

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: P452627

Luminaire Tested: **GALN-SA3C-760-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452627
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-760-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21903 lumens
Efficiency: N/A
Efficacy: 136.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

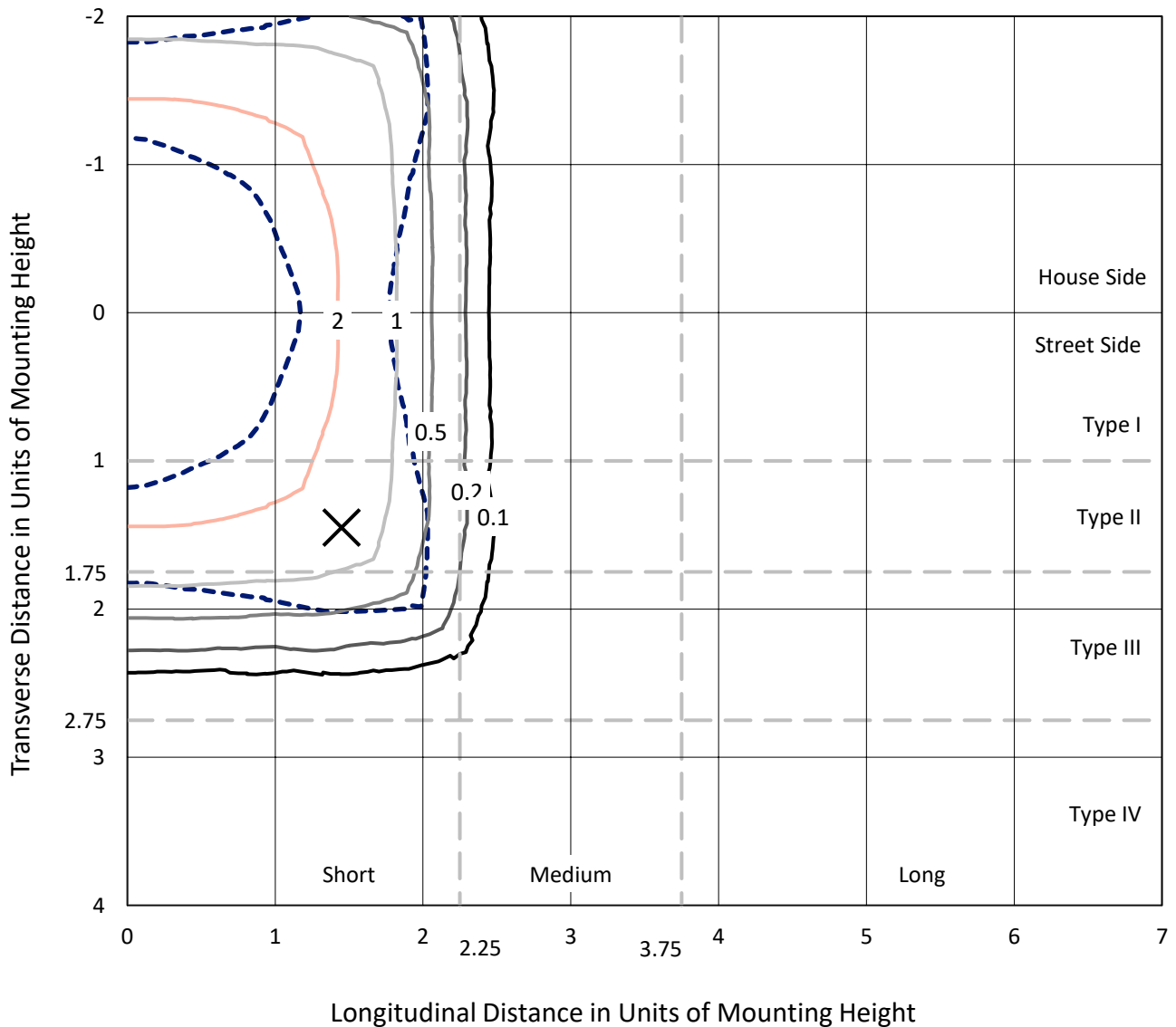
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

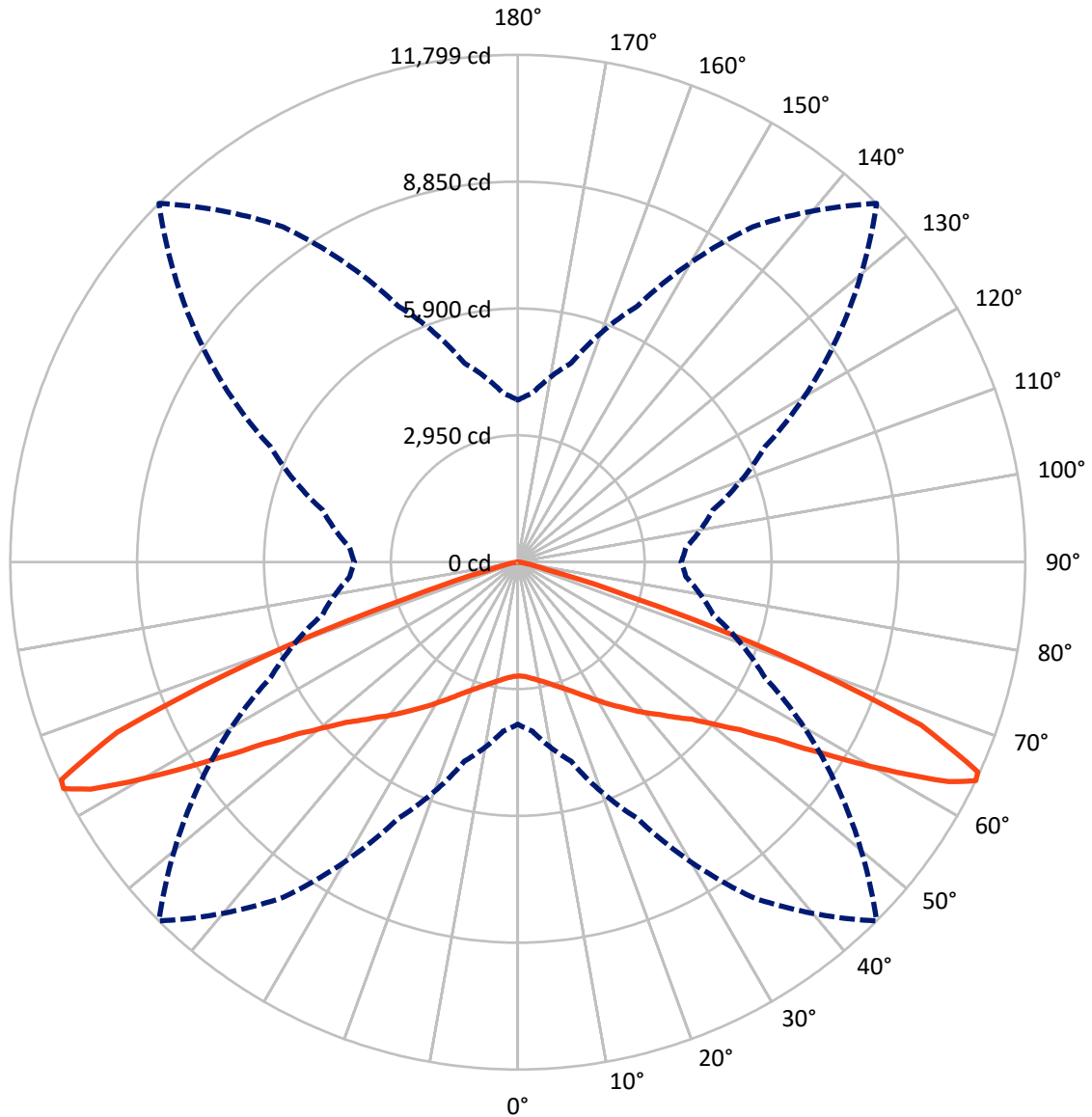
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10951.5	0.0	10951.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10951.5	0.0	10951.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	21903.0	0.0	21903.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.1	1.2
10°-20°	838.9	3.8
20°-30°	1585.4	7.2
30°-40°	2625.5	12.0
40°-50°	4098.9	18.7
50°-60°	6336.7	28.9
60°-70°	5464.1	24.9
70°-80°	619.2	2.8
80°-90°	74.2	0.3
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°	21903.0	100.0
0°-180°	21903.0	100.0

Coefficient of Utilization



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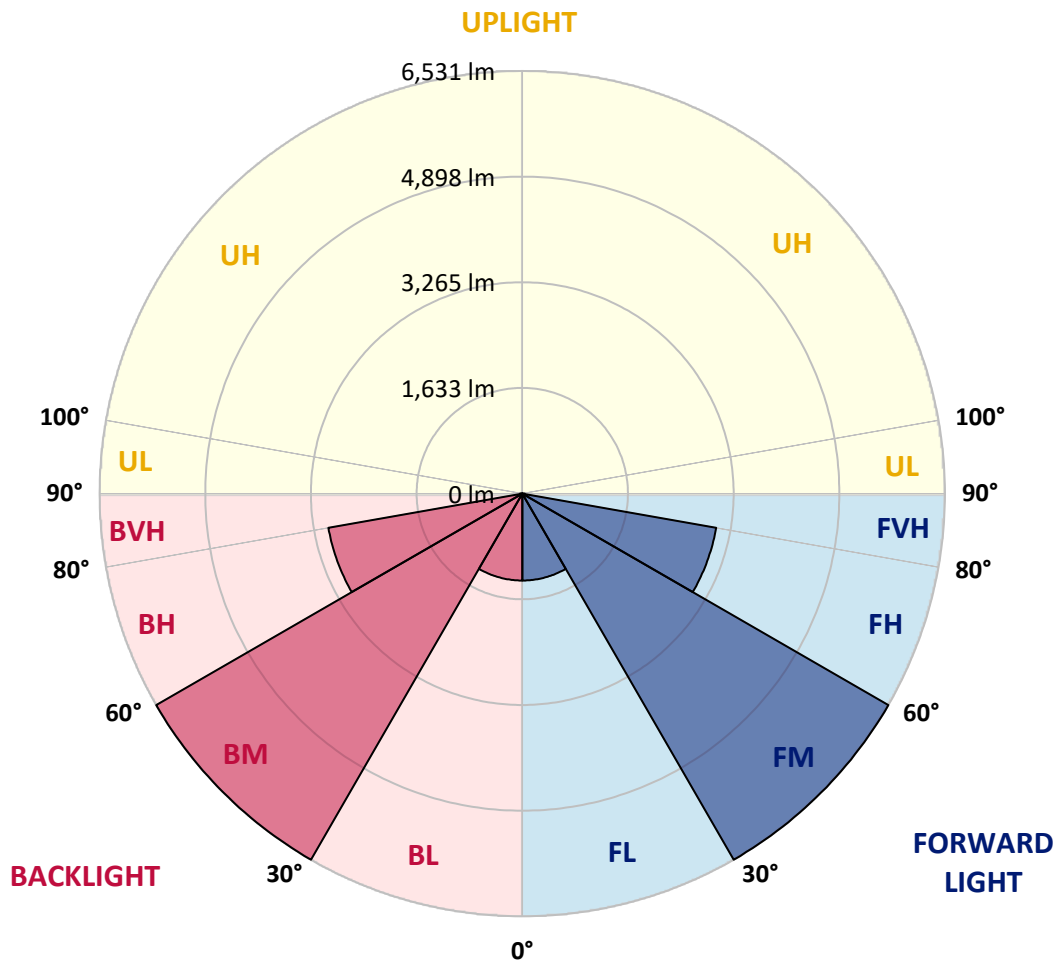
