

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: P530043

Luminaire Tested: **GALN-SA5B-730-U-5NQ-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5B-730-U-5NQ-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17828 lumens  
Efficiency: N/A  
Efficacy: 87.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G0

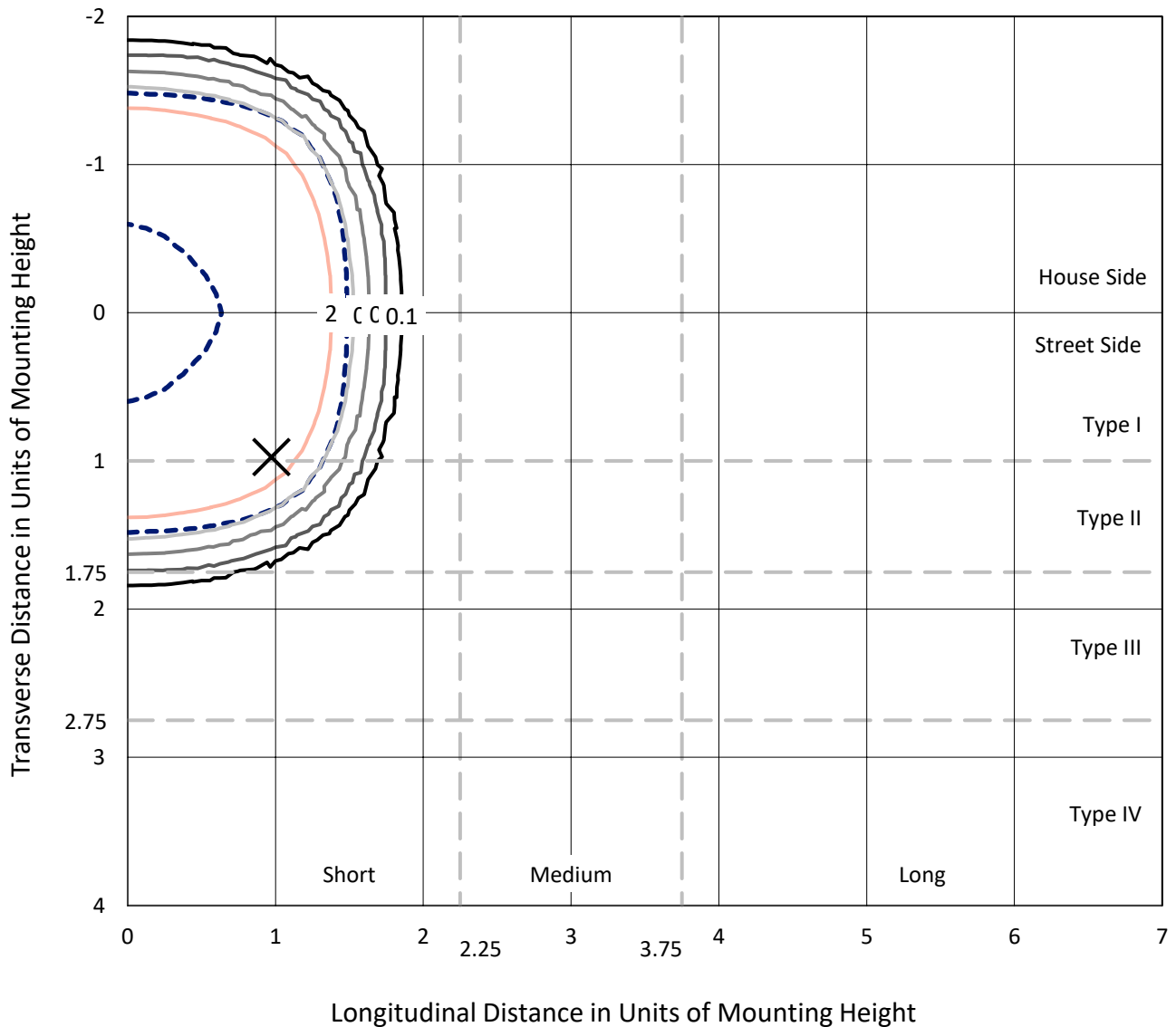
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

