

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: P529816

Luminaire Tested: **GALN-SA5A-730-U-RW-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-8)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-730-U-RW-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18276 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

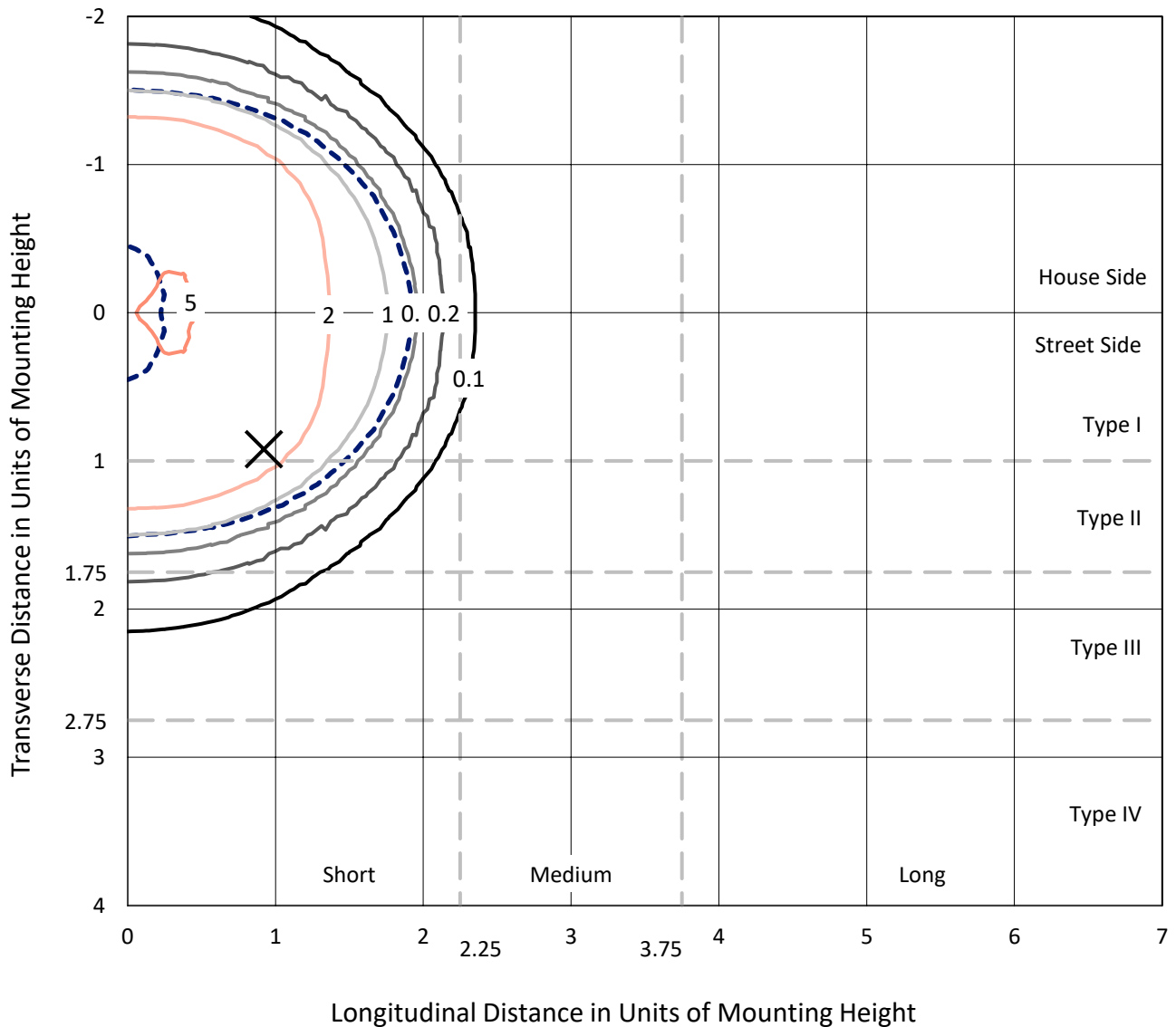
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

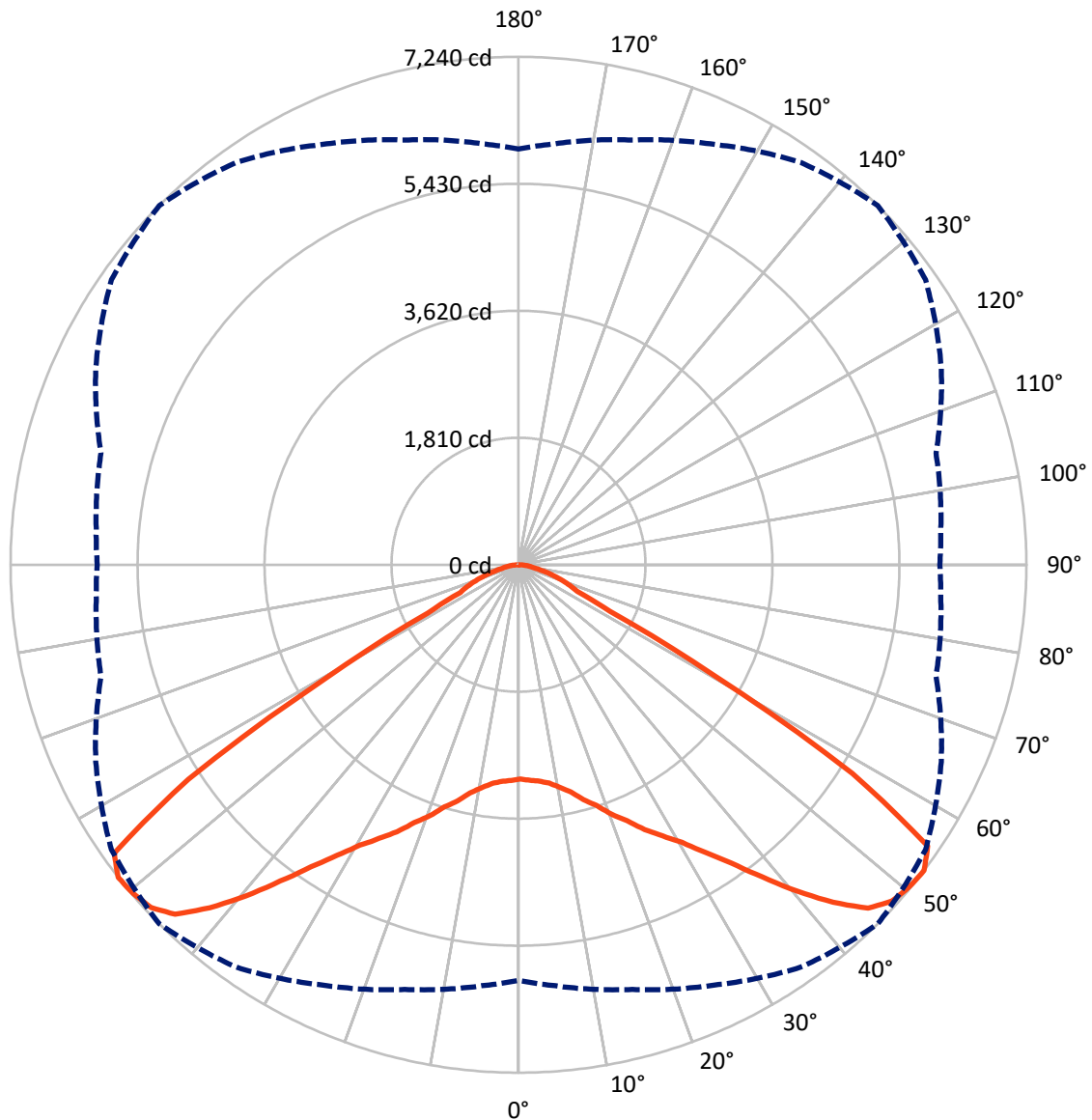
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 52.5-Deg Vertical

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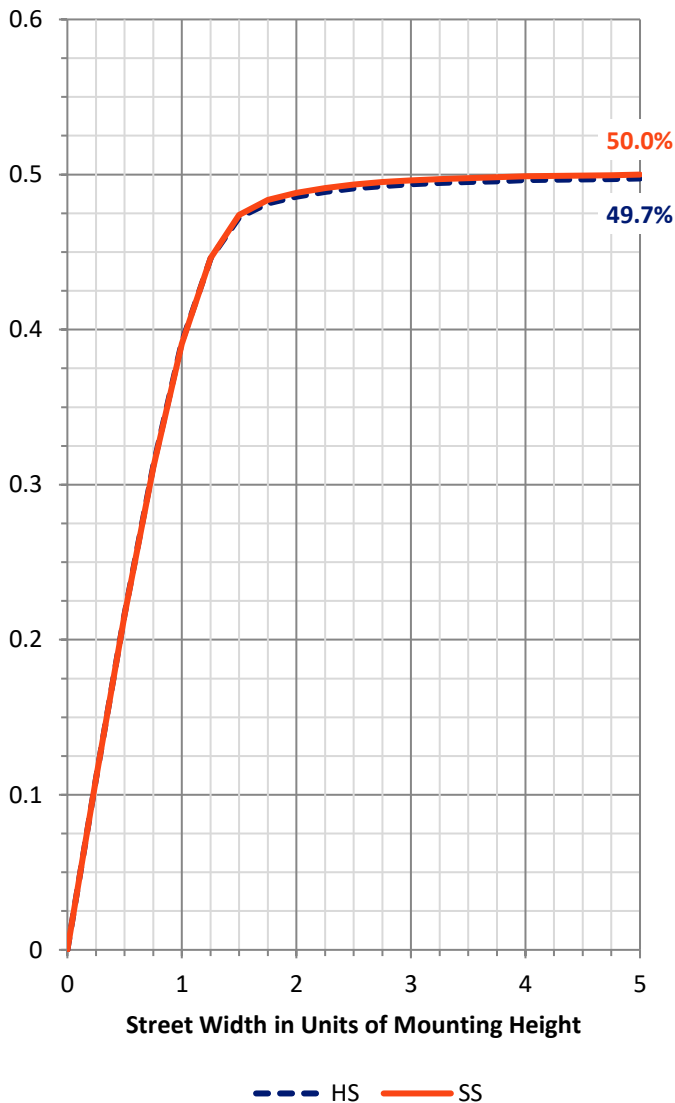
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9138.0	0.0	9138.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9138.0	0.0	9138.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	18276.0	0.0	18276.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.2	1.6
