

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: P528872

Luminaire Tested: **GALN-SA4A-730-U-5MQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-730-U-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14542 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

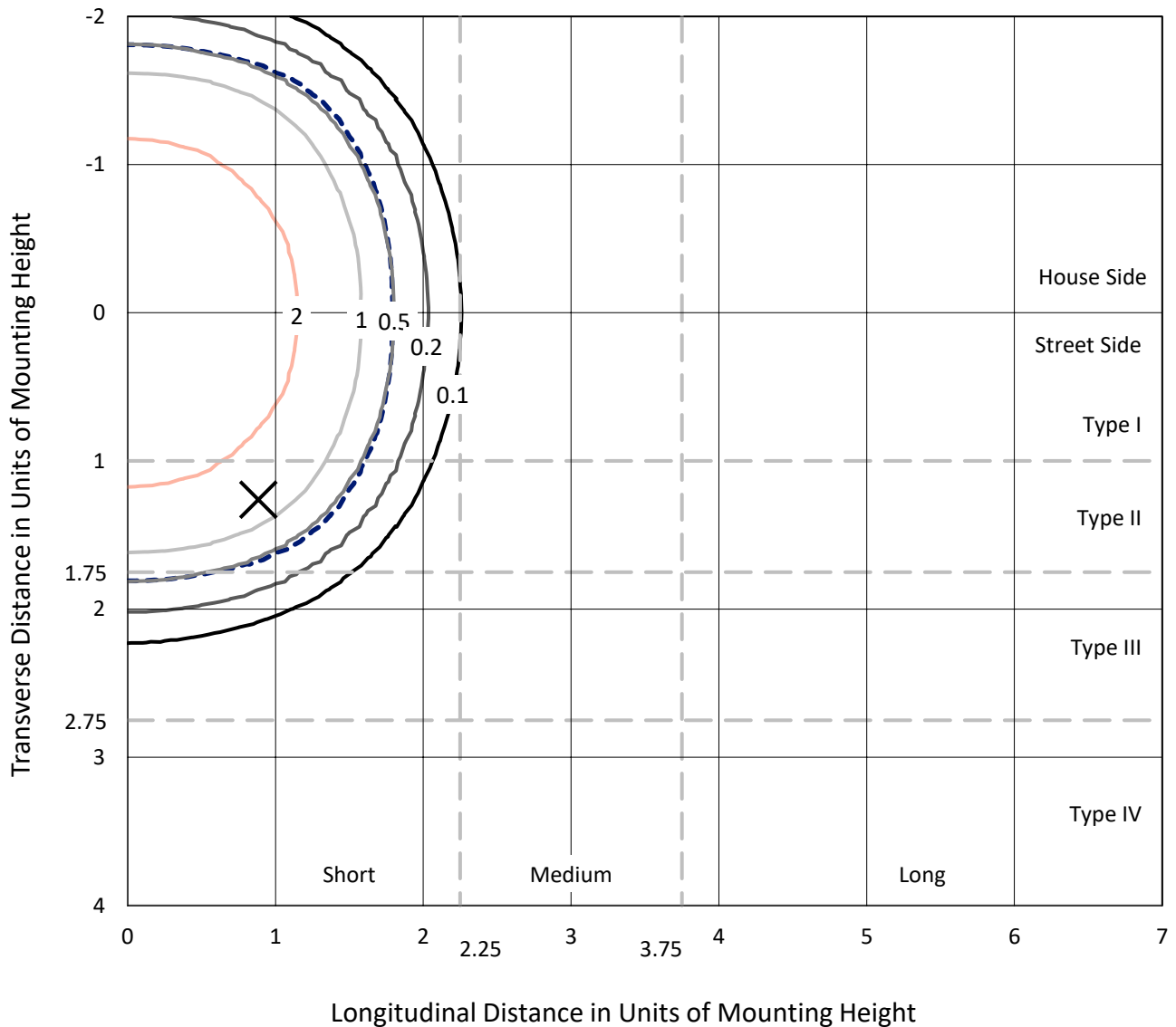
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

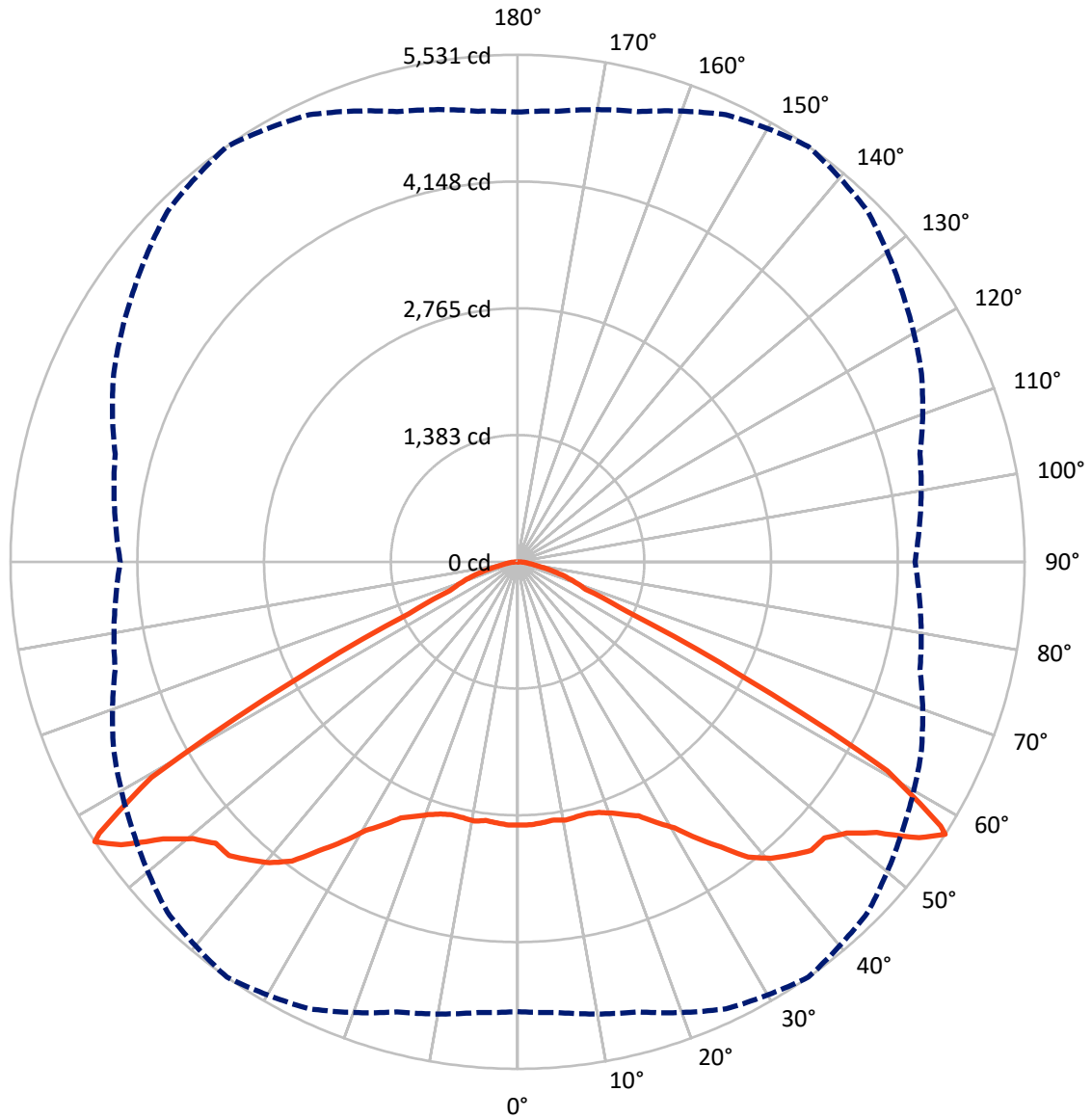
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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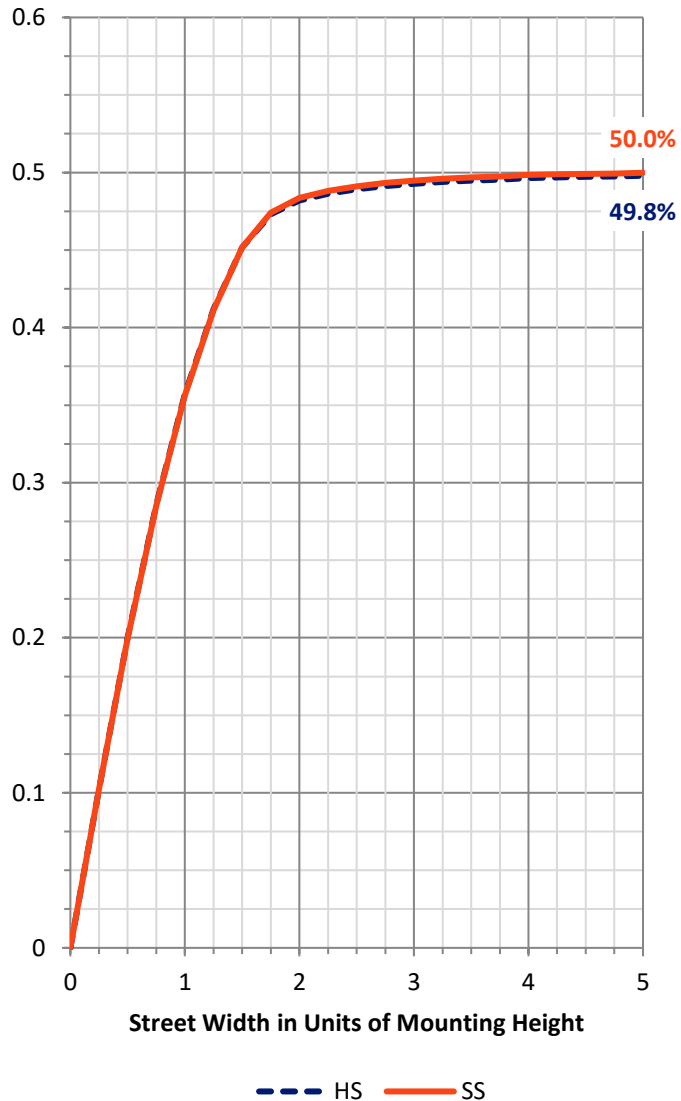
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7271.0	0.0	7271.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7271.0	0.0	7271.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14542.0	0.0	14542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.3	1.9
10°-20°	806.4	5.5
20°-30°	1408.3	9.7
