

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: P457645

Luminaire Tested: **GALN-SA9A-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39516 lumens
Efficiency: N/A
Efficacy: 144.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

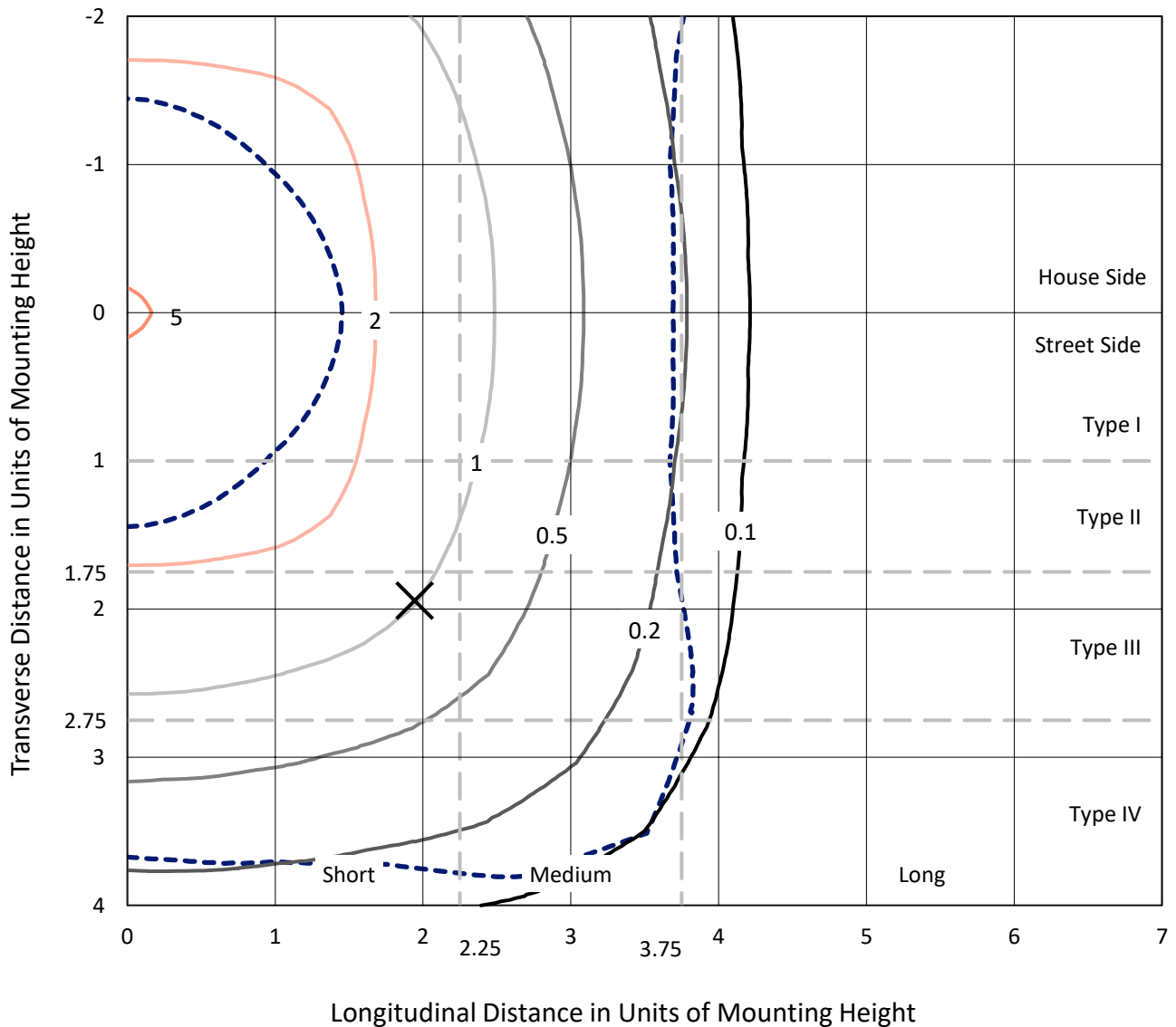
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

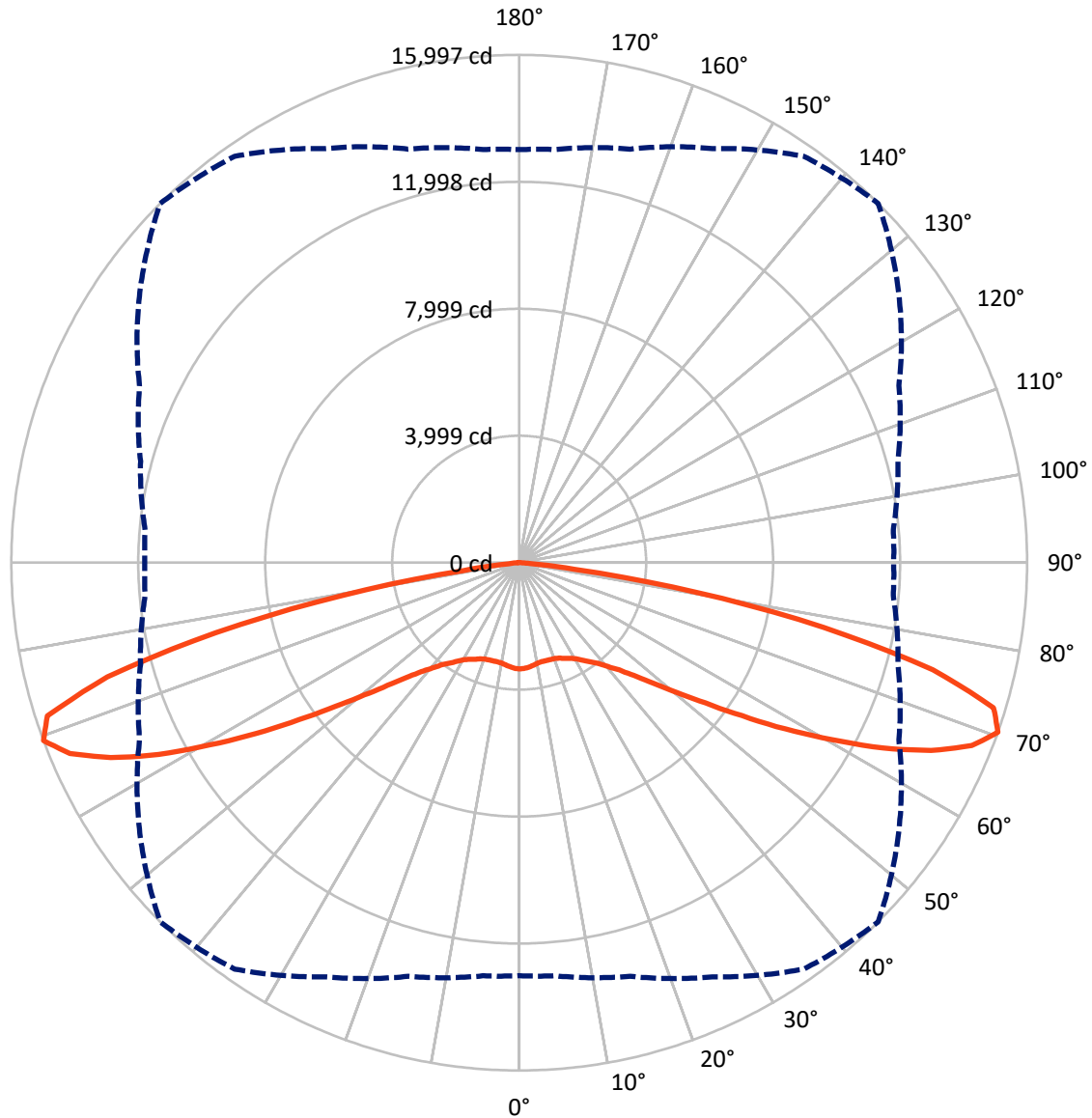
× Max cd
 - - - 1/2 Max cd



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 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19758.0	0.0	19758.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19758.0	0.0	19758.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	39516.0	0.0	39516.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.9	0.8
10°-20°	915.9	2.3
20°-30°	1560.6	3.9
30°-40°	2418.8	6.1
40°-50°	4071.2	10.3
50°-60°	7407.4	18.7
60°-70°	12540.6	31.7
70°-80°	9706.9	24.6
80°-90°	581.7	1.5
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°	39516.0	100.0
0°-180°	39516.0	100.0



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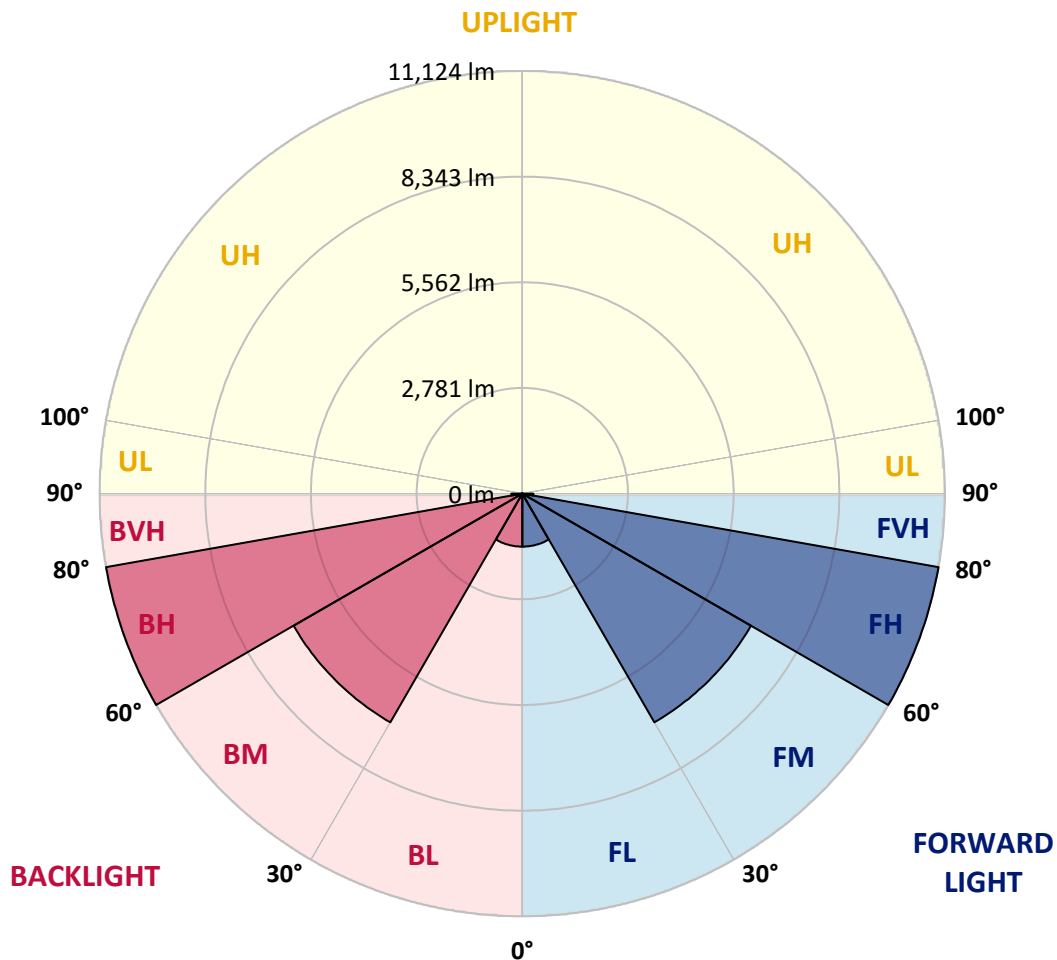
