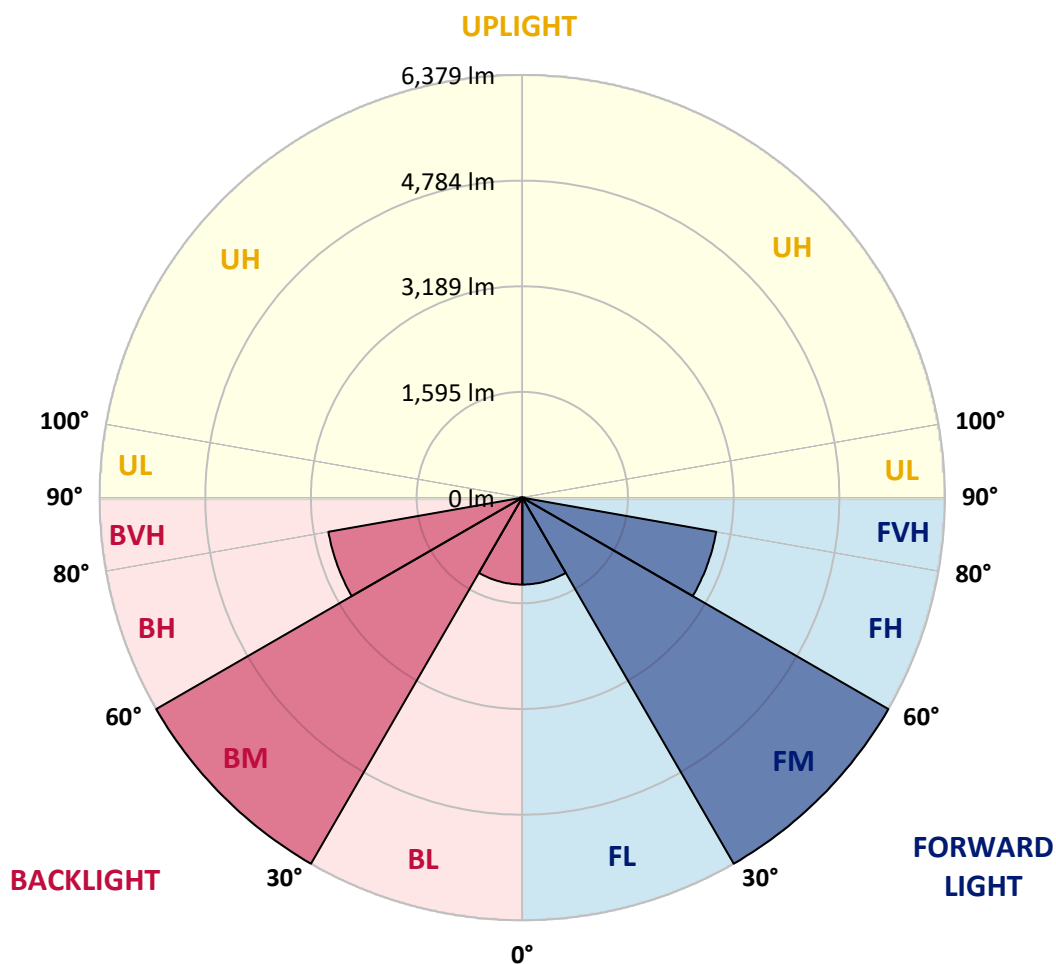
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1311.0	6.1			
FM	(30°-60°)	6378.8	29.8			
FH	(60°-80°)	2971.0	13.9			G2/5000
FVH	(80°-90°)	36.2	0.2			G1/100
BL	(0°-30°)	1311.0	6.1	B3/2500		
BM	(30°-60°)	6378.8	29.8	B4/8500		
BH	(60°-80°)	2971.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	36.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2585.8	2585.8	2585.8	2585.8	2585.8	2585.8	2585.8	2585.8	2585.8	2585.8	2585.8
2.5°	2596.0	2601.7	2597.2	2596.0	2594.9	2594.9	2594.9	2596.0	2600.6	2604.0	2601.7
5°	2628.9	2633.4	2631.2	2630.0	2628.9	2630.0	2627.8	2626.6	2630.0	2630.0	2628.9
7.5°	2669.7	2675.3	2673.1	2675.3	2676.5	2677.6	2671.9	2667.4	2666.3	2669.7	2667.4
10°	2725.2	2729.7	2730.9	2732.0	2734.3	2733.1	2726.3	2718.4	2717.3	2716.1	2715.0
12.5°	2787.5	2790.9	2792.1	2796.6	2800.0	2801.1	2793.2	2786.4	2775.1	2777.3	2772.8
15°	2857.8	2864.6	2863.4	2870.2	2879.3	2881.6	2873.6	2862.3	2852.1	2846.4	2843.0
17.5°	2943.9	2948.4	2946.2	2953.0	2964.3	2970.0	2963.2	2948.4	2938.2	2925.8	2919.0
20°	3045.9	3053.8	3056.1	3056.1	3066.3	3071.9	3061.7	3057.2	3041.3	3032.3	3026.6
22.5°	3161.5	3164.9	3171.7	3178.5	3188.7	3186.4	3183.0	3176.2	3161.5	3153.5	3144.5
25°	3291.8	3295.2	3312.2	3326.9	3330.3	3328.0	3323.5	3320.1	3306.5	3288.4	3281.6
27.5°	3443.6	3450.4	3473.1	3486.7	3486.7	3487.8	3478.7	3490.1	3460.6	3439.1	3436.8
30°	3634.0	3638.5	3657.8	3671.4	3664.6	3658.9	3656.6	3668.0	3636.2	3597.7	3588.7
32.5°	3822.1	3837.9	3854.9	3884.4	3860.6	3850.4	3848.1	3856.1	3819.8	3776.8	3764.3
35°	4023.8	4035.1	4066.8	4091.8	4070.2	4046.4	4056.6	4081.6	4038.5	3980.7	3978.5
37.5°	4247.0	4257.2	4298.0	4324.1	4308.2	4267.4	4284.4	4313.9	4270.8	4199.4	4184.7
