

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: P456949

Luminaire Tested: **GALN-SA8B-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456949
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-SA8B-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43796 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

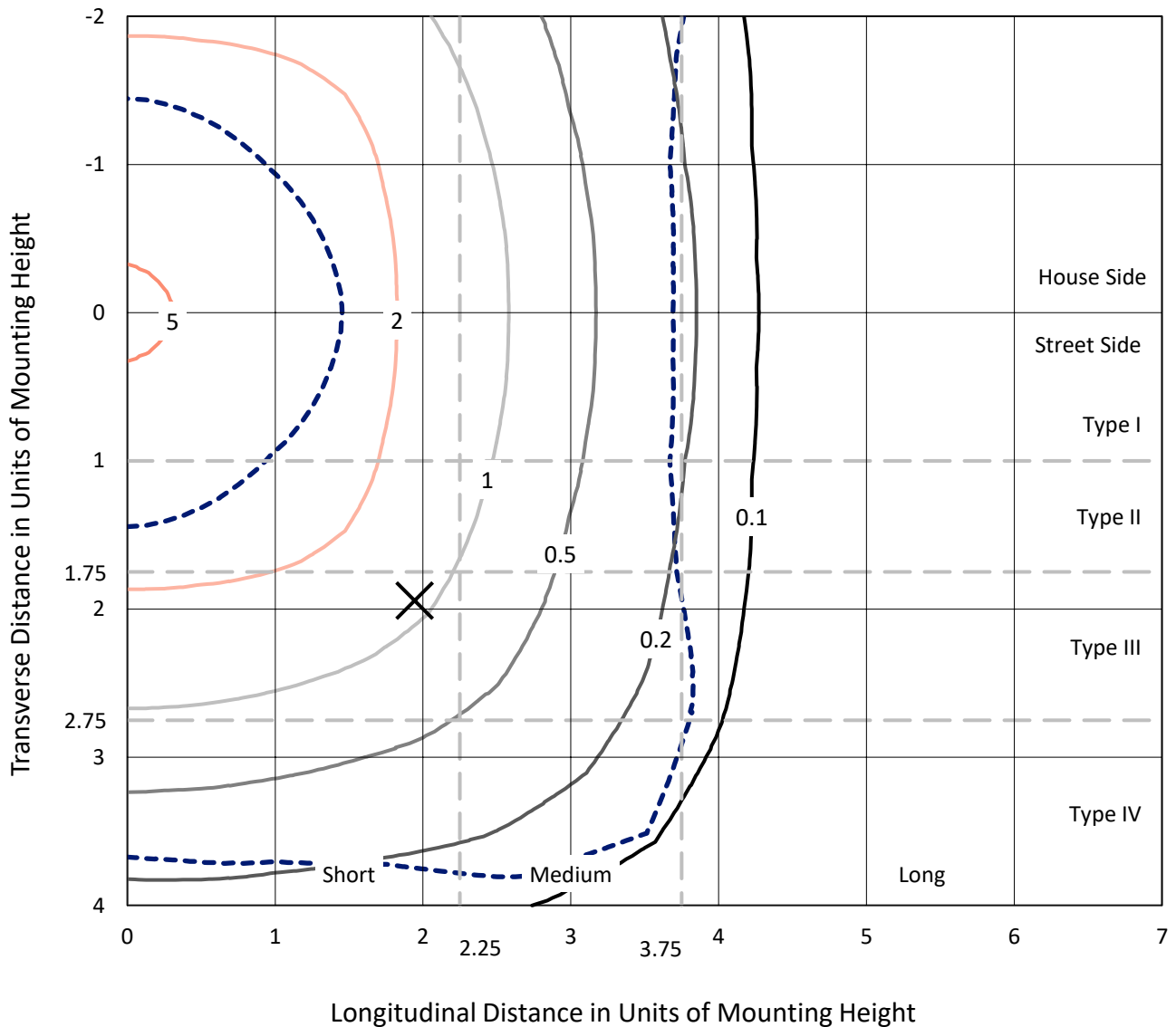
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

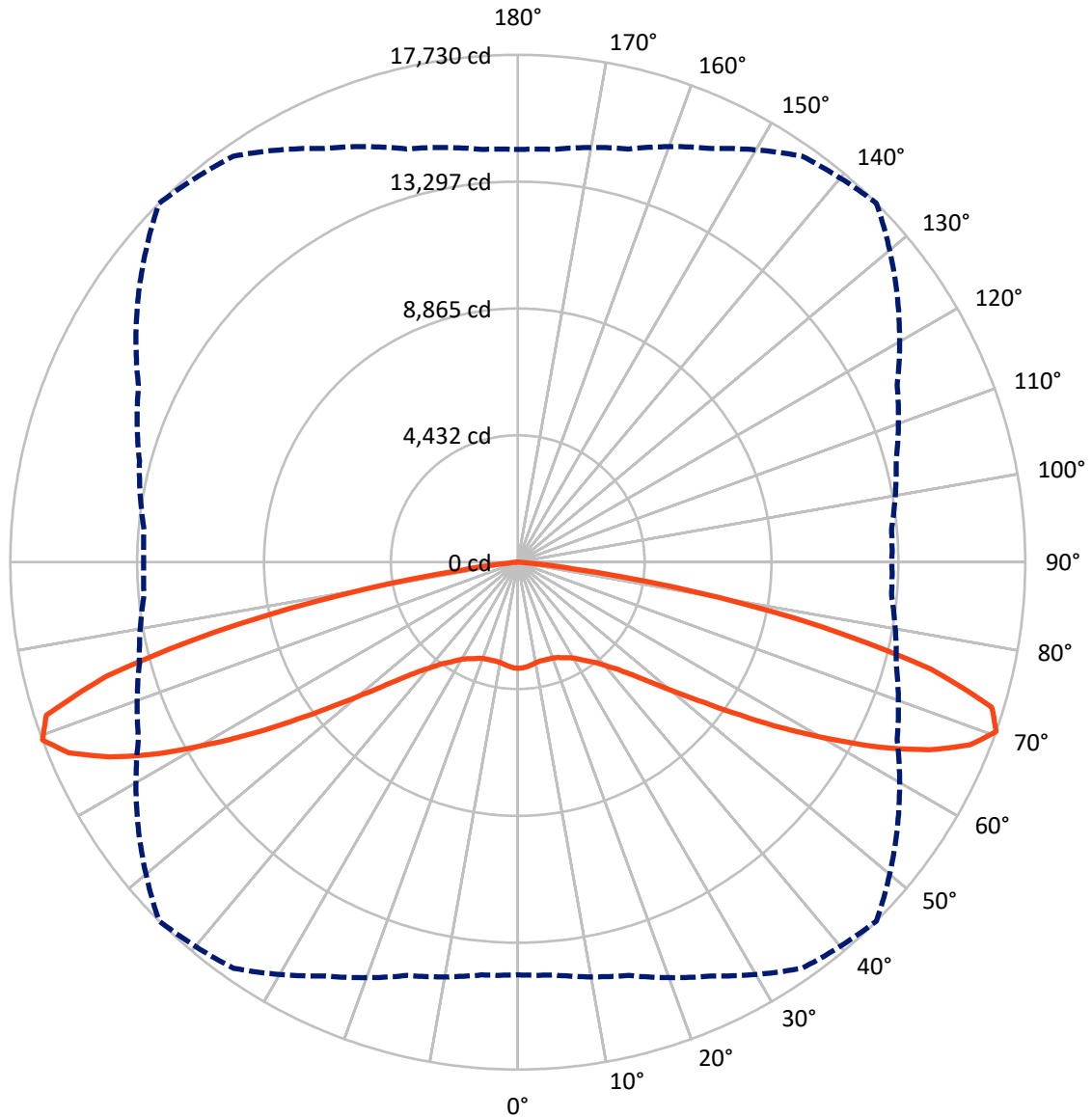
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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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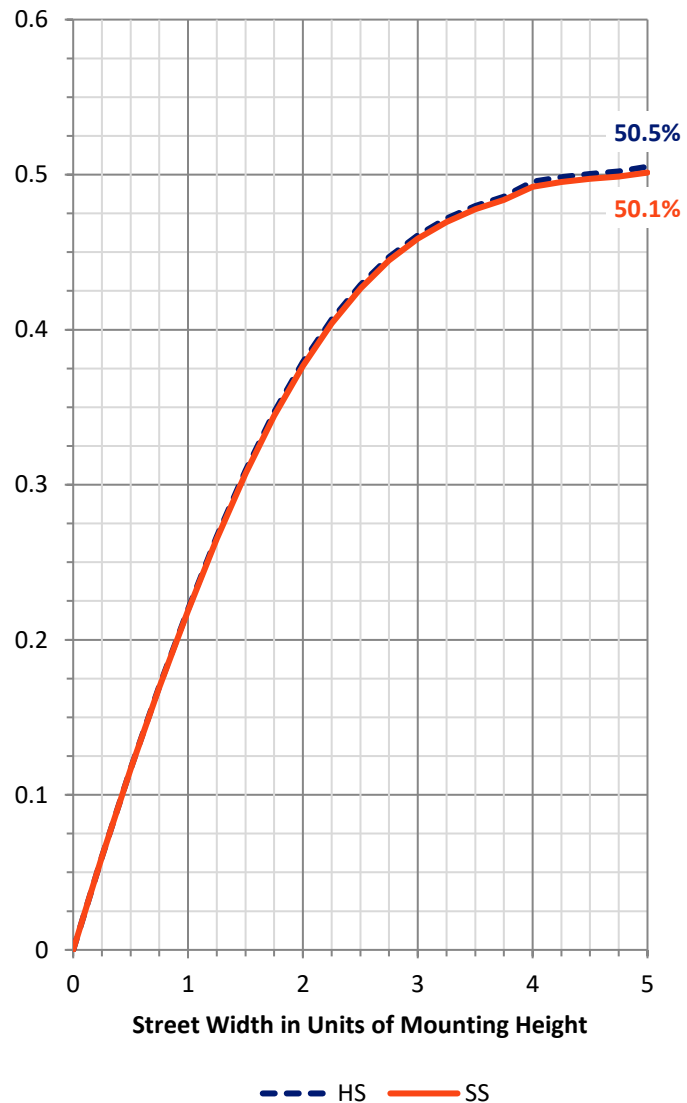
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21898.0	0.0	21898.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21898.0	0.0	21898.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	43796.0	0.0	43796.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	346.8	0.8