30°-40°	2307.6	15.9
40°-50°	3383.5	23.3
50°-60°	4261.8	29.3
60°-70°	1602.8	11.0
70°-80°	426.2	2.9
80°-90°	73.1	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°	14542.0	100.0
0°-180°	14542.0	100.0

Coefficient of Utilization



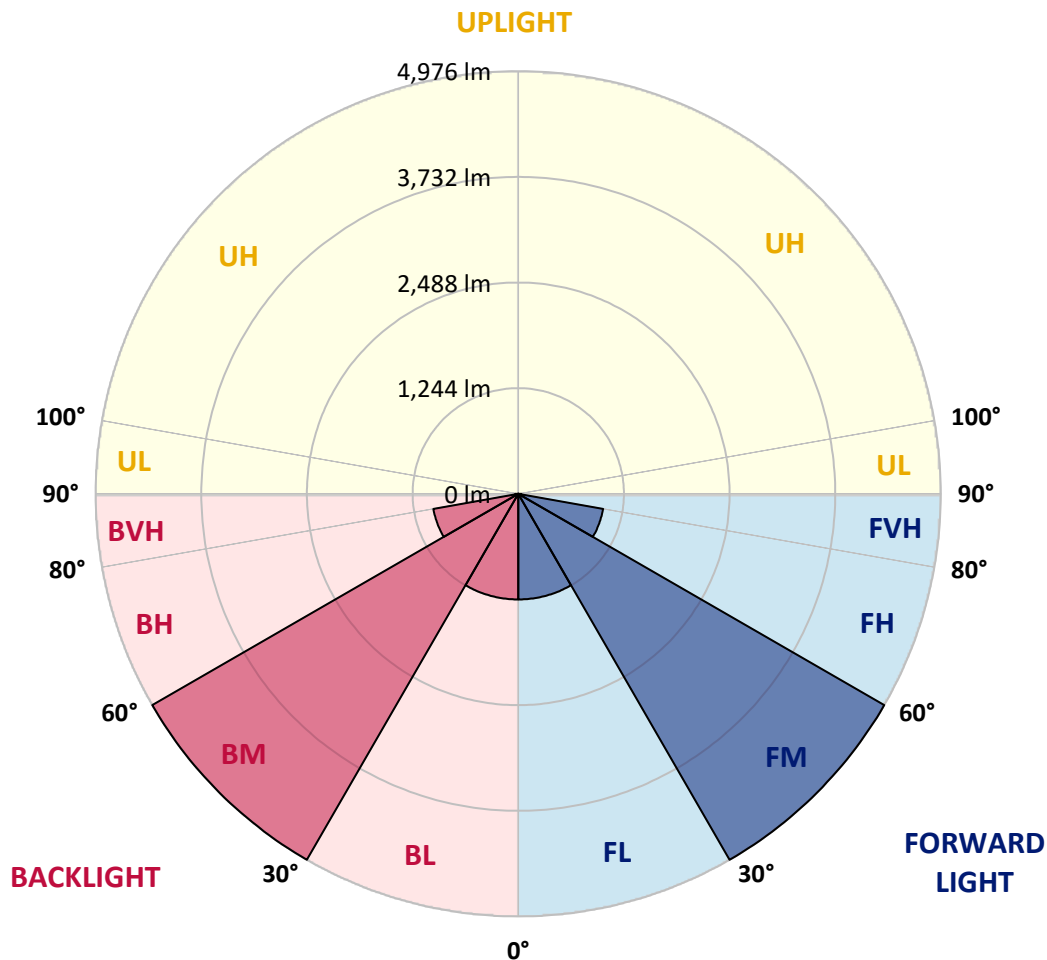
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1243.5	8.6			
FM (30°-60°)	4976.5	34.2			
FH (60°-80°)	1014.5	7.0			G1/1800
FVH (80°-90°)	36.5	0.3			G1/100
BL (0°-30°)	1243.5	8.6	B3/2500		
BM (30°-60°)	4976.5	34.2	B3/5000		
BH (60°-80°)	1014.5	7.0	B3/2500		G1/1800
BVH (80°-90°)	36.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9	2871.9
2.5°	2857.6	2886.3	2873.7	2866.6	2871.9	2863.0	2848.6	2864.8	2861.2	2846.9	2841.5
5°	2850.4	2871.9	2857.6	2871.9	2857.6	2882.7	2875.5	2848.6	2880.9	2850.4	2861.2
7.5°	2845.1	2852.2	2855.8	2848.6	2843.3	2873.7	2857.6	2845.1	2827.1	2821.8	2830.7
