

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: P453932

Luminaire Tested: **GALN-SA5A-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453932
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-SA5A-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21767 lumens
Efficiency: N/A
Efficacy: 141.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

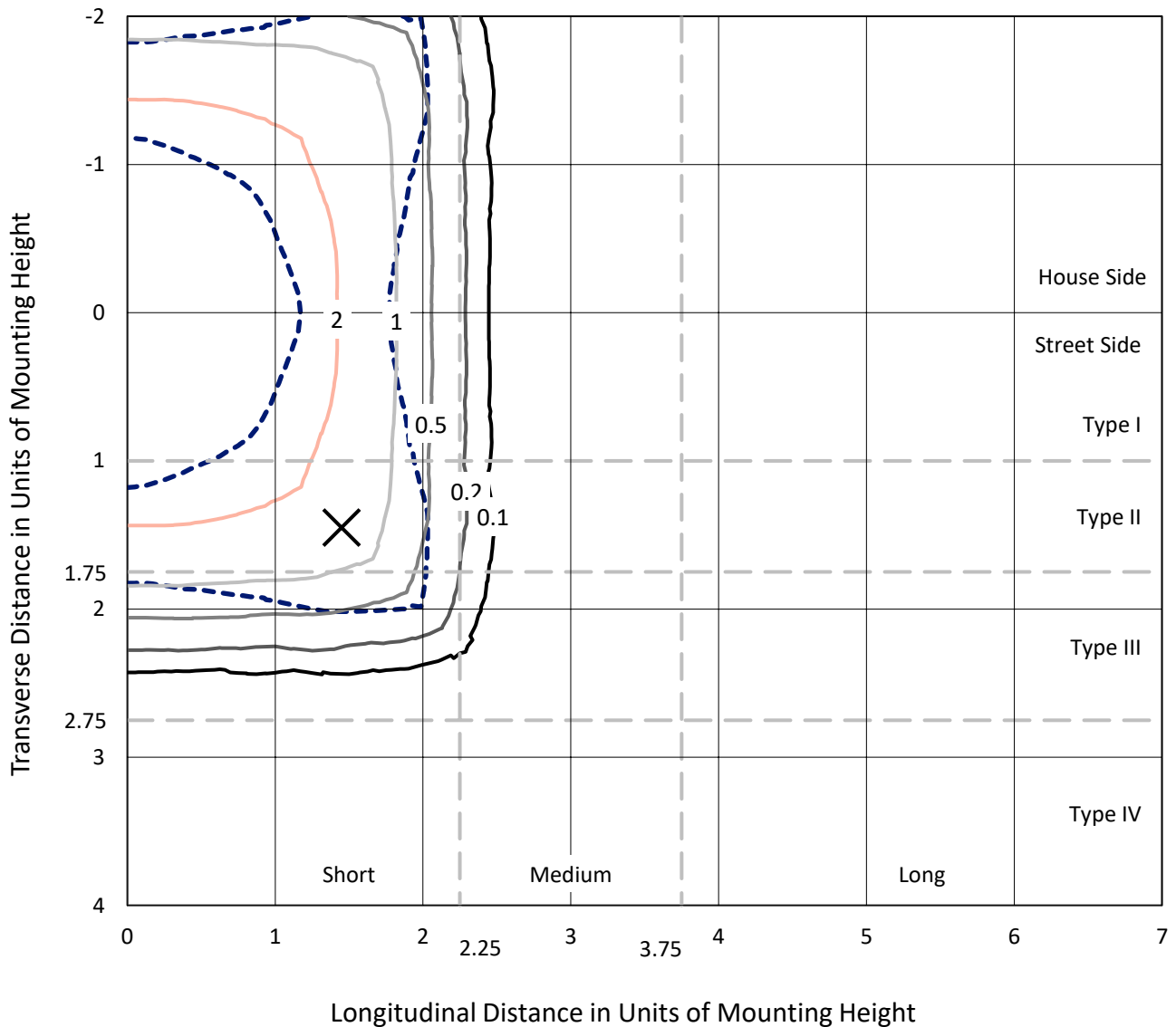
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

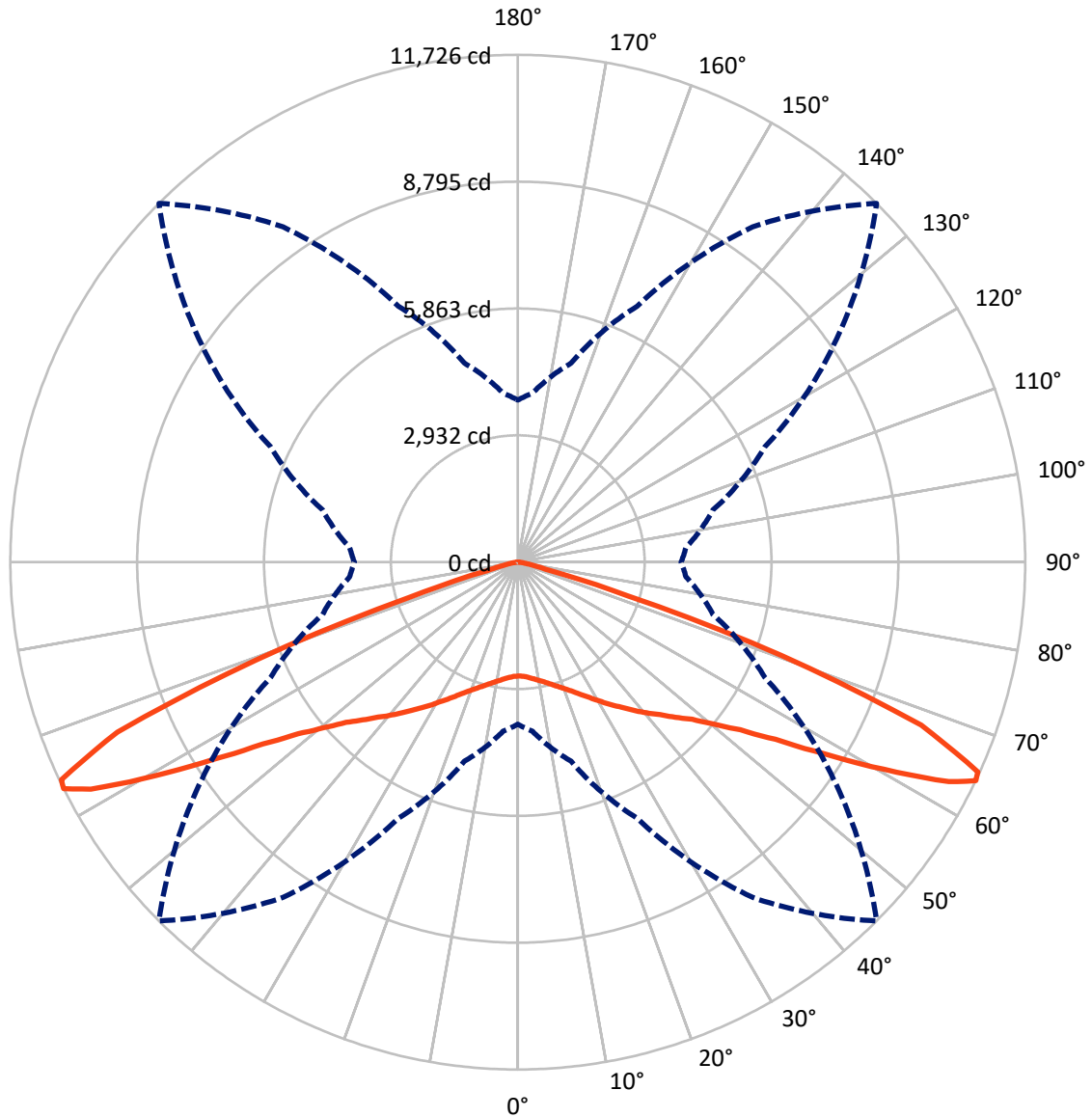
× Max cd
 - - - 1/2 Max cd



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	10883.5	0.0	10883.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10883.5	0.0	10883.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21767.0	0.0	21767.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.5	1.2
10°-20°	833.7	3.8
20°-30°	1575.5	7.2
30°-40°	2609.2	12.0
40°-50°	4073.4	18.7
50°-60°	6297.4	28.9
60°-70°	5430.2	24.9
70°-80°	615.4	2.8
80°-90°	73.7	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°	21767.0	100.0
0°-180°	21767.0	100.0



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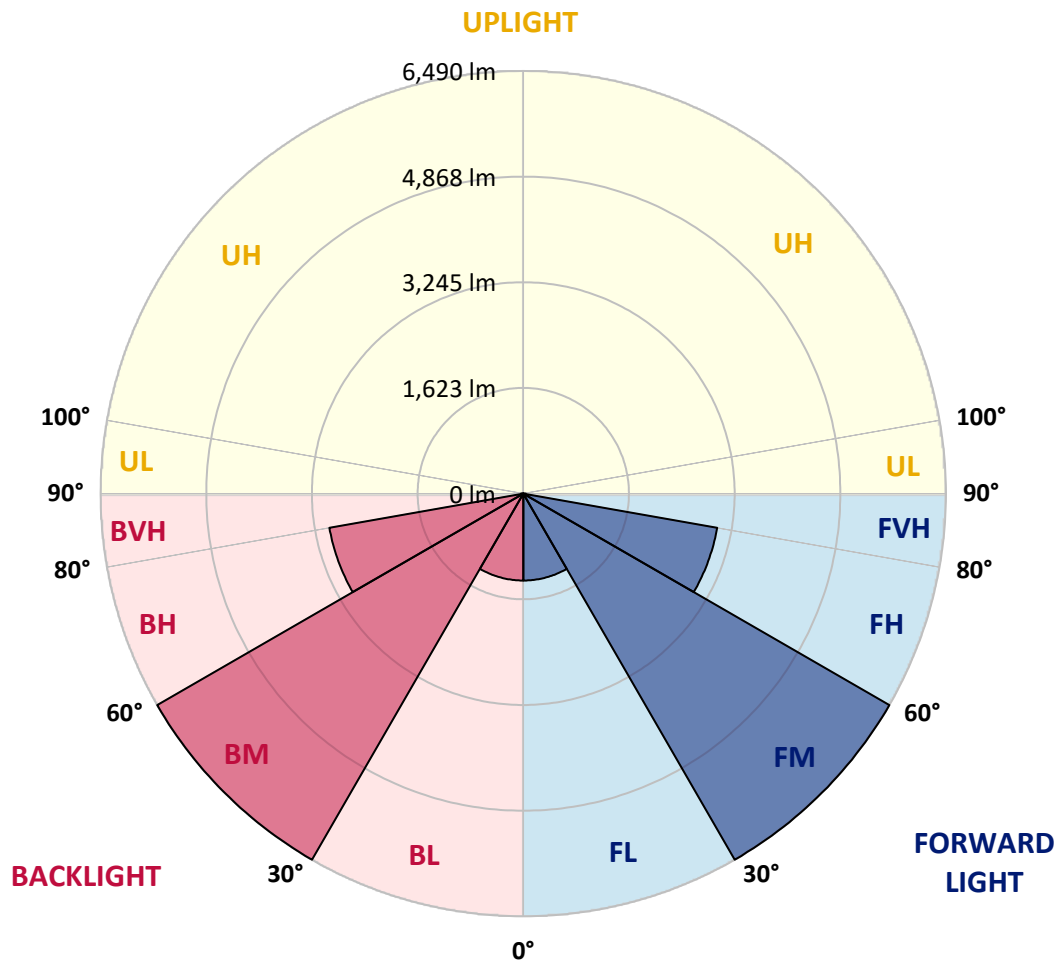