10°-20°	1015.1	2.3
20°-30°	1729.6	3.9
30°-40°	2680.8	6.1
40°-50°	4512.2	10.3
50°-60°	8209.7	18.7
60°-70°	13898.9	31.7
70°-80°	10758.3	24.6
80°-90°	644.7	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°	43796.0	100.0
0°-180°	43796.0	100.0



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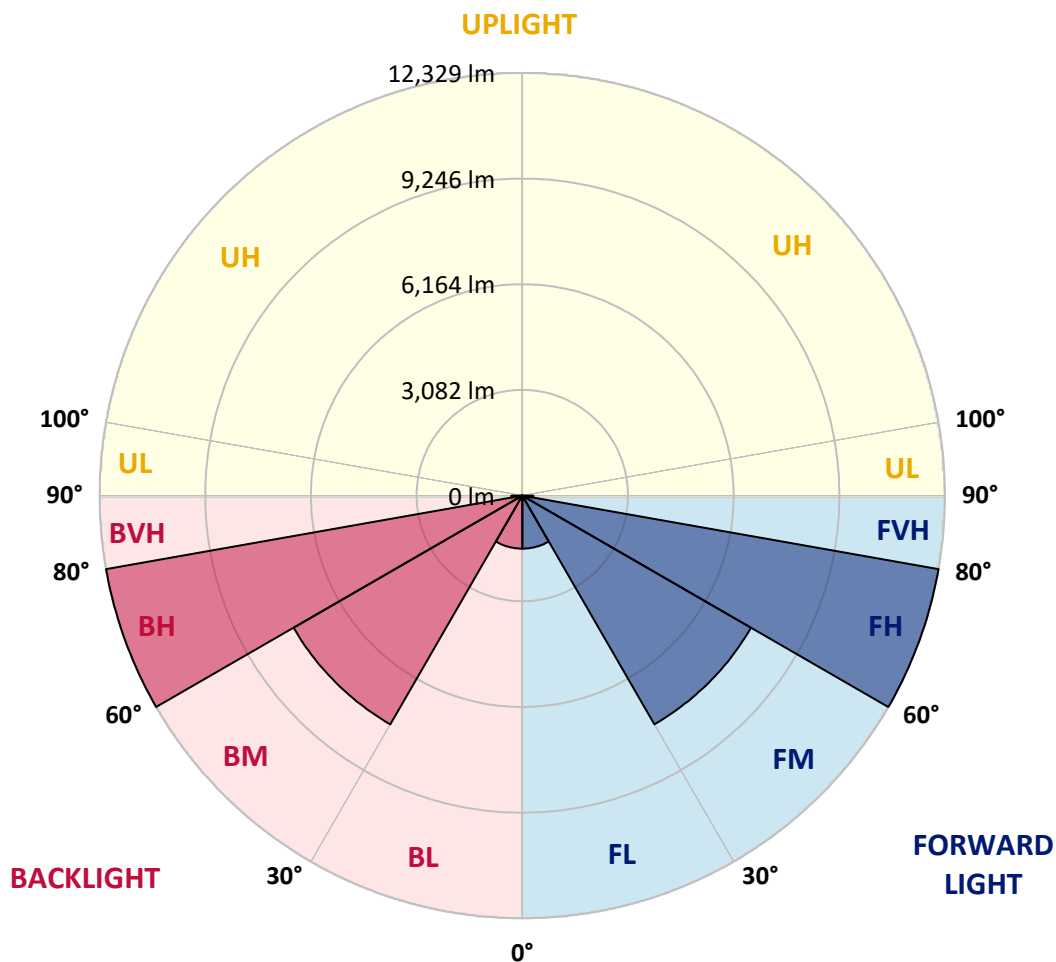
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1545.7	3.5			
FM (30°-60°)	7701.4	17.6			
FH (60°-80°)	12328.6	28.1			G5
FVH (80°-90°)	322.3	0.7			G3/500
BL (0°-30°)	1545.7	3.5	B3/2500		
BM (30°-60°)	7701.4	17.6	B4/8500		
BH (60°-80°)	12328.6	28.1	B5		G5
BVH (80°-90°)	322.3	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3707.9	3707.9	3707.9	3707.9	3707.9	3707.9	3707.9	3707.9	3707.9	3707.9	3707.9
2.5°	3698.6	3700.9	3700.9	3696.3	3694.0	3694.0	3691.7	3691.7	3698.6	3700.9	3703.2
5°	3666.2	3666.2	3666.2	3663.9	3659.3	3659.3	3654.7	3654.7	3657.0	3663.9	3659.3
