

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: P528928

Luminaire Tested: **GALN-SA4A-740-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4A-740-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15348 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

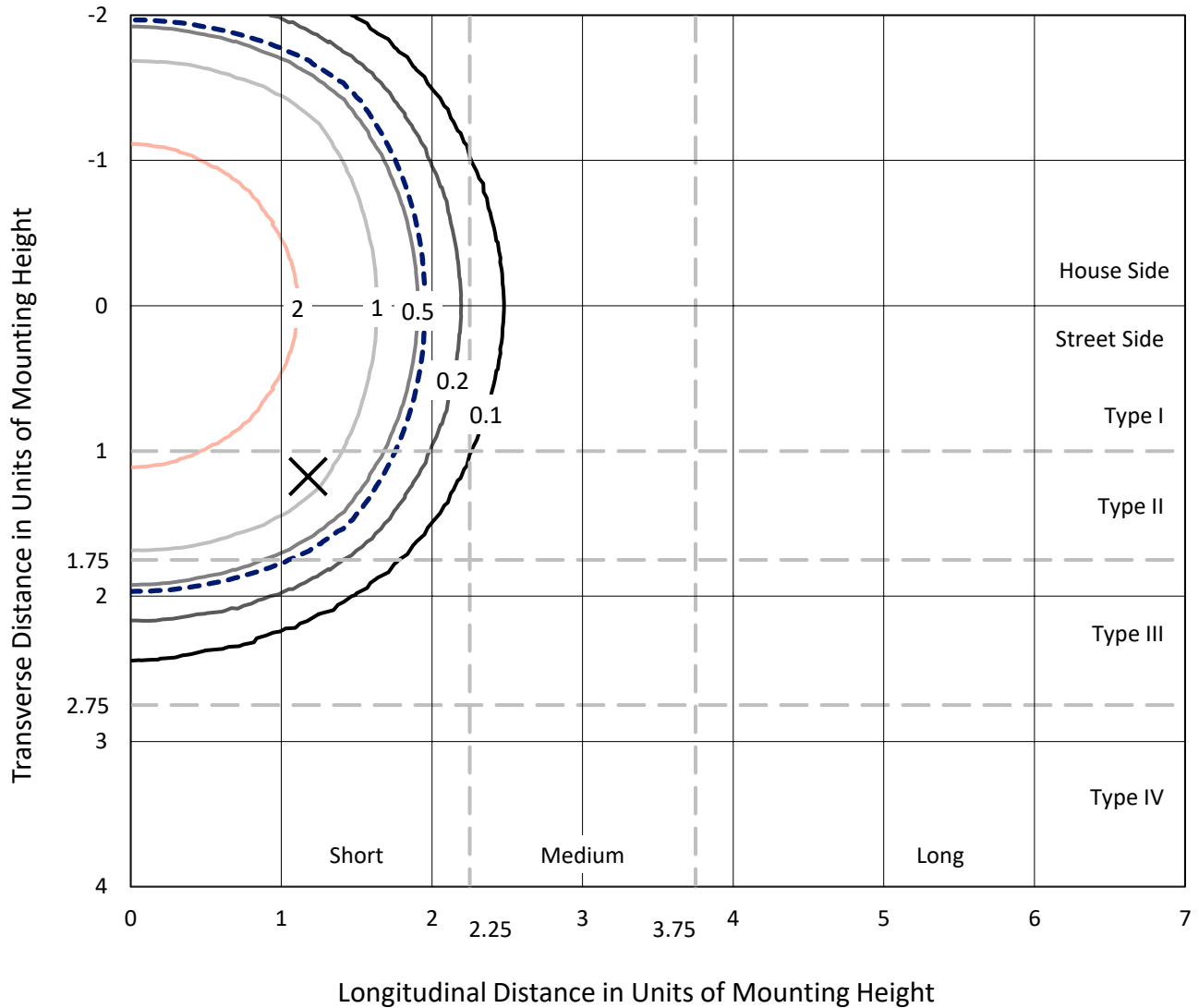
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

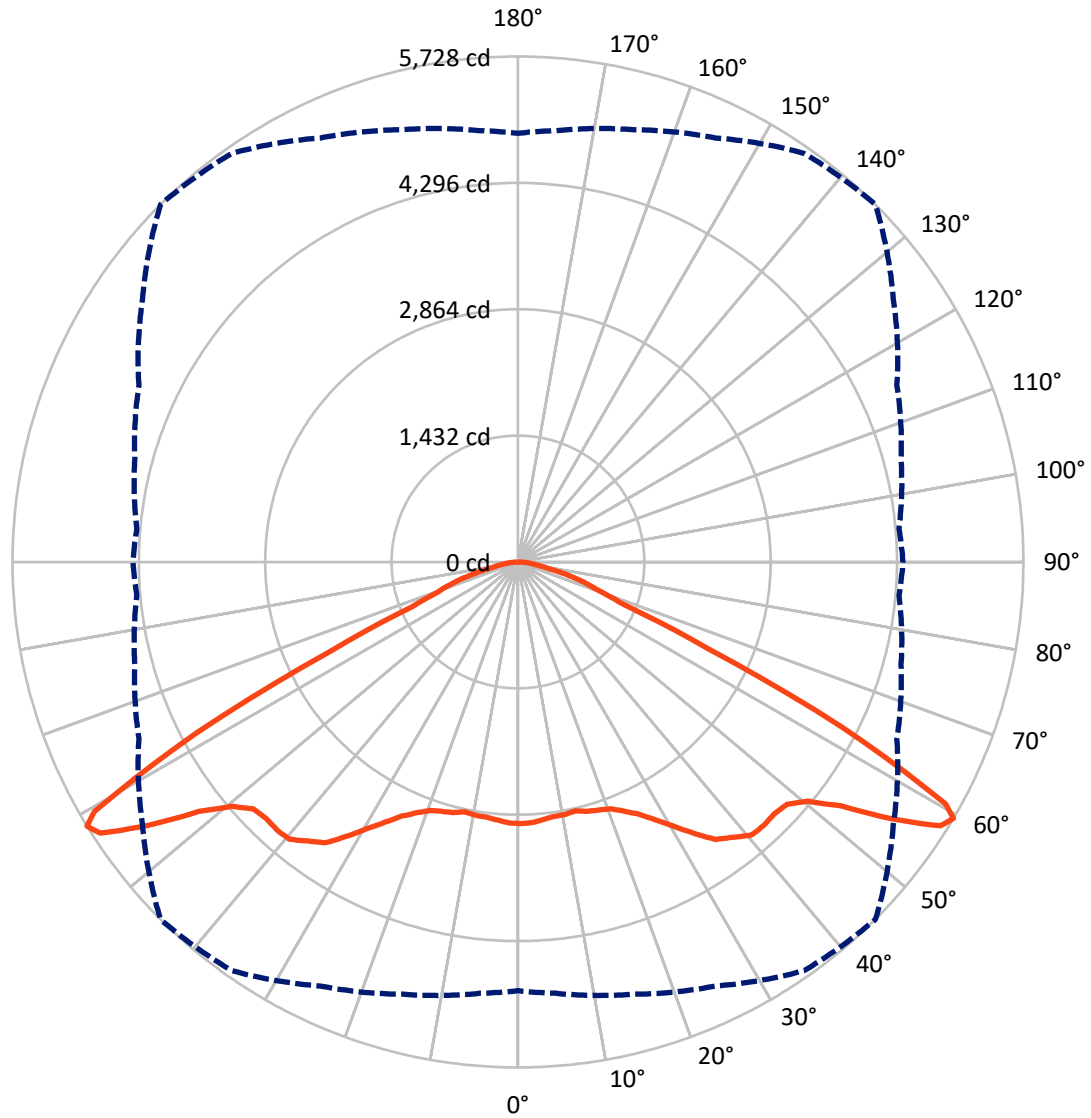
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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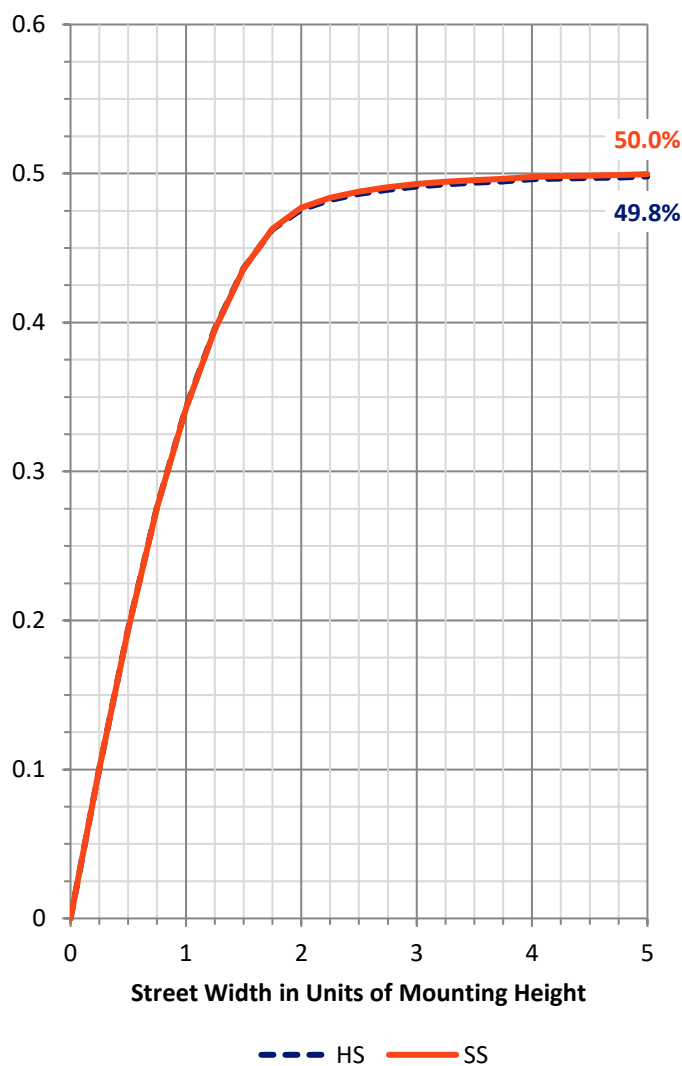
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7674.0	0.0	7674.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7674.0	0.0	7674.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15348.0	0.0	15348.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	279.5	1.8
10°-20°	831.1	5.4
20°-30°	1451.1	9.5
30°-40°	2317.6	15.1
40°-50°	3157.1	20.6