10°	2832.5	2850.4	2823.6	2859.4	2866.6	2845.1	2845.1	2821.8	2807.4	2798.5	2828.9
12.5°	2864.8	2834.3	2830.7	2848.6	2854.0	2863.0	2837.9	2825.4	2798.5	2802.1	2796.7
15°	2827.1	2839.7	2841.5	2845.1	2850.4	2871.9	2848.6	2821.8	2811.0	2773.4	2777.0
17.5°	2841.5	2828.9	2841.5	2882.7	2875.5	2891.6	2866.6	2825.4	2800.3	2778.8	2807.4
20°	2866.6	2861.2	2866.6	2916.7	2925.7	2940.0	2918.5	2880.9	2832.5	2807.4	2821.8
22.5°	2893.4	2889.9	2893.4	2941.8	2993.8	3011.7	2990.2	2902.4	2877.3	2830.7	2814.6
25°	2941.8	2945.4	2983.0	3036.8	3070.8	3104.8	3065.4	3002.7	2922.1	2893.4	2859.4
27.5°	3049.3	3058.3	3079.8	3158.6	3217.7	3248.2	3192.6	3106.6	3056.5	2997.3	2988.4
30°	3181.9	3181.9	3219.5	3287.6	3368.2	3414.8	3346.7	3244.6	3183.7	3151.4	3131.7
32.5°	3357.5	3337.8	3352.1	3472.1	3597.5	3637.0	3545.6	3420.2	3323.4	3280.4	3266.1
35°	3508.0	3520.5	3552.7	3681.7	3821.5	3912.9	3769.5	3606.5	3508.0	3468.5	3461.4