40°	4479.3	4500.8	4551.8	4579.0	4553.0	4498.6	4530.3	4562.0	4523.5	4440.8	4407.9
42.5°	4739.9	4773.9	4847.6	4861.2	4811.3	4737.7	4793.2	4844.2	4817.0	4721.8	4709.3
45°	5044.7	5065.1	5155.8	5185.2	5116.1	5024.3	5093.5	5186.4	5166.0	5056.1	5032.3
47.5°	5385.8	5405.1	5499.1	5543.3	5456.1	5332.6	5457.2	5578.4	5566.0	5448.1	5436.8
50°	5789.2	5793.7	5924.1	5973.9	5886.7	5780.1	5891.2	6041.9	5992.0	5841.3	5839.1
52.5°	6231.1	6236.8	6401.1	6497.4	6448.7	6328.6	6460.0	6551.8	6424.9	6227.7	6213.0
55°	6614.1	6642.5	6866.8	7122.9	7189.8	7102.5	7142.2	7099.1	6786.4	6509.9	6466.8
57.5°	6770.5	6826.0	7167.1	7645.3	8080.4	8209.6	7903.6	7493.5	6930.3	6539.3	6497.4
60°	6388.6	6448.7	6977.9	7885.5	8996.0	9556.9	8696.8	7560.3	6602.8	6053.2	5987.5
62.5°	5116.1	5133.1	5911.6	7320.1	9529.7	10982.4	9031.1	6990.3	5649.8	4903.1	4877.0
64°	3681.6	3856.1	4681.0	6418.1	9296.3	11525.2	8838.5	6191.5	4589.2	3833.4	3711.0
65°	2753.5	2801.1	3773.4	5481.0	8884.9	11484.4	8464.6	5427.7	3800.6	2933.7	2797.7
67.5°	1040.2	1045.9	1392.6	2732.0	6325.2	9881.0	6460.0	2953.0	1601.1	1158.1	1116.1
70°	431.7	439.7	511.0	919.0	2718.4	6344.4	3115.0	1065.2	585.8	474.8	468.0
72.5°	316.1	320.7	342.2	407.9	836.3	2605.1	1024.4	452.1	343.3	307.1	303.7
75°	248.2	250.4	266.3	300.3	389.8	721.8	426.1	310.5	261.8	235.7	233.4
77.5°	189.2	194.9	206.2	228.9	261.8	342.2	282.2	232.3	201.7	180.2	176.8
80°	130.3	137.1	158.6	167.7	175.6	222.1	192.6	175.6	157.5	131.4	123.5
82.5°	80.5	85.0	106.5	114.4	111.0	124.6	123.5	125.8	112.2	81.6	75.9
85°	41.9	44.2	57.8	60.1	55.5	51.0	63.5	73.7	69.1	46.5	45.3
87.5°	9.1	10.2	12.5	11.3	12.5	12.5	15.9	23.8	24.9	15.9	14.7
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)