10°-20°	986.3	5.4
20°-30°	1877.7	10.3
30°-40°	3224.2	17.6
40°-50°	4955.7	27.1
50°-60°	5032.4	27.5
60°-70°	1402.5	7.7
70°-80°	413.7	2.3
80°-90°	83.3	0.5
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°	18276.0	100.0
0°-180°	18276.0	100.0

Coefficient of Utilization



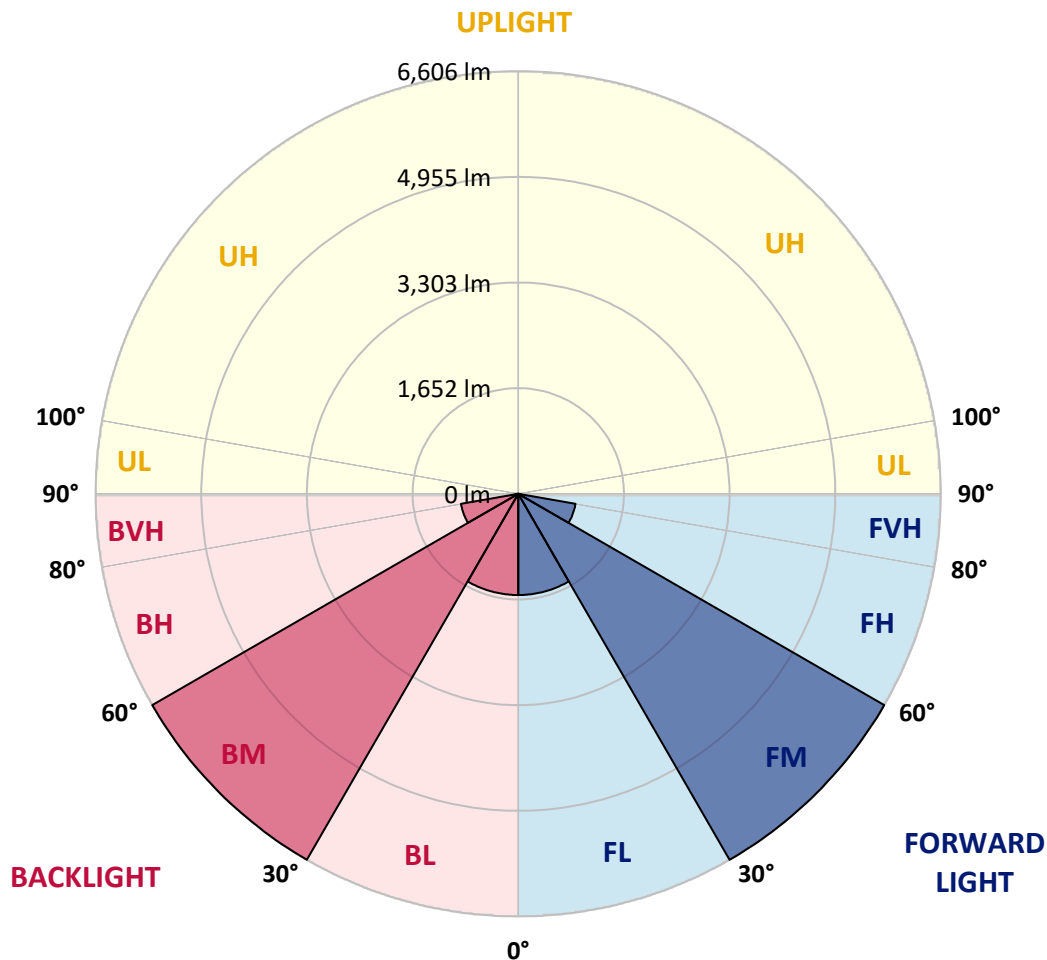
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1582.1	8.7			
FM (30°-60°)	6606.2	36.1			
FH (60°-80°)	908.1	5.0			G1/1800
FVH (80°-90°)	41.7	0.2			G1/100
BL (0°-30°)	1582.1	8.7	B3/2500		
BM (30°-60°)	6606.2	36.1	B4/8500		
BH (60°-80°)	908.1	5.0	B2/1000		G1/1800
BVH (80°-90°)	41.7	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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	3061.9	3030.1	3041.5	3048.3	3077.8	3075.5	3068.7	3077.8	3086.8	3089.1	3084.6
5°	3059.6	3036.9	3046.0	3052.8	3082.3	3098.2	3093.6	3132.2	3159.4	3152.6	3186.6