37.5°	3703.2	3724.7	3740.9	3918.2	4086.6	4120.7	3982.7	3851.9	3731.9	3699.7	3681.7
40°	3979.1	3964.8	3970.2	4101.0	4253.3	4274.8	4138.6	4045.4	3946.9	3927.2	3927.2
42.5°	4206.7	4190.6	4208.5	4256.8	4373.3	4357.2	4281.9	4213.8	4172.6	4151.1	4172.6
45°	4344.6	4341.1	4373.3	4409.1	4491.5	4437.8	4378.7	4389.4	4350.0	4314.2	4312.4
47.5°	4495.1	4471.8	4511.3	4565.0	4502.3	4477.2	4473.6	4496.9	4484.4	4421.7	4402.0
50°	4568.6	4559.6	4622.3	4685.0	4651.0	4593.7	4606.2	4643.8	4482.6	4398.4	4350.0
52.5°	4765.7	4767.5	4887.5	4921.5	4907.2	4823.0	4849.9	4747.7	4557.8	4439.6	4445.0
55°	5075.6	5063.1	5197.4	5297.8	5313.9	5206.4	5077.4	4934.1	4695.8	4575.8	4539.9
57°	4905.4	4934.1	5082.8	5380.2	5530.7	5403.5	5122.2	4860.6	4543.5	4398.4	4333.9
57.5°	4677.9	4724.5	4982.4	5281.6	5439.3	5428.6	5066.7	4724.5	4441.4	4215.6	4221.0
