

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: P453994

Luminaire Tested: **GALN-SA5A-750-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453994
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-750-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23628 lumens
Efficiency: N/A
Efficacy: 153.4 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

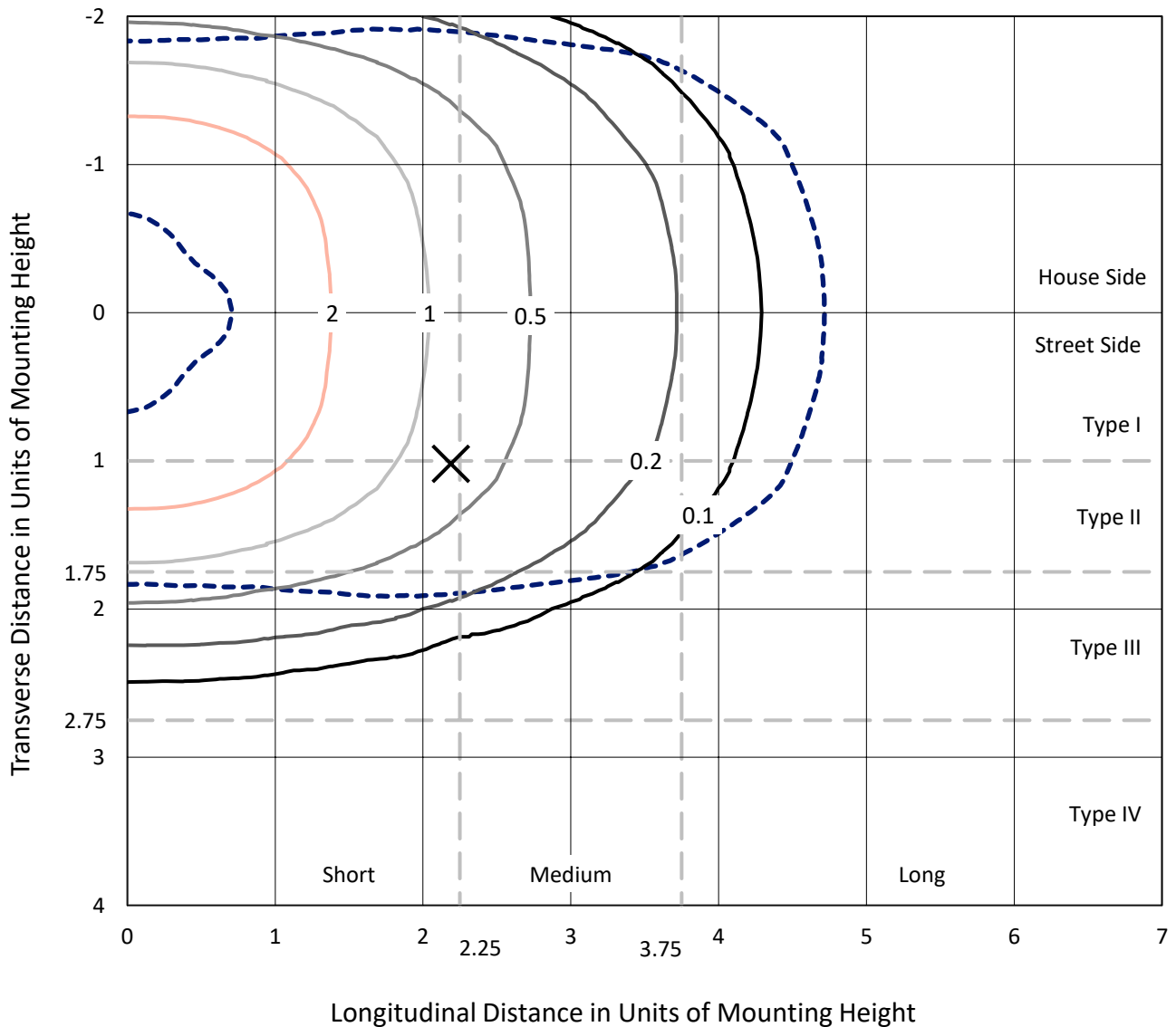




REPORT NUMBER: P453994
 CATALOG NUMBER: GALN-SA5A-750-U-RW

Iso-Footcandle Lines of Horizontal Illumination

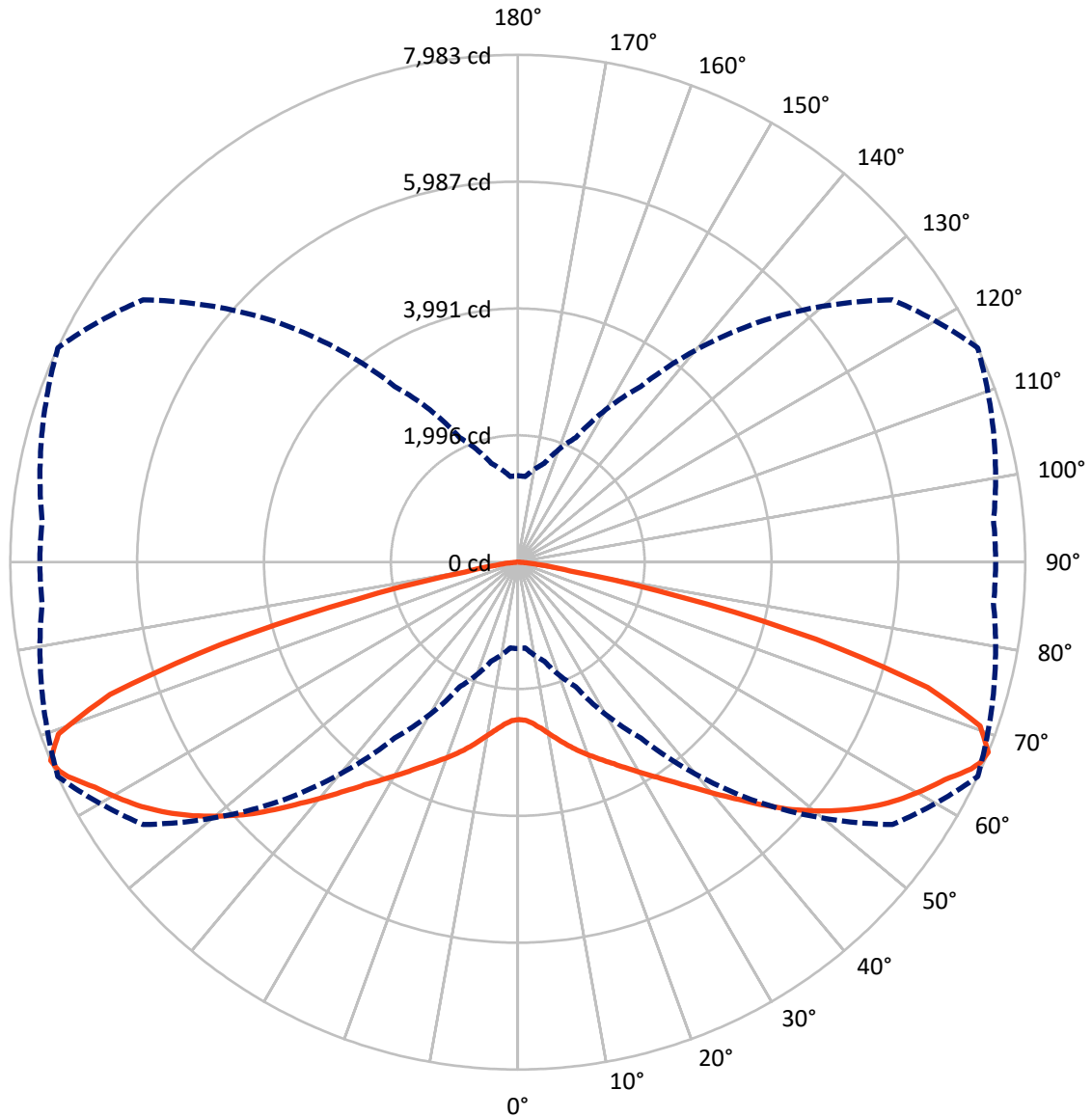
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type III - Short - N/A

REPORT NUMBER: P453994
CATALOG NUMBER: GALN-SA5A-750-U-RW

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453994

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11814.0	0.0	11814.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11814.0	0.0	11814.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	23628.0	0.0	23628.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	1.0
10°-20°	816.9	3.5
20°-30°	1598.0	6.8
30°-40°	2717.9	11.5
40°-50°	4301.7	18.2
50°-60°	5703.9	24.1
60°-70°	5380.6	22.8
70°-80°	2659.9	11.3
80°-90°	205.0	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°	23628.0	100.0
0°-180°	23628.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453994