7.5°	3041.5	3055.1	3043.7	3077.8	3102.7	3141.3	3182.1	3218.4	3252.4	3291.0	3297.8
10°	3082.3	3082.3	3102.7	3129.9	3195.7	3225.2	3284.1	3336.3	3402.1	3447.4	3429.3
12.5°	3125.4	3132.2	3132.2	3202.5	3256.9	3322.7	3377.1	3447.4	3540.4	3594.9	3622.1
15°	3168.5	3173.0	3195.7	3291.0	3372.6	3476.9	3526.8	3590.3	3642.5	3744.6	3746.8
17.5°	3207.0	3232.0	3300.0	3406.6	3508.7	3608.5	3687.9	3753.6	3799.0	3839.8	3830.8
20°	3352.2	3370.3	3440.6	3547.2	3699.2	3796.7	3823.9	3835.3	3864.8	3946.4	3921.5
22.5°	3492.8	3499.6	3565.4	3728.7	3835.3	3964.6	3994.1	3987.2	3998.6	4019.0	4055.3
25°	3638.0	3649.3	3740.0	3878.4	4028.1	4182.3	4207.2	4155.1	4139.2	4161.9	4164.2
27.5°	3823.9	3826.2	3941.9	4062.1	4232.2	4377.4	4415.9	4375.1	4300.2	4318.4	4347.9
30°	4059.8	4043.9	4159.6	4332.0	4511.2	4592.8	4658.6	4638.2	4556.5	4540.7	4515.7
32.5°	4332.0	4336.5	4440.9	4629.1	4747.0	4883.1	4953.4	4919.4	4867.3	4840.0	4855.9
