

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: P454163

Luminaire Tested: **GALN-SA5B-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454163
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27218 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 204
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

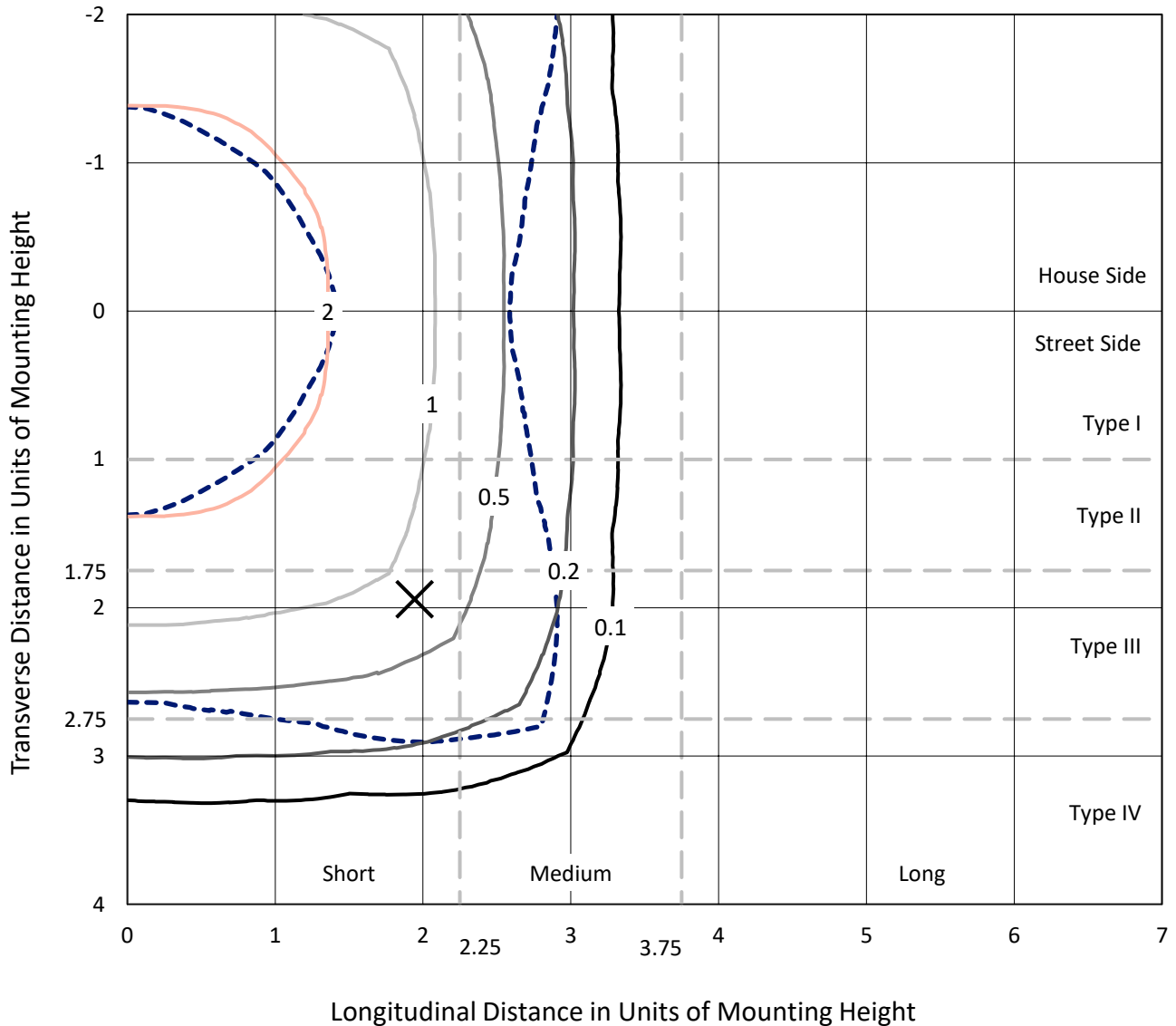




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Iso-Footcandle Lines of Horizontal Illumination

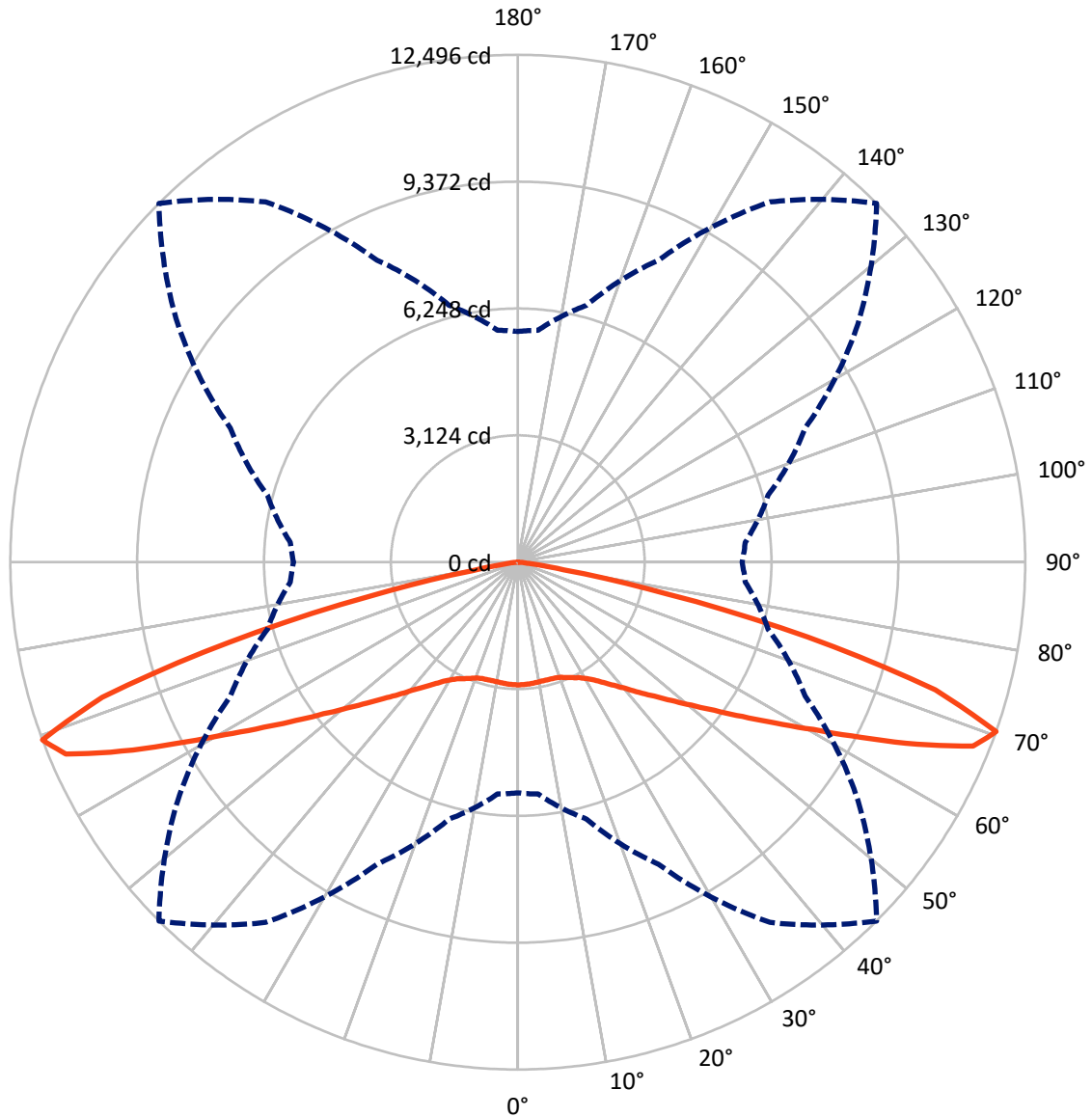
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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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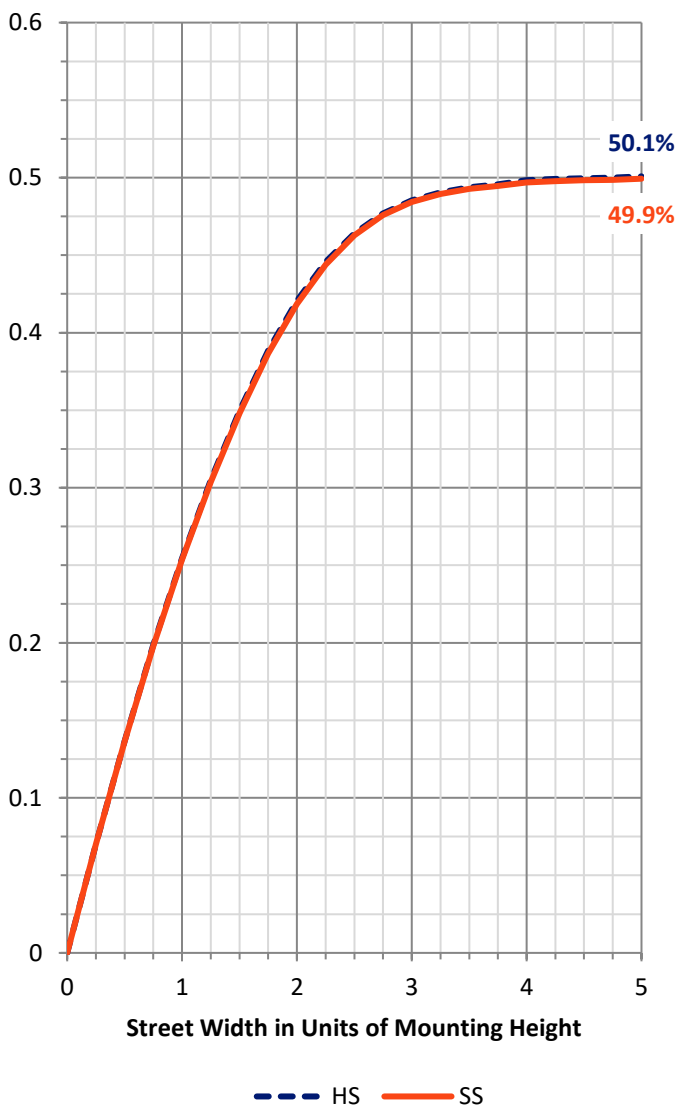
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13609.0	0.0	13609.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13609.0	0.0	13609.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27218.0	0.0	27218.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.6	1.1
