

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: P454168

Luminaire Tested: **GALN-SA5B-730-U-RW**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)  
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-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26775 lumens  
Efficiency: N/A  
Efficacy: 131.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

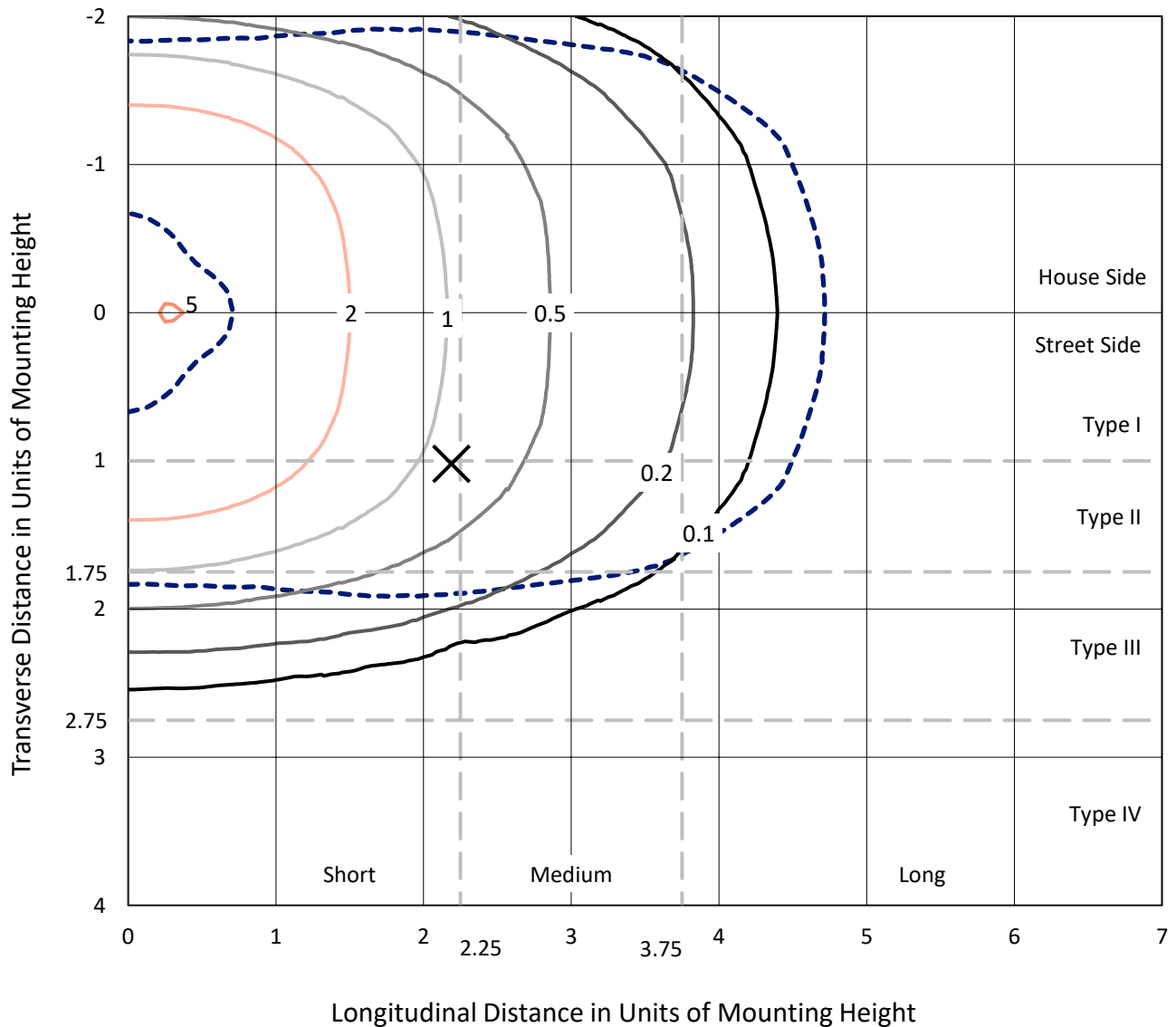
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

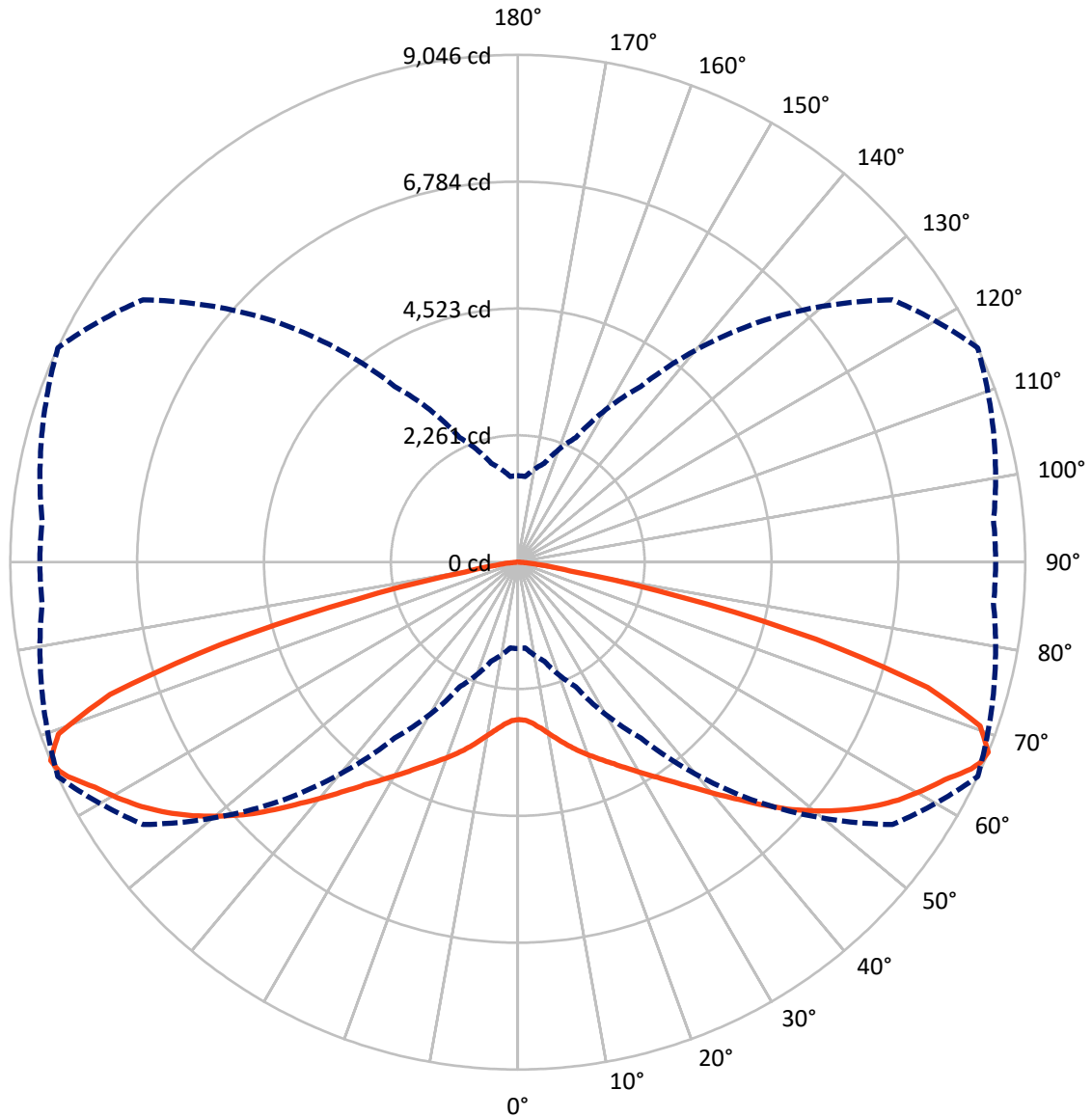
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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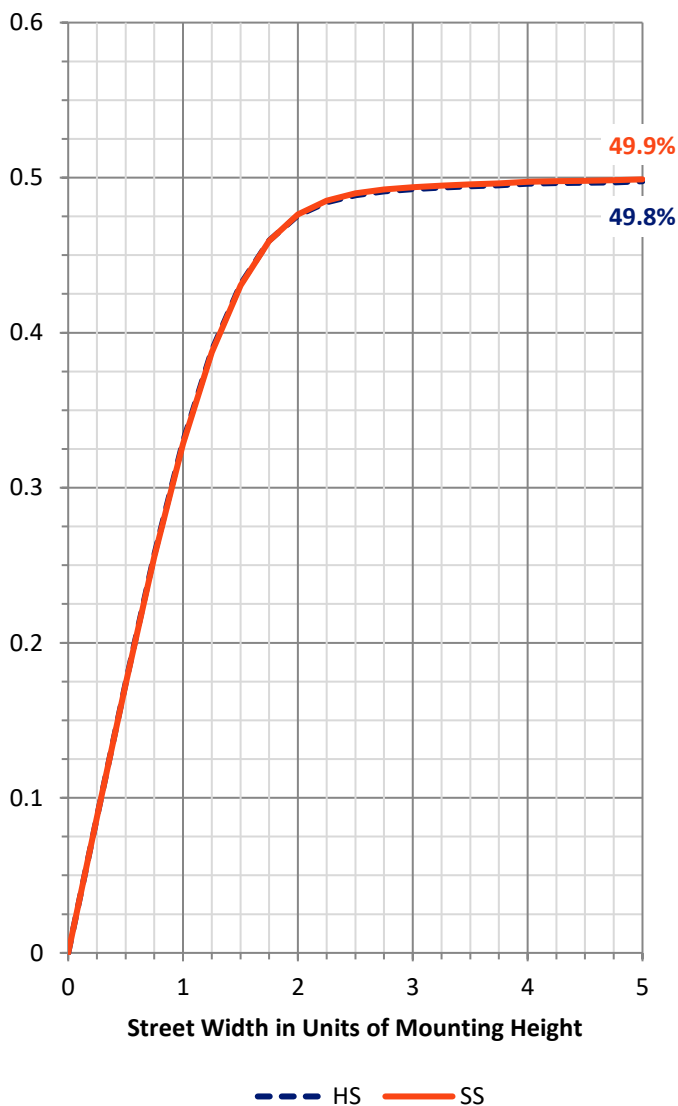
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	13387.5	0.0	13387.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	13387.5	0.0	13387.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	26775.0	0.0	26775.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.6	1.0