35°	4715.3	4735.7	4806.0	4962.5	5153.0	5221.1	5332.2	5259.6	5123.5	5157.6	5187.0
37.5°	5030.6	5089.5	5221.1	5407.1	5520.5	5645.2	5686.0	5588.5	5488.7	5447.9	5545.4
40°	5513.6	5495.5	5640.7	5826.6	5994.5	6119.2	6067.1	5969.5	5722.3	5724.6	5751.8
42.5°	5928.7	5937.8	6048.9	6271.2	6500.3	6577.4	6411.8	6173.7	5899.2	5869.7	5928.7
45°	6278.0	6314.3	6377.8	6674.9	6899.4	6983.4	6677.2	6395.9	6028.5	5906.0	6003.5
47.5°	6402.7	6461.7	6600.0	6872.2	7094.5	7162.5	6917.6	6513.9	6148.7	5949.1	6001.3
50°	6420.9	6400.5	6627.3	6876.8	7071.8	7219.2	7003.8	6600.0	6119.2	6014.9	5999.0
52.5°	5924.2	6024.0	6266.6	6609.1	7003.8	7239.6	7080.9	6647.7	6160.0	6042.1	6003.5
55°	4794.7	4676.7	5119.0	5695.1	6420.9	7076.3	7053.7	6672.6	6185.0	6087.5	6035.3
57.5°	2676.3	2710.3	2959.8	3585.8	4522.5	5611.2	6271.2	6409.5	6173.7	6117.0	6144.2
