

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: P453936

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453936
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-SA5A-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21519 lumens
Efficiency: N/A
Efficacy: 139.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

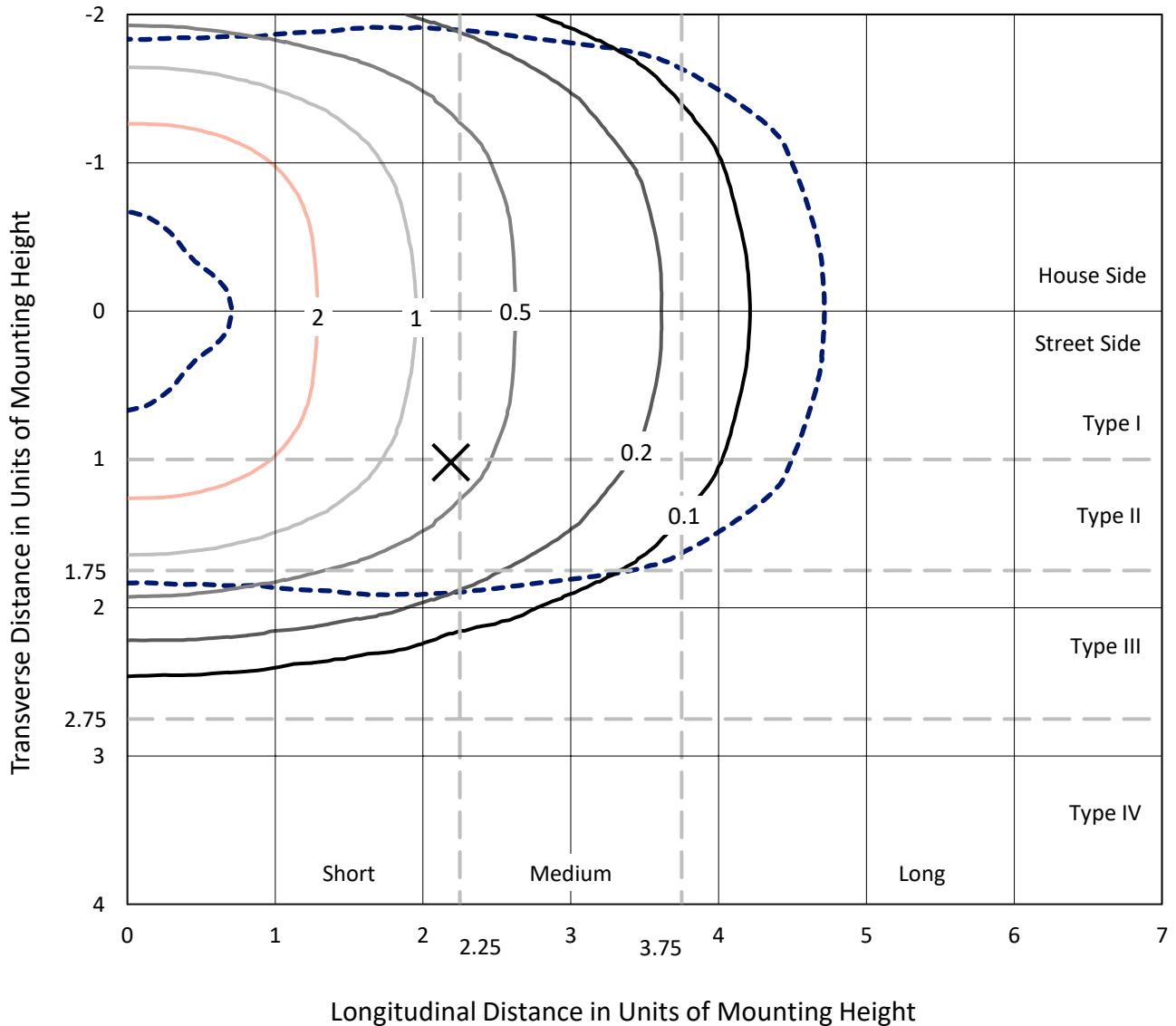
Input Watts (W): 154
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453936
 CATALOG NUMBER: GALN-SA5A-730-U-RW