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1394.7	3.5			
FM (30°-60°)	6948.7	17.6			
FH (60°-80°)	11123.7	28.1			G4/12000
FVH (80°-90°)	290.8	0.7			G3/500
BL (0°-30°)	1394.7	3.5	B3/2500		
BM (30°-60°)	6948.7	17.6	B4/8500		
BH (60°-80°)	11123.7	28.1	B5		G4/12000
BVH (80°-90°)	290.8	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3345.5	3345.5	3345.5	3345.5	3345.5	3345.5	3345.5	3345.5	3345.5	3345.5	3345.5
2.5°	3337.2	3339.3	3339.3	3335.1	3333.0	3333.0	3330.9	3330.9	3337.2	3339.3	3341.3
5°	3307.9	3307.9	3307.9	3305.9	3301.7	3301.7	3297.5	3297.5	3299.6	3305.9	3301.7
7.5°	3268.3	3272.5	3272.5	3264.1	3257.9	3257.9	3255.8	3257.9	3259.9	3266.2	3264.1
10°	3255.8	3257.9	3247.4	3232.8	3222.4	3216.1	3218.2	3222.4	3232.8	3237.0	3239.1
12.5°	3264.1	3264.1	3245.3	3224.5	3205.7	3197.3	3195.2	3209.9	3228.6	3241.2	3245.3
15°	3274.6	3270.4	3247.4	3220.3	3201.5	3199.4	3197.3	3207.8	3234.9	3259.9	3262.0
17.5°	3280.8	3278.7	3249.5	3216.1	3205.7	3205.7	3203.6	3211.9	3241.2	3272.5	3274.6
20°	3301.7	3295.4	3262.0	3226.6	3218.2	3222.4	3216.1	3226.6	3257.9	3295.4	3303.8
22.5°	3343.4	3337.2	3303.8	3268.3	3264.1	3264.1	3262.0	3272.5	3305.9	3345.5	3351.8