10°-20°	841.0	3.1
20°-30°	1438.4	5.3
30°-40°	2283.1	8.4
40°-50°	3683.3	13.5
50°-60°	5992.8	22.0
60°-70°	8687.4	31.9
70°-80°	3853.4	14.2
80°-90°	152.0	0.6
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°	27218.0	100.0
0°-180°	27218.0	100.0



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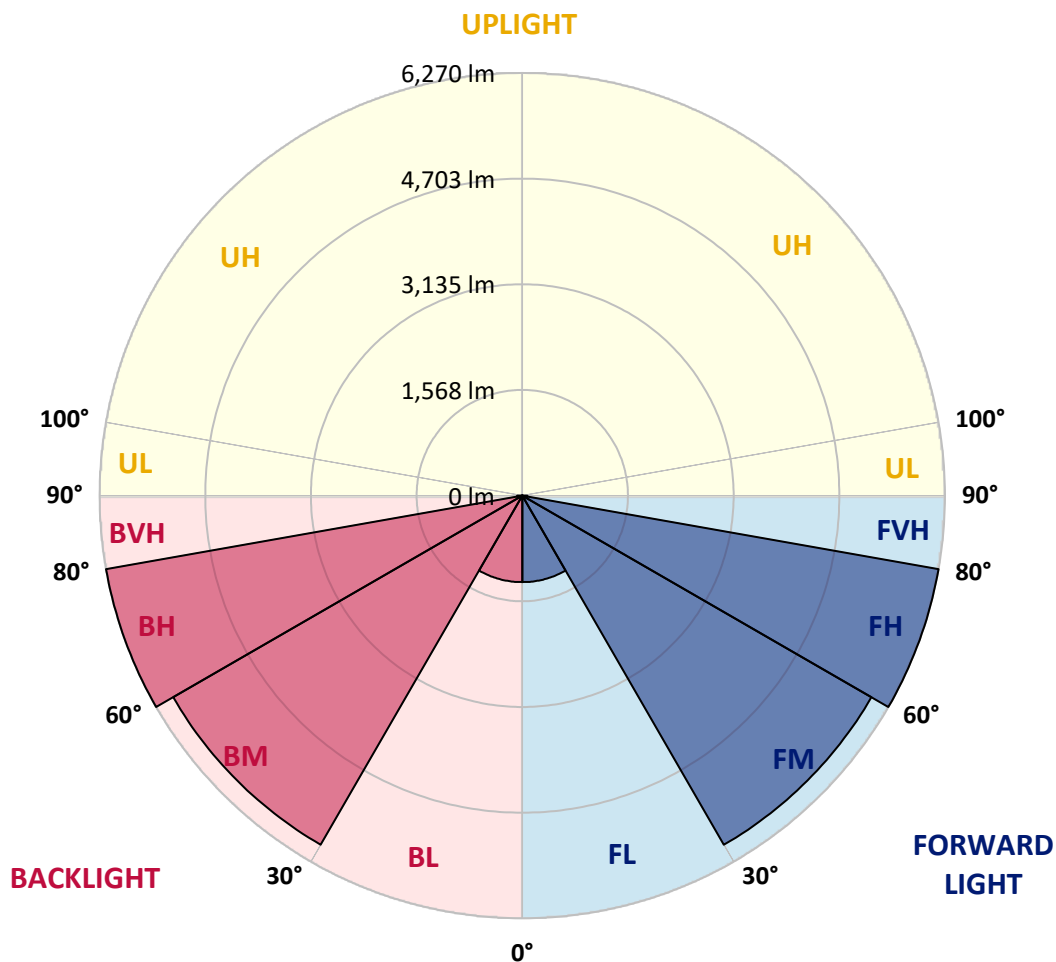
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1283.0	4.7			
FM (30°-60°)	5979.6	22.0			
FH (60°-80°)	6270.4	23.0			G3/7500
FVH (80°-90°)	76.0	0.3			G1/100
BL (0°-30°)	1283.0	4.7	B3/2500		
BM (30°-60°)	5979.6	22.0	B4/8500		
BH (60°-80°)	6270.4	23.0	B5		G3/7500
BVH (80°-90°)	76.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3022.4	3022.4	3022.4	3022.4	3022.4	3022.4	3022.4	3022.4	3022.4	3022.4	3022.4
2.5°	3022.4	3025.3	3021.0	3018.1	3016.7	3016.7	3015.3	3016.7	3025.3	3026.7	3022.4