Iso-Footcandle Lines of Horizontal Illumination

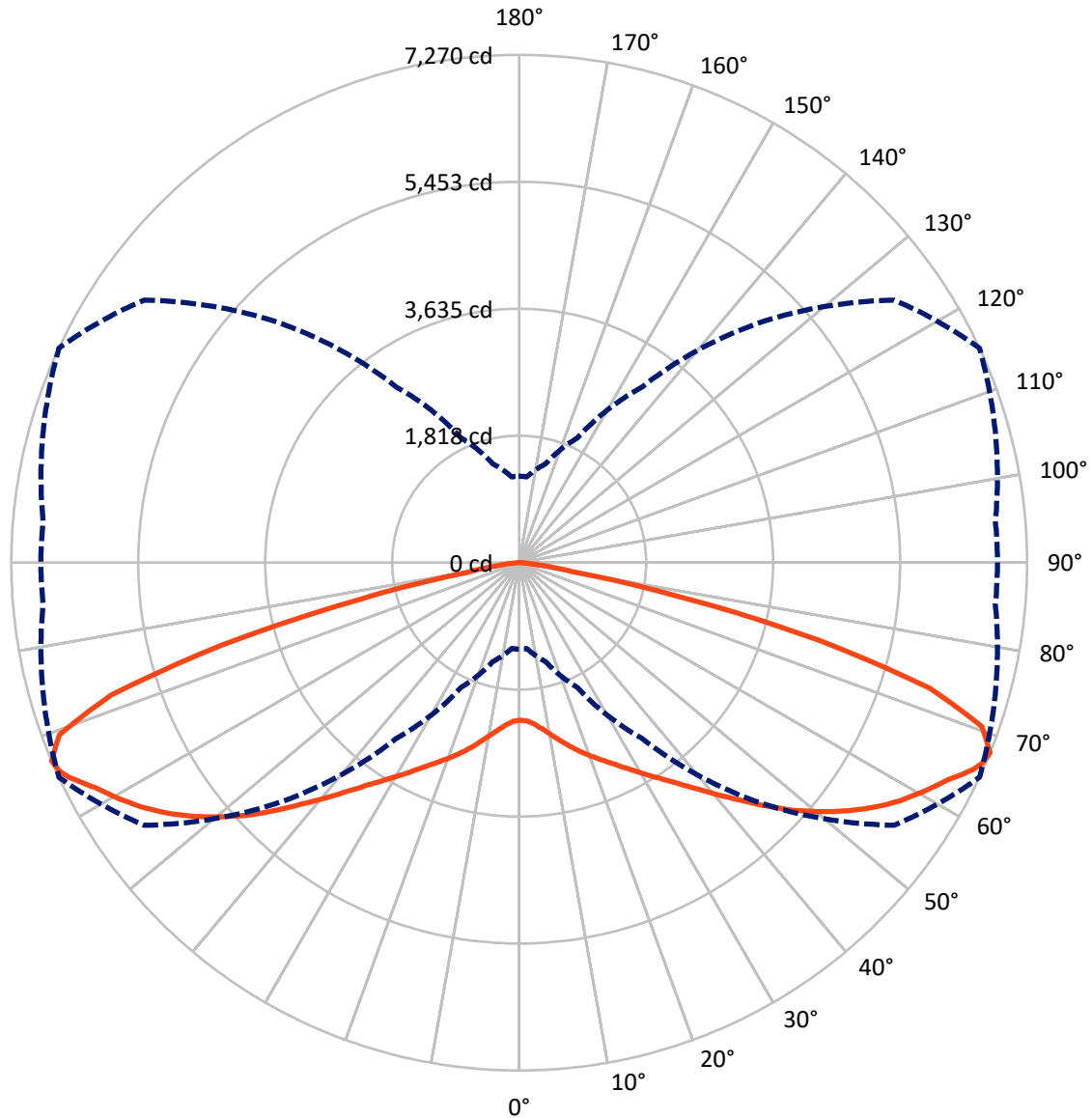
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
 Type III - Short - N/A

REPORT NUMBER: P453936
CATALOG NUMBER: GALN-SA5A-730-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P453936

CATALOG NUMBER: GALN-SA5A-730-U-RW

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10759.5	0.0	10759.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10759.5	0.0	10759.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21519.0	0.0	21519.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	222.3	1.0
10°-20°	744.0	3.5
20°-30°	1455.3	6.8
30°-40°	2475.3	11.5
40°-50°	3917.7	18.2
50°-60°	5194.8	24.1
60°-70°	4900.3	22.8
70°-80°	2422.5	11.3
80°-90°	186.7	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°	21519.0	100.0
0°-180°	21519.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453936