25°	3393.5	3387.3	3355.9	3330.9	3335.1	3343.4	3339.3	3341.3	3368.5	3401.9	3412.3
27.5°	3460.3	3449.9	3422.7	3401.9	3414.4	3414.4	3414.4	3412.3	3429.0	3460.3	3470.7
30°	3541.7	3537.5	3508.3	3506.2	3516.6	3506.2	3506.2	3508.3	3510.4	3539.6	3550.0
32.5°	3648.1	3639.8	3625.2	3621.0	3650.2	3658.6	3629.3	3602.2	3616.8	3646.0	3652.3
35°	3823.4	3810.9	3790.1	3767.1	3790.1	3829.7	3767.1	3746.2	3783.8	3823.4	3827.6
37.5°	4061.4	4055.1	4021.7	3980.0	3977.9	4019.6	3954.9	3952.8	4023.8	4071.8	4078.1
40°	4359.8	4366.1	4324.3	4284.7	4263.8	4297.2	4247.1	4265.9	4334.8	4389.0	4384.9
42.5°	4779.3	4756.3	4691.6	4654.1	4631.1	4618.6	4606.1	4635.3	4712.5	4771.0	4816.9
45°	5269.8	5261.4	5180.0	5134.1	5084.0	5065.2	5061.1	5113.2	5207.1	5278.1	5284.4
47.5°	5824.9	5806.1	5753.9	5705.9	5687.2	5664.2	5643.3	5683.0	5776.9	5827.0	5841.6
50°	6396.8	6400.9	6400.9	6392.6	6411.4	6415.5	6359.2	6373.8	6426.0	6421.8	6417.6
52.5°	7050.0	7073.0	7181.5	7191.9	7281.7	7342.2	7239.9	7179.4	7160.6	7047.9	7056.3
55°	7818.0	7838.9	8001.7	8164.5	8406.6	8508.8	8293.9	8106.0	7972.5	7801.3	7809.7