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1342.2	6.1			
FM	(30°-60°)	6530.6	29.8			
FH	(60°-80°)	3041.7	13.9			G2/5000
FVH	(80°-90°)	37.1	0.2			G1/100
BL	(0°-30°)	1342.2	6.1	B3/2500		
BM	(30°-60°)	6530.6	29.8	B4/8500		
BH	(60°-80°)	3041.7	13.9	B4/5000		G2/5000
BVH	(80°-90°)	37.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2647.3	2647.3	2647.3	2647.3	2647.3	2647.3	2647.3	2647.3	2647.3	2647.3	2647.3
2.5°	2657.8	2663.6	2658.9	2657.8	2656.6	2656.6	2656.6	2657.8	2662.4	2665.9	2663.6
5°	2691.4	2696.1	2693.7	2692.6	2691.4	2692.6	2690.3	2689.1	2692.6	2692.6	2691.4
7.5°	2733.2	2739.0	2736.7	2739.0	2740.2	2741.3	2735.5	2730.9	2729.7	2733.2	2730.9
10°	2790.0	2794.7	2795.8	2797.0	2799.3	2798.2	2791.2	2783.1	2781.9	2780.8	2779.6
12.5°	2853.8	2857.3	2858.5	2863.1	2866.6	2867.8	2859.6	2852.7	2841.1	2843.4	2838.8
15°	2925.8	2932.7	2931.6	2938.5	2947.8	2950.1	2942.0	2930.4	2920.0	2914.2	2910.7
17.5°	3013.9	3018.6	3016.3	3023.2	3034.8	3040.6	3033.7	3018.6	3008.1	2995.4	2988.4
20°	3118.3	3126.5	3128.8	3128.8	3139.2	3145.0	3134.6	3129.9	3113.7	3104.4	3098.6