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1333.8	6.1			
FM (30°-60°)	6490.0	29.8			
FH (60°-80°)	3022.8	13.9			G2/5000
FVH (80°-90°)	36.9	0.2			G1/100
BL (0°-30°)	1333.8	6.1	B3/2500		
BM (30°-60°)	6490.0	29.8	B4/8500		
BH (60°-80°)	3022.8	13.9	B4/5000		G2/5000
BVH (80°-90°)	36.9	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°	2630.9	2630.9	2630.9	2630.9	2630.9	2630.9	2630.9	2630.9	2630.9	2630.9	2630.9
2.5°	2641.3	2647.0	2642.4	2641.3	2640.1	2640.1	2640.1	2641.3	2645.9	2649.4	2647.0
5°	2674.7	2679.3	2677.0	2675.9	2674.7	2675.9	2673.6	2672.4	2675.9	2675.9	2674.7
7.5°	2716.2	2722.0	2719.7	2722.0	2723.1	2724.3	2718.5	2713.9	2712.8	2716.2	2713.9
10°	2772.7	2777.3	2778.5	2779.6	2781.9	2780.8	2773.9	2765.8	2764.6	2763.5	2762.3
12.5°	2836.1	2839.6	2840.7	2845.3	2848.8	2850.0	2841.9	2835.0	2823.4	2825.7	2821.1
15°	2907.6	2914.5	2913.4	2920.3	2929.5	2931.8	2923.7	2912.2	2901.8	2896.1	2892.6
17.5°	2995.2	2999.8	2997.5	3004.4	3016.0	3021.7	3014.8	2999.8	2989.5	2976.8	2969.9
20°	3099.0	3107.1	3109.4	3109.4	3119.7	3125.5	3115.1	3110.5	3094.4	3085.1	3079.4