50°-60°	4269.2	27.8
60°-70°	2341.3	15.3
70°-80°	599.0	3.9
80°-90°	102.2	0.7
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°	15348.0	100.0
0°-180°	15348.0	100.0

Coefficient of Utilization



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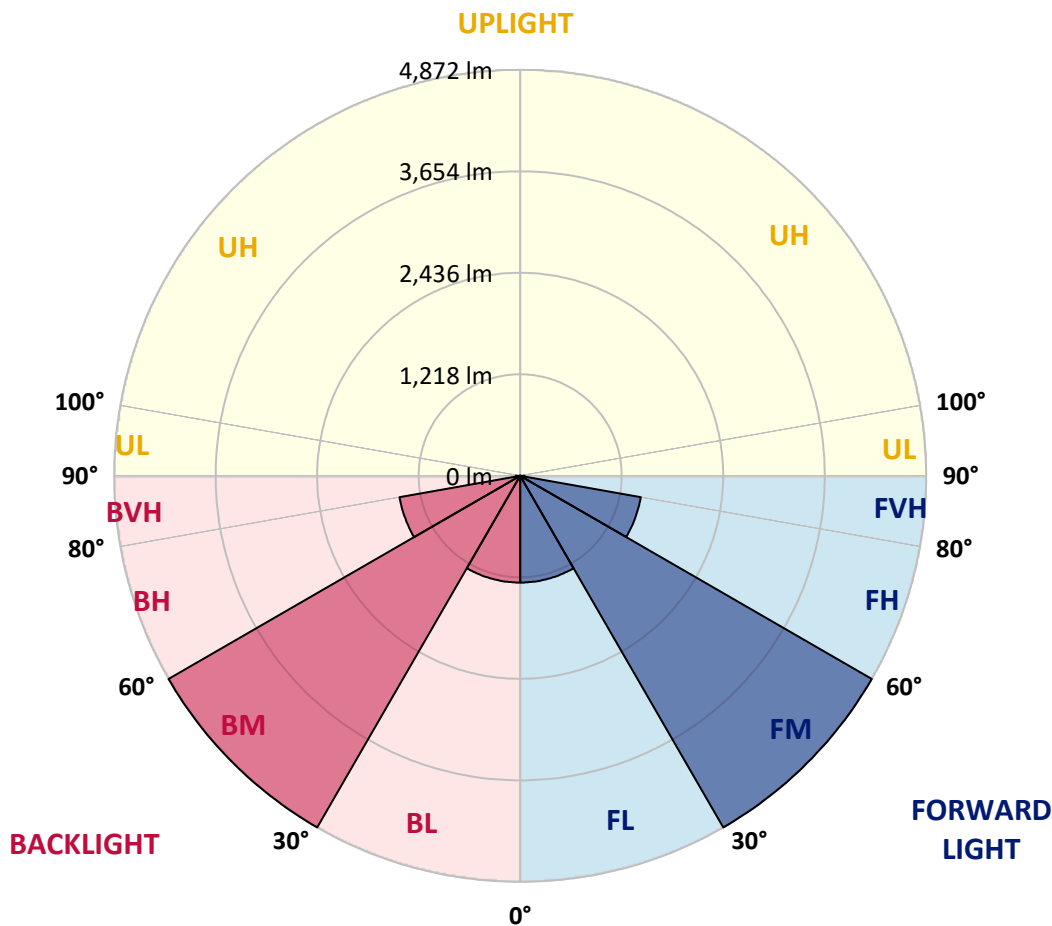
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.8	8.3			
FM (30°-60°)	4872.0	31.7			
FH (60°-80°)	1470.1	9.6			G1/1800
FVH (80°-90°)	51.1	0.3			G1/100
BL (0°-30°)	1280.8	8.3	B3/2500		
BM (30°-60°)	4872.0	31.7	B3/5000		
BH (60°-80°)	1470.1	9.6	B3/2500		G1/1800
BVH (80°-90°)	51.1	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°	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5	2964.5
2.5°	2946.8	2968.4	2952.7	2966.5	2964.5	2958.6	2948.8	2942.9	2935.0	2946.8	2927.1
5°	2935.0	2952.7	2970.4	2946.8	2946.8	2935.0	2929.1	2917.3	2917.3	2915.3	2913.4