5°	3013.8	3016.7	3015.3	3012.4	3011.0	3011.0	3009.5	3008.1	3015.3	3018.1	3016.7
7.5°	3002.3	3003.8	3002.3	3000.9	3002.3	3000.9	2996.6	2993.7	2999.5	2999.5	2998.0
10°	2982.3	2985.1	2983.7	2985.1	2988.0	2988.0	2982.3	2976.5	2978.0	2975.1	2975.1
12.5°	2957.9	2962.2	2963.6	2969.4	2976.5	2985.1	2972.2	2959.3	2956.4	2955.0	2953.6
15°	2942.1	2946.4	2952.1	2957.9	2970.8	2989.4	2970.8	2950.7	2945.0	2939.2	2936.4
17.5°	2937.8	2943.5	2952.1	2960.7	2978.0	2996.6	2980.8	2960.7	2946.4	2937.8	2934.9
20°	2949.3	2953.6	2966.5	2982.3	3006.7	3025.3	3009.5	2988.0	2966.5	2953.6	2949.3
22.5°	2972.2	2979.4	2995.2	3023.9	3058.3	3085.5	3064.0	3028.2	2993.7	2976.5	2970.8
25°	3022.4	3028.2	3046.8	3085.5	3125.7	3151.5	3128.6	3087.0	3039.6	3016.7	3009.5
27.5°	3098.5	3107.1	3127.1	3173.1	3206.0	3220.4	3204.6	3175.9	3141.5	3117.1	3111.4
30°	3206.0	3216.1	3246.2	3295.0	3316.5	3325.1	3317.9	3299.3	3274.9	3249.1	3243.3