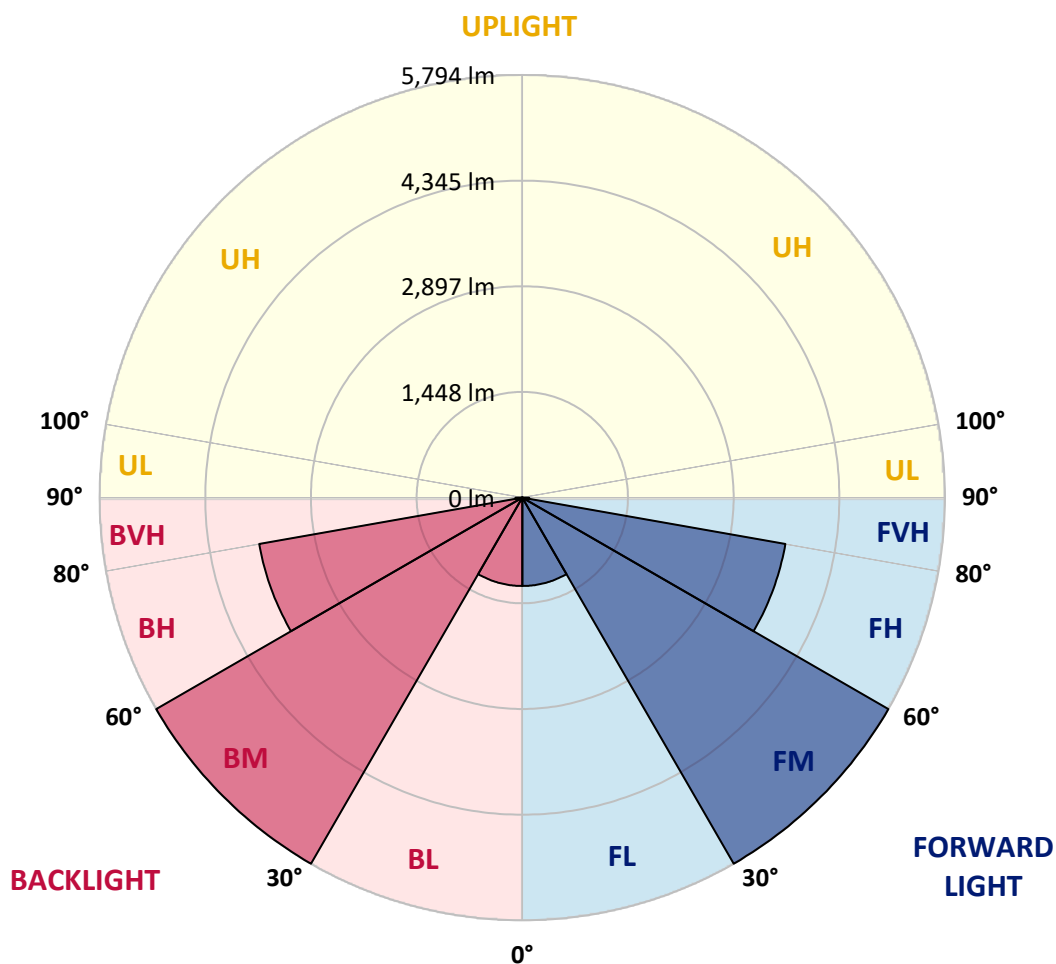
CATALOG NUMBER: GALN-SA5A-730-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1210.8	5.6			
FM (30°-60°)	5793.9	26.9			
FH (60°-80°)	3661.4	17.0			G2/5000
FVH (80°-90°)	93.3	0.4			G1/100
BL (0°-30°)	1210.8	5.6	B3/2500		
BM (30°-60°)	5793.9	26.9	B4/8500		
BH (60°-80°)	3661.4	17.0	B4/5000		G4/5000
BVH (80°-90°)	93.3	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