7.5°	3622.3	3626.9	3626.9	3617.7	3610.7	3610.7	3608.4	3610.7	3613.0	3620.0	3617.7
10°	3608.4	3610.7	3599.2	3583.0	3571.4	3564.5	3566.8	3571.4	3583.0	3587.6	3589.9
12.5°	3617.7	3617.7	3596.8	3573.7	3552.9	3543.6	3541.3	3557.5	3578.3	3592.2	3596.8
15°	3629.2	3624.6	3599.2	3569.1	3548.3	3546.0	3543.6	3555.2	3585.3	3613.0	3615.3
17.5°	3636.2	3633.8	3601.5	3564.5	3552.9	3552.9	3550.6	3559.8	3592.2	3626.9	3629.2
20°	3659.3	3652.4	3615.3	3576.0	3566.8	3571.4	3564.5	3576.0	3610.7	3652.4	3661.6
22.5°	3705.6	3698.6	3661.6	3622.3	3617.7	3617.7	3615.3	3626.9	3663.9	3707.9	3714.8
25°	3761.1	3754.1	3719.4	3691.7	3696.3	3705.6	3700.9	3703.2	3733.3	3770.3	3781.9
27.5°	3835.1	3823.5	3793.5	3770.3	3784.2	3784.2	3784.2	3781.9	3800.4	3835.1	3846.7
30°	3925.3	3920.7	3888.3	3886.0	3897.5	3886.0	3886.0	3888.3	3890.6	3923.0	3934.5
32.5°	4043.3	4034.0	4017.8	4013.2	4045.6	4054.8	4022.4	3992.4	4008.6	4041.0	4047.9