32.5°	3350.9	3356.7	3391.1	3437.0	3457.1	3459.9	3451.3	3442.7	3402.6	3359.5	3356.7
35°	3513.0	3523.1	3564.7	3619.2	3637.8	3639.3	3622.0	3609.1	3561.8	3527.4	3527.4
37.5°	3728.2	3732.5	3772.7	3834.3	3854.4	3848.7	3840.1	3828.6	3778.4	3733.9	3735.4
40°	3980.7	3989.3	4023.7	4095.4	4095.4	4088.2	4094.0	4085.4	4035.2	3992.1	3993.6
42.5°	4280.5	4284.8	4326.4	4402.4	4396.7	4382.3	4388.0	4376.6	4345.0	4296.2	4279.0
45°	4600.3	4617.6	4689.3	4762.4	4751.0	4705.1	4728.0	4725.1	4696.5	4623.3	4627.6
47.5°	4986.2	5014.9	5083.8	5171.3	5158.4	5086.6	5112.5	5129.7	5089.5	5009.2	4994.8
50°	5420.9	5439.5	5541.4	5623.1	5611.7	5535.6	5594.4	5597.3	5496.9	5383.6	5383.6
52.5°	5884.2	5902.8	6040.6	6168.2	6175.4	6064.9	6112.3	6109.4	5945.9	5796.7	5768.0
55°	6403.5	6412.1	6590.0	6777.9	6818.0	6710.5	6716.2	6658.8	6446.5	6272.9	6257.2
57.5°	6940.0	6971.5	7168.1	7411.9	7531.0	7465.0	7434.9	7281.4	7076.2	6876.9	6866.8
60°	7533.8	7535.3	7790.6	8078.9	8319.9	8364.4	8241.0	8035.9	7770.5	7506.6	7495.1