10°-20°	925.7	3.5
20°-30°	1810.8	6.8
30°-40°	3079.9	11.5
40°-50°	4874.6	18.2
50°-60°	6463.6	24.1
60°-70°	6097.2	22.8
70°-80°	3014.2	11.3
80°-90°	232.3	0.9
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°	26775.0	100.0
0°-180°	26775.0	100.0

**Coefficient of Utilization**



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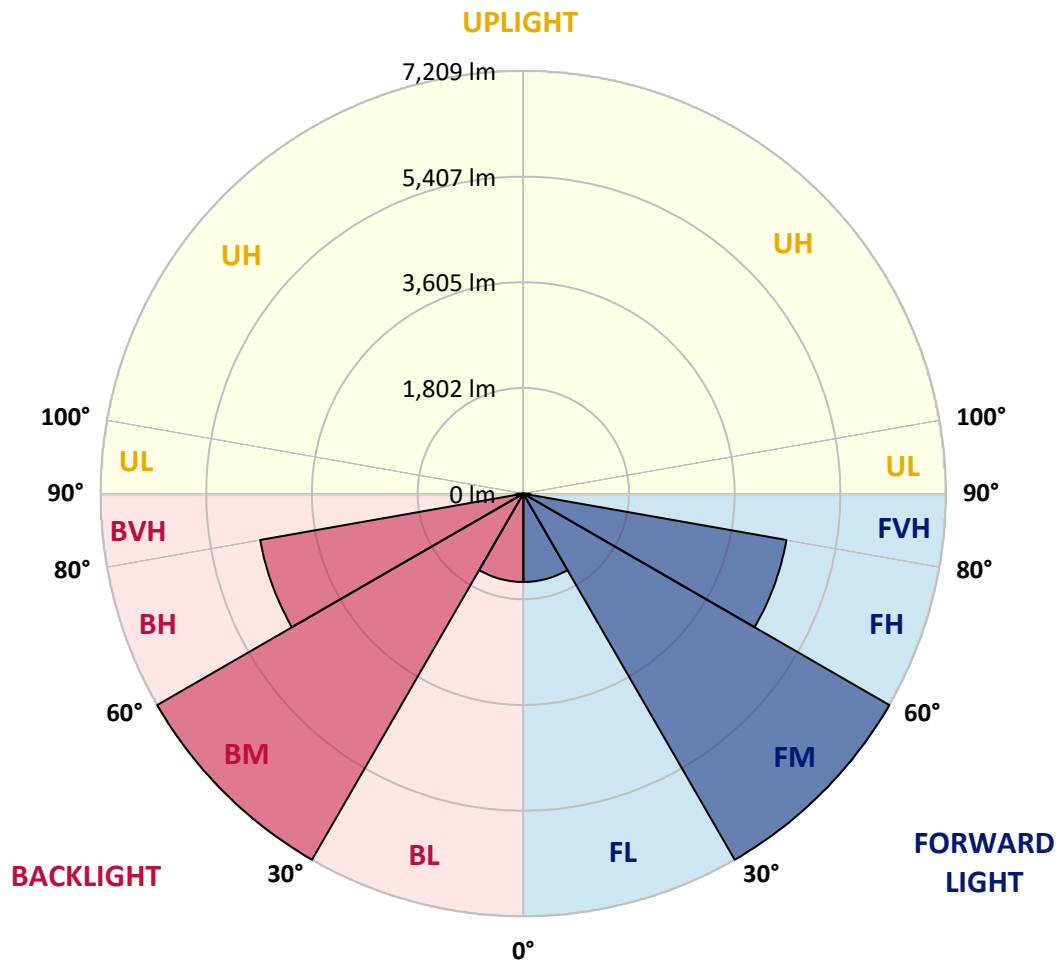
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1506.6	5.6			
FM	(30°-60°)	7209.1	26.9			
FH	(60°-80°)	4555.7	17.0			G2/5000
FVH	(80°-90°)	116.1	0.4			G2/225
BL	(0°-30°)	1506.6	5.6	B3/2500		
BM	(30°-60°)	7209.1	26.9	B4/8500		
BH	(60°-80°)	4555.7	17.0	B4/5000		G4/5000
BVH	(80°-90°)	116.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G4**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4	2804.4
2.5°	2790.1	2793.0	2795.8	2800.1	2805.9	2814.5	2820.2	2824.5	2836.0	2837.4	2836.0
5°	2780.1	2782.9	2790.1	2803.0	2821.7	2847.5	2867.6	2891.9	2910.6	2923.5	2920.6