22.5°	3216.6	3220.0	3227.0	3233.9	3244.2	3241.9	3238.5	3231.6	3216.6	3208.5	3199.3
25°	3349.2	3352.6	3369.9	3384.9	3388.4	3386.1	3381.4	3378.0	3364.1	3345.7	3338.8
27.5°	3503.7	3510.6	3533.6	3547.5	3547.5	3548.6	3539.4	3550.9	3520.9	3499.0	3496.7
30°	3697.3	3701.9	3721.5	3735.4	3728.5	3722.7	3720.4	3731.9	3699.6	3660.4	3651.2
32.5°	3888.7	3904.9	3922.2	3952.1	3927.9	3917.5	3915.2	3923.3	3886.4	3842.6	3829.9
35°	4093.9	4105.5	4137.7	4163.1	4141.2	4117.0	4127.4	4152.7	4108.9	4050.1	4047.8
37.5°	4321.1	4331.4	4372.9	4399.4	4383.3	4341.8	4359.1	4389.1	4345.3	4272.6	4257.6
40°	4557.4	4579.3	4631.2	4658.9	4632.3	4577.0	4609.3	4641.6	4602.4	4518.2	4484.8
42.5°	4822.6	4857.1	4932.1	4945.9	4895.2	4820.3	4876.7	4928.6	4901.0	4804.1	4791.4
45°	5132.7	5153.4	5245.7	5275.7	5205.3	5111.9	5182.3	5276.8	5256.1	5144.2	5120.0
47.5°	5479.7	5499.3	5595.0	5640.0	5551.2	5425.5	5552.3	5675.7	5663.0	5543.1	5531.6
50°	5890.1	5894.8	6027.3	6078.1	5989.3	5880.9	5993.9	6147.2	6096.5	5943.2	5940.9
52.5°	6339.8	6345.5	6512.7	6610.7	6561.1	6438.9	6572.7	6666.0	6536.9	6336.3	6321.3
55°	6729.5	6758.3	6986.5	7247.1	7315.1	7226.4	7266.7	7222.9	6904.7	6623.4	6579.6