22.5°	3236.7	3240.2	3247.1	3254.1	3264.5	3262.2	3258.7	3251.8	3236.7	3228.6	3219.3
25°	3370.1	3373.6	3391.0	3406.1	3409.5	3407.2	3402.6	3399.1	3385.2	3366.6	3359.6
27.5°	3525.5	3532.5	3555.7	3569.6	3569.6	3570.8	3561.5	3573.1	3542.9	3520.9	3518.6
30°	3720.4	3725.1	3744.8	3758.7	3751.8	3746.0	3743.6	3755.2	3722.8	3683.3	3674.0
32.5°	3913.0	3929.3	3946.7	3976.8	3952.5	3942.0	3939.7	3947.8	3910.7	3866.6	3853.8
35°	4119.5	4131.1	4163.6	4189.1	4167.1	4142.7	4153.2	4178.7	4134.6	4075.4	4073.1
37.5°	4348.1	4358.5	4400.3	4426.9	4410.7	4368.9	4386.3	4416.5	4372.4	4299.3	4284.2
40°	4585.9	4607.9	4660.1	4688.0	4661.3	4605.6	4638.1	4670.6	4631.1	4546.4	4512.8
42.5°	4852.7	4887.5	4962.9	4976.8	4925.8	4850.4	4907.2	4959.4	4931.6	4834.1	4821.4
45°	5164.8	5185.6	5278.5	5308.6	5237.8	5143.9	5214.6	5309.8	5288.9	5176.4	5152.0
47.5°	5514.0	5533.7	5630.0	5675.2	5585.9	5459.4	5587.0	5711.2	5698.4	5577.8	5566.2
50°	5926.9	5931.6	6065.0	6116.0	6026.7	5917.7	6031.4	6185.6	6134.6	5980.3	5978.0
52.5°	6379.4	6385.2	6553.4	6652.0	6602.1	6479.2	6613.7	6707.7	6577.8	6375.9	6360.8
55°	6771.5	6800.5	7030.2	7292.4	7360.8	7271.5	7312.1	7268.0	6947.8	6664.8	6620.7