7.5°	2778.6	2784.4	2795.8	2823.1	2859.0	2903.4	2949.3	2990.9	3026.8	3055.5	3051.2
10°	2801.6	2808.7	2827.4	2867.6	2923.5	2988.1	3052.6	3114.3	3165.9	3203.2	3216.1
12.5°	2840.3	2846.0	2880.5	2940.7	3021.1	3101.4	3174.5	3250.6	3322.3	3385.4	3385.4
15°	2907.7	2917.8	2960.8	3048.3	3147.3	3240.5	3315.1	3395.5	3472.9	3544.6	3566.2
17.5°	3001.0	3015.3	3079.9	3191.8	3318.0	3404.1	3474.4	3540.3	3607.8	3676.6	3686.7
20°	3128.6	3143.0	3229.1	3363.9	3513.1	3616.4	3663.7	3679.5	3712.5	3778.5	3787.1
22.5°	3302.2	3316.6	3412.7	3564.7	3731.1	3843.0	3863.1	3825.8	3817.2	3868.8	3874.6
25°	3498.7	3511.7	3622.1	3785.6	3957.8	4079.7	4074.0	3982.2	3930.5	3962.1	3970.7
27.5°	3719.7	3738.3	3850.2	4019.5	4206.0	4313.5	4296.3	4162.9	4052.5	4046.7	4049.6
30°	4002.3	4022.3	4128.5	4290.6	4474.2	4573.2	4537.3	4358.0	4187.3	4129.9	4129.9
32.5°	4300.6	4350.8	4458.4	4627.7	4771.1	4842.9	4788.4	4573.2	4346.5	4266.2	4261.9