REPORT NUMBER: P453936
 CATALOG NUMBER: GALN-SA5A-730-U-RW

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2253.9	2253.9	2253.9	2253.9	2253.9	2253.9	2253.9	2253.9	2253.9	2253.9	2253.9
2.5°	2242.4	2244.7	2247.0	2250.5	2255.1	2262.0	2266.6	2270.1	2279.3	2280.4	2279.3
5°	2234.3	2236.6	2242.4	2252.8	2267.8	2288.5	2304.7	2324.3	2339.2	2349.6	2347.3
7.5°	2233.2	2237.8	2247.0	2268.9	2297.7	2333.5	2370.4	2403.8	2432.6	2455.7	2452.2
10°	2251.6	2257.4	2272.4	2304.7	2349.6	2401.5	2453.4	2503.0	2544.5	2574.4	2584.8
12.5°	2282.7	2287.4	2315.0	2363.5	2428.0	2492.6	2551.4	2612.5	2670.1	2720.9	2720.9
15°	2336.9	2345.0	2379.6	2449.9	2529.5	2604.4	2664.4	2728.9	2791.2	2848.8	2866.1
17.5°	2411.9	2423.4	2475.3	2565.2	2666.7	2735.8	2792.3	2845.4	2899.6	2954.9	2963.0
20°	2514.5	2526.0	2595.2	2703.6	2823.5	2906.5	2944.5	2957.2	2983.7	3036.7	3043.7
22.5°	2654.0	2665.5	2742.8	2865.0	2998.7	3088.6	3104.8	3074.8	3067.9	3109.4	3114.0
25°	2811.9	2822.3	2911.1	3042.5	3180.9	3278.9	3274.2	3200.5	3159.0	3184.3	3191.2
27.5°	2989.5	3004.5	3094.4	3230.4	3380.3	3466.8	3452.9	3345.7	3257.0	3252.3	3254.6
30°	3216.6	3232.7	3318.1	3448.3	3595.9	3675.5	3646.6	3502.5	3365.3	3319.2	3319.2
32.5°	3456.4	3496.8	3583.2	3719.3	3834.6	3892.2	3848.4	3675.5	3493.3	3428.7	3425.3
35°	3768.8	3790.7	3876.1	4008.6	4095.1	4140.1	4055.9	3870.3	3660.5	3584.4	3574.0
37.5°	4074.4	4092.8	4192.0	4318.8	4423.7	4421.4	4307.2	4102.0	3868.0	3782.7	3775.8
40°	4386.8	4406.4	4519.4	4635.8	4740.7	4731.5	4593.2	4363.7	4114.7	4019.0	4037.5
42.5°	4657.7	4679.6	4807.6	4973.6	5068.2	5065.9	4905.6	4647.4	4387.9	4302.6	4318.8
45°	4904.4	4924.0	5072.8	5263.0	5401.4	5418.6	5243.4	4970.2	4703.8	4594.3	4598.9
47.5°	5078.5	5115.4	5271.1	5489.0	5676.9	5738.0	5566.2	5298.7	4992.1	4877.9	4884.9
50°	5211.1	5234.2	5403.7	5651.5	5889.0	6015.8	5877.5	5603.1	5280.3	5159.2	5175.4
52.5°	5227.3	5254.9	5439.4	5725.3	6029.7	6222.2	6154.2	5900.6	5574.3	5449.8	5484.4
55°	5095.8	5112.0	5332.2	5679.2	6085.0	6375.6	6392.8	6177.3	5854.4	5759.9	5783.0
57.5°	4721.1	4762.6	5041.6	5463.6	6008.9	6457.4	6571.5	6428.6	6138.1	6044.7	6081.6
60°	4106.6	4148.1	4428.3	4963.2	5721.9	6419.4	6719.1	6651.1	6395.2	6320.2	6339.8
62.5°	3217.8	3214.3	3561.3	4217.3	5151.2	6232.6	6828.6	6865.5	6648.8	6554.3	6584.2
65°	2085.6	2096.0	2431.5	3138.2	4290.0	5757.6	6852.9	7138.8	6897.8	6754.9	6776.8
66°	1677.5	1708.6	1993.4	2644.8	3850.7	5446.3	6780.2	7219.5	6973.9	6801.0	6811.4
67.5°	1238.2	1232.5	1466.5	1969.2	3074.8	4854.9	6553.1	7270.2	7060.4	6842.5	6847.1
70°	706.7	705.6	788.6	1081.4	1807.8	3418.4	5523.6	7026.9	7235.6	6992.4	6979.7
72.5°	516.5	513.0	524.6	597.2	882.0	1725.9	3810.3	6141.5	7145.7	6968.1	6932.4
75°	433.5	431.2	428.9	438.1	494.6	781.7	2022.2	4417.9	6200.3	6540.4	6503.5
77.5°	353.9	353.9	355.1	352.8	355.1	411.6	838.2	2368.1	3775.8	4215.0	4317.6
80°	276.7	275.5	295.1	287.1	268.6	264.0	371.2	762.1	1253.2	1246.3	1028.4
82.5°	204.1	190.2	224.8	219.1	198.3	168.3	216.7	325.1	418.5	272.1	201.8
85°	129.1	128.0	159.1	145.3	121.1	79.6	103.8	139.5	172.9	104.9	85.3
87.5°	23.1	21.9	50.7	36.9	36.9	23.1	28.8	38.0	56.5	39.2	28.8
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)