35°	4237.6	4223.7	4200.6	4175.1	4200.6	4244.5	4175.1	4152.0	4193.6	4237.6	4242.2
37.5°	4501.3	4494.3	4457.3	4411.0	4408.7	4455.0	4383.3	4381.0	4459.6	4512.8	4519.8
40°	4832.0	4839.0	4792.7	4748.8	4725.6	4762.6	4707.1	4727.9	4804.3	4864.4	4859.8
42.5°	5297.0	5271.5	5199.8	5158.2	5132.7	5118.8	5105.0	5137.4	5222.9	5287.7	5338.6
45°	5840.5	5831.3	5741.1	5690.2	5634.7	5613.8	5609.2	5667.0	5771.1	5849.8	5856.7
47.5°	6455.8	6435.0	6377.2	6324.0	6303.1	6277.7	6254.6	6298.5	6402.6	6458.1	6474.3
50°	7089.6	7094.2	7094.2	7085.0	7105.8	7110.4	7048.0	7064.1	7122.0	7117.3	7112.7
52.5°	7813.6	7839.0	7959.3	7970.9	8070.3	8137.4	8024.1	7957.0	7936.2	7811.3	7820.5
55°	8664.8	8687.9	8868.3	9048.8	9317.1	9430.4	9192.2	8984.0	8836.0	8646.3	8655.5
57.5°	9726.5	9738.1	9909.2	10256.2	10681.8	10947.8	10529.1	10117.4	9816.7	9636.3	9564.6
60°	10869.2	10880.7	11130.5	11553.8	12215.4	12539.2	12021.1	11348.0	10968.6	10693.4	10711.9