57.5°	8776.0	8786.4	8940.8	9253.9	9637.9	9877.9	9500.2	9128.7	8857.4	8694.6	8629.9
60°	9807.0	9817.4	10042.8	10424.7	11021.6	11313.8	10846.3	10239.0	9896.7	9648.4	9665.0
62.5°	11044.6	11086.3	11288.8	11814.7	12538.9	12866.6	12246.7	11434.9	10971.5	10662.6	10675.2
65°	12369.8	12440.8	12662.0	13240.1	13908.0	14260.7	13501.0	12563.9	11987.9	11610.2	11649.8
67.5°	13229.7	13292.3	13611.6	14250.3	15083.0	15375.2	14394.3	13302.7	12582.7	12131.9	12048.4
70°	13010.6	13062.7	13488.5	14394.3	15627.7	15997.1	14607.1	13194.2	12346.9	11827.2	11793.8
72.5°	11484.9	11376.4	11998.4	13298.6	15005.8	15625.6	13937.2	12050.5	10984.1	10449.8	10387.2
75°	7611.4	7847.2	8765.5	10297.4	12695.4	13463.4	11896.1	9675.5	8333.5	7889.0	7820.1
77.5°	2544.1	2725.7	3541.7	5837.4	8654.9	9809.1	8667.4	6327.9	4476.7	3606.4	3623.1
80°	674.1	665.8	861.9	1604.9	3740.0	5680.9	4353.6	2143.4	1172.9	849.4	805.6
82.5°	242.1	271.3	348.5	444.5	991.3	1765.6	1246.0	601.1	440.4	325.6	315.1
85°	106.4	104.4	150.3	177.4	248.4	329.8	292.2	254.6	223.3	148.2	137.7
87.5°	23.0	23.0	35.5	27.1	43.8	43.8	54.3	64.7	66.8	43.8	35.5
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)