60°	1238.4	1249.7	1356.3	1648.9	2229.5	3182.1	4050.8	4933.0	5339.0	5420.7	5420.7
62.5°	923.1	918.6	945.8	997.9	1120.4	1462.9	1952.8	2653.6	3211.6	3601.7	3703.7
65°	834.6	832.4	846.0	864.1	873.2	920.8	1029.7	1245.2	1426.6	1530.9	1512.8
67.5°	730.3	728.0	732.6	743.9	759.8	784.7	812.0	857.3	920.8	916.3	905.0
70°	589.7	589.7	596.5	605.6	623.7	653.2	685.0	716.7	771.1	782.5	780.2
72.5°	435.5	428.7	442.3	460.4	478.6	514.8	548.9	578.4	616.9	628.3	623.7
75°	276.7	281.2	290.3	310.7	342.5	367.4	403.7	428.7	453.6	462.7	465.0
77.5°	154.2	158.8	174.6	199.6	231.3	258.6	290.3	310.7	326.6	328.9	331.1
80°	93.0	95.3	111.1	133.8	161.0	190.5	215.5	235.9	249.5	242.7	240.4
82.5°	56.7	59.0	72.6	93.0	115.7	138.4	165.6	183.7	197.3	188.2	179.2
85°	29.5	31.8	43.1	56.7	74.8	86.2	86.2	77.1	74.8	70.3	68.0
87.5°	9.1	9.1	11.3	13.6	11.3	13.6	15.9	18.1	18.1	20.4	18.1
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)