60°	3427.3	3436.3	3669.2	4144.0	4636.7	4647.4	4206.7	3753.4	3438.1	3192.6	3226.7
62.5°	1807.7	1848.9	1942.1	2323.7	2750.1	2854.0	2587.1	2354.2	2081.8	1895.5	1913.4
65°	956.7	951.3	996.1	1103.6	1313.2	1367.0	1331.2	1146.6	1051.7	1021.2	1023.0
67.5°	777.6	786.5	781.1	786.5	800.8	824.1	818.8	825.9	831.3	840.3	838.5
70°	659.3	659.3	662.9	664.7	664.7	675.4	688.0	711.3	713.1	722.0	725.6
72.5°	519.6	516.0	521.4	533.9	535.7	544.6	562.6	576.9	582.3	582.3	571.5
75°	352.9	356.5	363.7	374.4	385.2	401.3	415.7	424.6	428.2	422.8	417.4
77.5°	198.9	202.5	207.8	224.0	236.5	250.8	266.9	275.9	284.9	286.7	275.9
80°	118.2	118.2	127.2	139.7	154.1	168.4	182.7	193.5	197.1	197.1	191.7
82.5°	71.7	73.5	80.6	93.2	105.7	114.7	127.2	136.2	143.3	141.5	138.0
85°	37.6	37.6	44.8	55.5	64.5	73.5	73.5	68.1	64.5	55.5	52.0
87.5°	12.5	10.7	14.3	14.3	12.5	14.3	14.3	16.1	16.1	16.1	16.1
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)