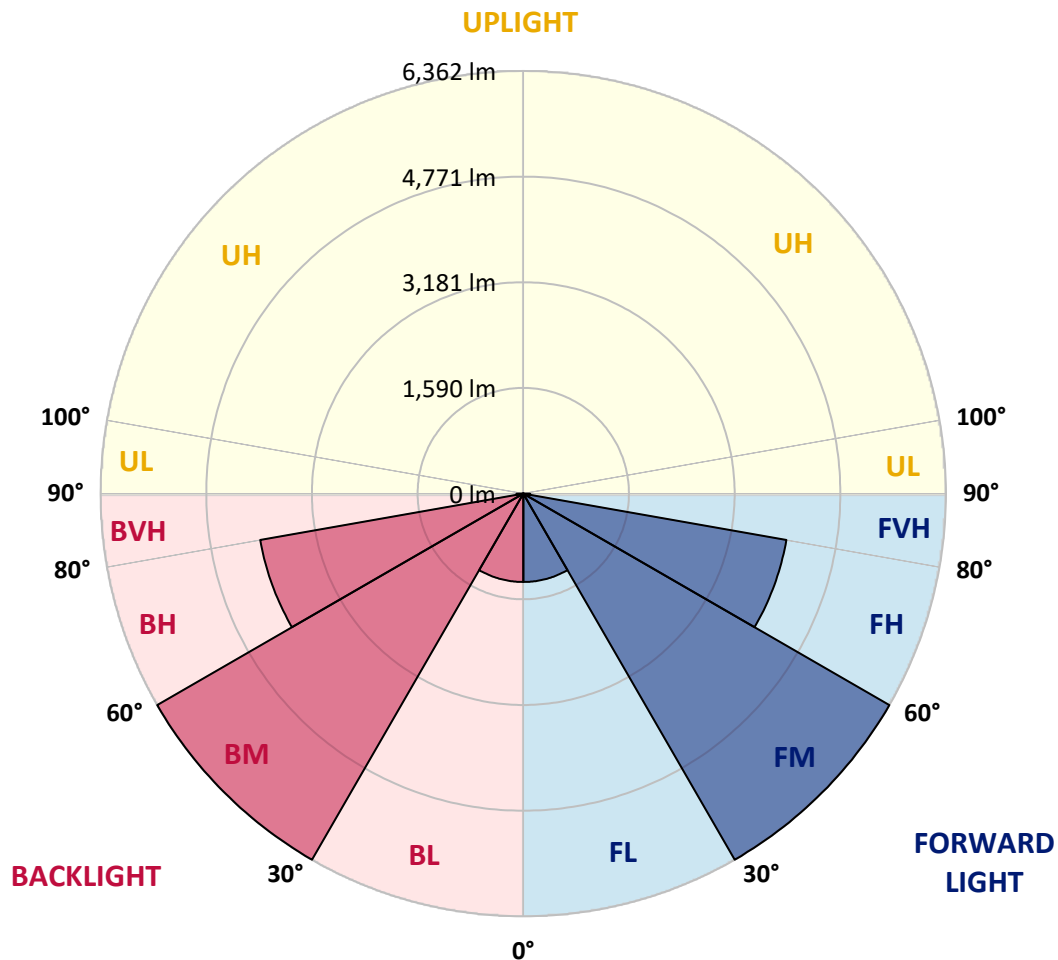
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1329.5	5.6			
FM	(30°-60°)	6361.8	26.9			
FH	(60°-80°)	4020.2	17.0			G2/5000
FVH	(80°-90°)	102.5	0.4			G2/225
BL	(0°-30°)	1329.5	5.6	B3/2500		
BM	(30°-60°)	6361.8	26.9	B4/8500		
BH	(60°-80°)	4020.2	17.0	B4/5000		G4/5000
BVH	(80°-90°)	102.5	0.4			G2/225
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°	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8	2474.8
2.5°	2462.2	2464.7	2467.2	2471.0	2476.1	2483.7	2488.7	2492.5	2502.7	2503.9	2502.7
5°	2453.3	2455.8	2462.2	2473.6	2490.0	2512.8	2530.5	2552.0	2568.5	2579.9	2577.4
7.5°	2452.0	2457.1	2467.2	2491.3	2522.9	2562.2	2602.7	2639.4	2671.0	2696.4	2692.6
10°	2472.3	2478.6	2495.1	2530.5	2579.9	2636.9	2693.8	2748.3	2793.8	2826.7	2838.1
12.5°	2506.5	2511.5	2541.9	2595.1	2666.0	2736.9	2801.4	2868.5	2931.8	2987.5	2987.5
15°	2566.0	2574.8	2612.8	2690.0	2777.4	2859.7	2925.5	2996.4	3064.7	3128.0	3147.0
17.5°	2648.3	2660.9	2717.9	2816.6	2928.0	3004.0	3066.0	3124.2	3183.7	3244.5	3253.3
20°	2760.9	2773.6	2849.5	2968.5	3100.2	3191.3	3233.1	3247.0	3276.1	3334.4	3342.0
22.5°	2914.1	2926.7	3011.6	3145.7	3292.6	3391.3	3409.1	3376.1	3368.5	3414.1	3419.2
25°	3087.5	3098.9	3196.4	3340.7	3492.6	3600.2	3595.1	3514.1	3468.6	3496.4	3504.0
27.5°	3282.5	3298.9	3397.7	3547.0	3711.6	3806.5	3791.4	3673.6	3576.2	3571.1	3573.6
30°	3531.8	3549.6	3643.2	3786.3	3948.3	4035.7	4004.0	3845.8	3695.1	3644.5	3644.5
32.5°	3795.2	3839.5	3934.4	4083.8	4210.4	4273.7	4225.6	4035.7	3835.7	3764.8	3761.0
35°	4138.2	4162.3	4255.9	4401.5	4496.5	4545.8	4453.4	4249.6	4019.2	3935.7	3924.3
37.5°	4473.7	4493.9	4602.8	4742.0	4857.2	4854.7	4729.4	4504.1	4247.1	4153.4	4145.8