35°	4689.4	4716.6	4822.8	4987.8	5095.3	5151.3	5046.6	4815.6	4554.5	4459.9	4446.9
37.5°	5069.5	5092.5	5215.8	5373.6	5504.2	5501.3	5359.3	5103.9	4812.7	4706.6	4698.0
40°	5458.3	5482.7	5623.2	5768.1	5898.7	5887.2	5715.0	5429.6	5119.7	5000.7	5023.6
42.5°	5795.4	5822.6	5981.9	6188.4	6306.1	6303.2	6103.8	5782.5	5459.7	5353.5	5373.6
45°	6102.4	6126.7	6311.8	6548.5	6720.6	6742.1	6524.1	6184.1	5852.8	5716.5	5722.2
47.5°	6319.0	6364.9	6558.5	6829.6	7063.5	7139.5	6925.8	6593.0	6211.4	6069.4	6078.0
50°	6483.9	6512.6	6723.5	7031.9	7327.4	7485.2	7313.1	6971.7	6570.0	6419.4	6439.5
52.5°	6504.0	6538.4	6768.0	7123.7	7502.4	7742.0	7657.4	7341.8	6935.8	6780.9	6823.9
55°	6340.5	6360.6	6634.6	7066.3	7571.3	7932.8	7954.3	7686.0	7284.4	7166.8	7195.4
57.5°	5874.3	5925.9	6273.1	6798.1	7476.6	8034.6	8176.6	7998.8	7637.3	7521.1	7567.0
60°	5109.7	5161.3	5509.9	6175.5	7119.4	7987.3	8360.3	8275.6	7957.2	7863.9	7888.3