62.5°	7945.5	8007.2	8330.0	8817.7	9249.5	9499.1	9173.4	8743.1	8221.0	7794.9	7751.9
65°	8030.2	8071.8	8563.8	9390.0	10272.2	10810.2	10057.1	9141.9	8251.1	7683.0	7654.3
67.5°	7345.9	7390.4	8053.1	9321.2	10989.5	12092.6	10630.9	8949.7	7740.4	7037.5	6981.6
70°	5681.9	5732.1	6551.2	8205.2	10830.3	12495.7	10222.0	7806.4	6383.4	5624.6	5522.7
72.5°	3021.0	3206.0	3906.1	5631.7	8790.4	10758.5	8381.6	5696.3	4116.9	3365.3	3230.4
75°	1103.1	1126.1	1516.2	2497.4	5113.9	7377.5	5310.4	2716.9	1562.1	1206.4	1144.7
77.5°	456.2	454.7	499.2	754.5	1857.6	3778.4	2072.8	797.6	497.8	460.5	454.7
80°	269.7	269.7	296.9	314.1	489.2	1140.4	546.5	355.7	298.4	272.5	276.9
82.5°	120.5	127.7	187.9	198.0	236.7	312.7	263.9	226.6	195.1	134.8	121.9
85°	66.0	57.4	99.0	103.3	113.3	116.2	124.8	123.4	113.3	66.0	67.4
87.5°	12.9	15.8	28.7	21.5	24.4	21.5	28.7	40.2	41.6	23.0	18.6
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)