40°	4816.7	4838.3	4962.3	5090.2	5205.4	5195.2	5043.3	4791.4	4518.0	4412.9	4433.2
42.5°	5114.2	5138.3	5278.8	5461.1	5564.9	5562.3	5386.4	5102.8	4818.0	4724.3	4742.0
45°	5385.1	5406.6	5569.9	5778.8	5930.7	5949.7	5757.3	5457.3	5164.9	5044.6	5049.7
47.5°	5576.3	5616.8	5787.7	6026.9	6233.3	6300.4	6111.7	5818.1	5481.3	5356.0	5363.6
50°	5721.8	5747.2	5933.2	6205.4	6466.2	6605.4	6453.5	6152.2	5797.8	5664.9	5682.6
52.5°	5739.6	5769.9	5972.5	6286.4	6620.6	6832.0	6757.3	6478.9	6120.6	5983.9	6021.9
55°	5595.3	5613.0	5854.8	6235.8	6681.4	7000.4	7019.4	6782.7	6428.2	6324.4	6349.7
57.5°	5183.8	5229.4	5535.8	5999.1	6597.8	7090.3	7215.6	7058.6	6739.6	6637.1	6677.6
60°	4509.1	4554.7	4862.3	5449.7	6282.6	7048.5	7377.6	7302.9	7021.9	6939.6	6961.2
62.5°	3533.1	3529.3	3910.3	4630.6	5656.0	6843.4	7497.9	7538.4	7300.4	7196.6	7229.5
65°	2290.0	2301.4	2669.8	3445.8	4710.4	6321.9	7524.5	7838.4	7573.8	7416.9	7440.9
66°	1841.9	1876.1	2188.7	2904.0	4228.1	5980.1	7444.7	7927.0	7657.4	7467.5	7478.9
67.5°	1359.6	1353.2	1610.2	2162.1	3376.1	5330.7	7195.3	7982.7	7752.3	7513.1	7518.1
70°	776.0	774.7	865.9	1187.4	1984.9	3753.4	6064.9	7715.6	7944.8	7677.7	7663.7
72.5°	567.1	563.3	576.0	655.7	968.4	1895.0	4183.8	6743.4	7846.0	7651.1	7611.8
75°	476.0	473.4	470.9	481.0	543.1	858.3	2220.4	4850.9	6808.0	7181.4	7140.9
77.5°	388.6	388.6	389.9	387.4	389.9	451.9	920.3	2600.1	4145.8	4628.1	4740.8
80°	303.8	302.5	324.1	315.2	295.0	289.9	407.6	836.8	1376.0	1368.4	1129.2
82.5°	224.1	208.9	246.8	240.5	217.7	184.8	238.0	357.0	459.5	298.8	221.5
85°	141.8	140.5	174.7	159.5	132.9	87.3	113.9	153.2	189.9	115.2	93.7
87.5°	25.3	24.1	55.7	40.5	40.5	25.3	31.6	41.8	62.0	43.0	31.6
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)