62.5°	12240.8	12287.1	12511.5	13094.3	13897.0	14260.1	13573.2	12673.4	12159.9	11817.5	11831.4
65°	13709.6	13788.3	14033.5	14674.2	15414.4	15805.3	14963.3	13924.7	13286.3	12867.7	12911.6
67.5°	14662.6	14732.0	15085.9	15793.7	16716.6	17040.5	15953.3	14743.6	13945.6	13445.9	13353.4
70°	14419.7	14477.6	14949.4	15953.3	17320.3	17729.8	16189.2	14623.3	13684.2	13108.2	13071.2
72.5°	12728.9	12608.6	13297.9	14738.9	16631.0	17318.0	15446.8	13355.7	12173.7	11581.6	11512.2
75°	8435.8	8697.2	9714.9	11412.7	14070.5	14921.7	13184.6	10723.4	9236.1	8743.4	8667.1
77.5°	2819.6	3020.9	3925.3	6469.7	9592.3	10871.5	9606.2	7013.3	4961.6	3997.0	4015.5
80°	747.1	737.9	955.3	1778.8	4145.0	6296.2	4825.1	2375.5	1300.0	941.4	892.8
82.5°	268.3	300.7	386.3	492.7	1098.7	1956.9	1380.9	666.2	488.1	360.8	349.3
85°	118.0	115.7	166.5	196.6	275.3	365.5	323.8	282.2	247.5	164.2	152.7
87.5°	25.4	25.4	39.3	30.1	48.6	48.6	60.1	71.7	74.0	48.6	39.3
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)