62.5°	4003.7	3999.4	4431.2	5247.4	6409.3	7754.9	8496.5	8542.4	8272.8	8155.1	8192.4
65°	2595.0	2607.9	3025.4	3904.7	5337.8	7163.9	8526.7	8882.4	8582.6	8404.7	8432.0
66°	2087.2	2125.9	2480.2	3290.7	4791.2	6776.6	8436.3	8982.8	8677.3	8462.1	8475.0
67.5°	1540.7	1533.5	1824.7	2450.1	3825.8	6040.7	8153.7	9045.9	8784.9	8513.8	8519.5
70°	879.3	877.9	981.2	1345.6	2249.3	4253.3	6872.7	8743.3	9002.9	8700.2	8684.5
72.5°	642.7	638.4	652.7	743.1	1097.4	2147.4	4741.0	7641.6	8891.0	8670.1	8625.6
75°	539.4	536.5	533.6	545.1	615.4	972.6	2516.1	5497.0	7714.7	8137.9	8092.0
77.5°	440.4	440.4	441.8	439.0	441.8	512.1	1042.9	2946.5	4698.0	5244.5	5372.2
80°	344.3	342.8	367.2	357.2	334.2	328.5	461.9	948.2	1559.3	1550.7	1279.6
82.5°	253.9	236.7	279.7	272.6	246.7	209.4	269.7	404.5	520.7	338.5	251.0
85°	160.7	159.2	198.0	180.7	150.6	99.0	129.1	173.6	215.2	130.5	106.2
87.5°	28.7	27.3	63.1	45.9	45.9	28.7	35.9	47.3	70.3	48.8	35.9
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)