7.5°	2954.7	2937.0	2929.1	2933.0	2937.0	2911.4	2929.1	2905.5	2885.8	2899.6	2915.3
10°	2937.0	2944.8	2915.3	2929.1	2907.5	2911.4	2899.6	2915.3	2893.7	2893.7	2893.7
12.5°	2954.7	2933.0	2942.9	2933.0	2927.1	2893.7	2909.4	2891.7	2889.7	2909.4	2891.7
15°	2990.1	2954.7	2946.8	2927.1	2933.0	2933.0	2917.3	2919.3	2897.6	2909.4	2913.4
17.5°	2978.3	2958.6	2952.7	2929.1	2948.8	2954.7	2925.2	2905.5	2919.3	2917.3	2915.3
20°	2988.1	2996.0	2990.1	2994.0	3001.9	2986.1	2958.6	2931.1	2913.4	2938.9	2937.0
22.5°	3051.1	3043.2	3039.3	3035.3	3049.1	3064.8	3027.4	2984.2	2984.2	3001.9	3009.7
25°	3102.2	3100.2	3098.3	3116.0	3163.2	3163.2	3116.0	3060.9	3047.1	3058.9	3049.1
27.5°	3177.0	3198.6	3190.7	3222.2	3291.0	3306.8	3243.8	3178.9	3141.5	3127.8	3145.5
30°	3348.1	3322.5	3328.4	3361.9	3422.8	3474.0	3377.6	3308.8	3257.6	3255.6	3263.5
32.5°	3462.2	3481.9	3499.6	3531.0	3627.4	3666.8	3550.7	3438.6	3407.1	3389.4	3395.3