57.5°	6888.6	6945.0	7292.1	7778.6	8221.3	8352.7	8041.4	7624.1	7051.1	6653.4	6610.7
60°	6500.0	6561.1	7099.5	8023.0	9152.8	9723.5	8848.5	7692.1	6717.9	6158.8	6091.9
62.5°	5205.3	5222.6	6014.7	7447.7	9695.9	11173.9	9188.6	7112.2	5748.3	4988.6	4962.1
64°	3745.8	3923.3	4762.6	6530.0	9458.4	11726.1	8992.6	6299.4	4669.2	3900.2	3775.7
65°	2801.5	2850.0	3839.1	5576.6	9039.9	11684.6	8612.1	5522.4	3866.8	2984.8	2846.5
67.5°	1058.4	1064.1	1416.9	2779.6	6435.5	10053.3	6572.7	3004.4	1629.0	1178.3	1135.6
70°	439.3	447.3	520.0	935.0	2765.8	6455.1	3169.3	1083.7	596.0	483.1	476.1
72.5°	321.7	326.3	348.2	415.0	850.8	2650.5	1042.2	460.0	349.3	312.4	309.0
75°	252.5	254.8	270.9	305.5	396.6	734.4	433.5	315.9	266.3	239.8	237.5
77.5°	192.5	198.3	209.8	232.9	266.3	348.2	287.1	236.3	205.2	183.3	179.9
80°	132.6	139.5	161.4	170.6	178.7	226.0	196.0	178.7	160.3	133.7	125.7
82.5°	81.9	86.5	108.4	116.4	113.0	126.8	125.7	128.0	114.1	83.0	77.2
85°	42.7	45.0	58.8	61.1	56.5	51.9	64.6	74.9	70.3	47.3	46.1
87.5°	9.2	10.4	12.7	11.5	12.7	12.7	16.1	24.2	25.4	16.1	15.0
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)