57.5°	6931.6	6988.4	7337.6	7827.2	8272.7	8404.9	8091.7	7671.7	7095.2	6694.9	6652.0
60°	6540.6	6602.1	7143.9	8073.1	9210.0	9784.3	8903.8	7740.2	6759.9	6197.2	6130.0
62.5°	5237.8	5255.2	6052.2	7494.2	9756.4	11243.7	9246.0	7156.7	5784.3	5019.7	4993.1
64°	3769.2	3947.8	4792.4	6570.8	9517.5	11799.4	9048.8	6338.8	4698.4	3924.6	3799.3
65°	2819.0	2867.8	3863.1	5611.4	9096.3	11757.6	8665.9	5556.9	3891.0	3003.5	2864.3
67.5°	1065.0	1070.8	1425.8	2797.0	6475.7	10116.1	6613.7	3023.2	1639.2	1185.6	1142.7
70°	442.0	450.1	523.2	940.8	2783.1	6495.4	3189.1	1090.5	599.8	486.1	479.1
72.5°	323.7	328.3	350.3	417.6	856.2	2667.1	1048.7	462.9	351.5	314.4	310.9
75°	254.1	256.4	272.6	307.4	399.1	739.0	436.2	317.9	268.0	241.3	239.0
77.5°	193.7	199.5	211.1	234.3	268.0	350.3	288.9	237.8	206.5	184.5	181.0
80°	133.4	140.4	162.4	171.7	179.8	227.4	197.2	179.8	161.3	134.6	126.5
82.5°	82.4	87.0	109.0	117.2	113.7	127.6	126.5	128.8	114.8	83.5	77.7
85°	42.9	45.2	59.2	61.5	56.8	52.2	65.0	75.4	70.8	47.6	46.4
87.5°	9.3	10.4	12.8	11.6	12.8	12.8	16.2	24.4	25.5	16.2	15.1
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)