35°	3690.4	3672.7	3668.7	3700.2	3796.6	3861.5	3716.0	3617.6	3576.3	3615.6	3615.6
37.5°	3906.8	3857.6	3820.2	3861.5	3950.0	3957.9	3834.0	3780.9	3759.2	3804.5	3802.5
40°	4009.1	4005.1	3918.6	3942.2	4060.2	4072.0	3955.9	3893.0	3889.1	3948.1	4007.1
42.5°	4115.3	4077.9	3991.4	4007.1	4079.9	4083.8	3973.6	3955.9	3999.2	4056.3	4060.2
45°	4133.0	4101.5	4046.4	4007.1	4060.2	4072.0	4007.1	4018.9	4022.8	4091.7	4091.7
47.5°	4168.4	4164.5	4133.0	4103.5	4113.3	4103.5	4062.2	4079.9	4138.9	4172.3	4156.6
50°	4266.8	4225.4	4256.9	4231.3	4233.3	4260.9	4223.5	4241.2	4229.4	4199.9	4180.2
52.5°	4483.1	4463.5	4491.0	4508.7	4528.4	4591.3	4548.1	4453.6	4365.1	4286.4	4284.5
55°	4799.9	4813.6	4866.7	4957.2	5033.9	5134.3	4925.8	4699.5	4557.9	4434.0	4441.8
57.5°	5098.9	5089.0	5161.8	5368.4	5592.6	5643.8	5234.6	4912.0	4681.8	4603.1	4569.7
59°	4858.9	4906.1	5071.3	5301.5	5653.6	5728.3	5193.3	4738.9	4494.9	4335.6	4363.1
60°	4481.2	4498.9	4646.4	4967.1	5443.1	5571.0	4915.9	4471.3	4146.8	4054.3	4095.6
62.5°	3167.1	3153.3	3259.6	3521.2	3948.1	4121.2	3655.0	3342.2	3137.6	3035.3	3058.9
65°	1683.9	1746.8	1790.1	1953.4	2179.6	2362.6	2169.8	2034.0	1919.9	1835.4	1833.4
67.5°	1137.0	1129.1	1139.0	1176.4	1253.1	1304.2	1300.3	1231.4	1221.6	1205.9	1223.6
70°	958.0	954.1	936.4	936.4	952.1	963.9	977.7	985.5	1001.3	1021.0	1019.0
72.5°	777.0	767.2	755.4	749.5	769.2	775.1	792.8	800.6	814.4	812.4	830.1
75°	513.4	513.4	527.2	542.9	548.8	560.6	562.6	586.2	586.2	590.1	574.4
77.5°	287.2	279.3	289.2	304.9	318.7	340.3	362.0	379.7	389.5	385.6	385.6
80°	167.2	167.2	177.0	194.7	212.5	232.1	247.9	261.6	271.5	267.5	259.7
82.5°	104.3	104.3	114.1	131.8	145.6	157.4	179.0	196.7	208.5	204.6	194.7
85°	53.1	53.1	64.9	76.7	94.4	102.3	100.3	92.5	90.5	80.7	80.7
87.5°	13.8	13.8	19.7	21.6	17.7	19.7	19.7	19.7	19.7	19.7	21.6
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)