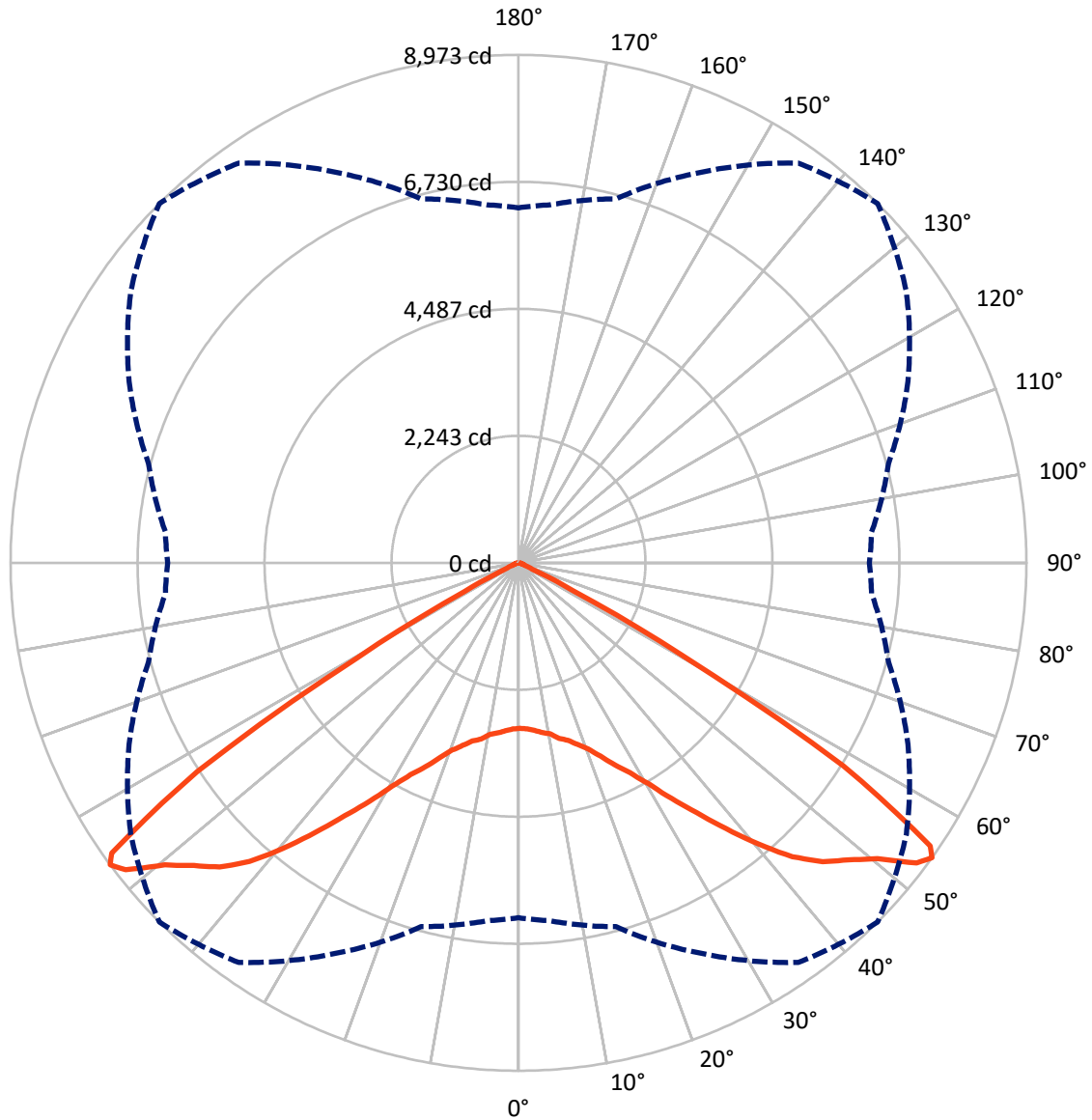
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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 54-Deg Vertical

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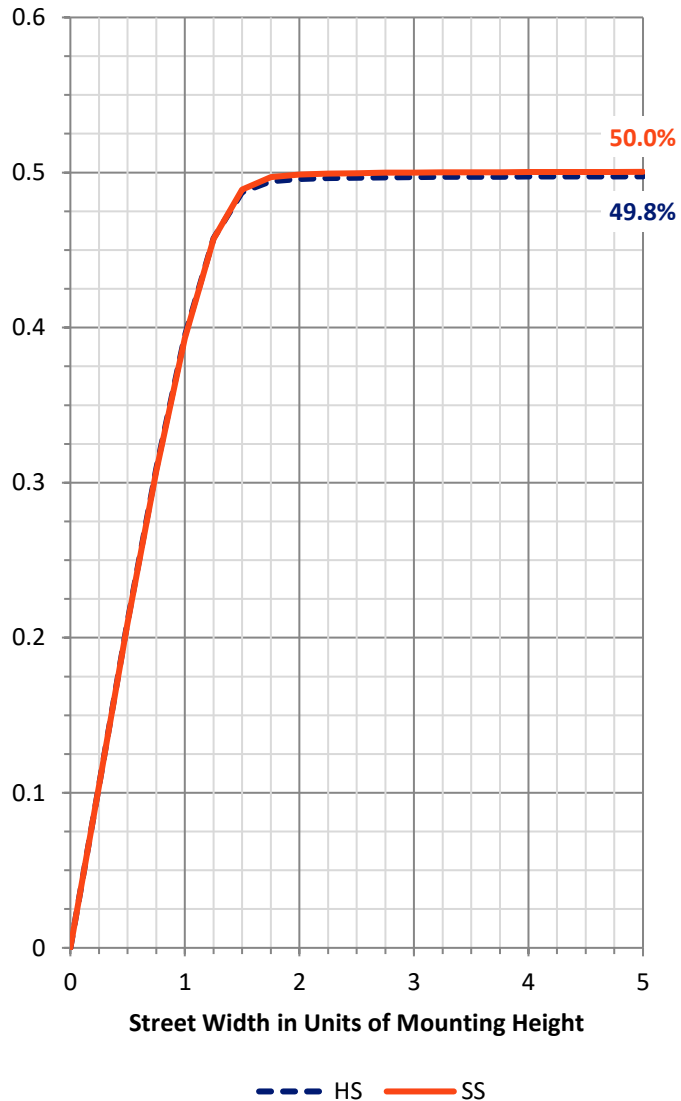
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8914.0	0.0	8914.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8914.0	0.0	8914.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	17828.0	0.0	17828.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	286.1	1.6
10°-20°	926.5	5.2
20°-30°	1816.0	10.2
30°-40°	3265.5	18.3
40°-50°	5589.9	31.4
50°-60°	5408.8	30.3
60°-70°	463.0	2.6
70°-80°	54.9	0.3
80°-90°	17.2	0.1
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°	17828.0	100.0
0°-180°	17828.0	100.0

**Coefficient of Utilization**

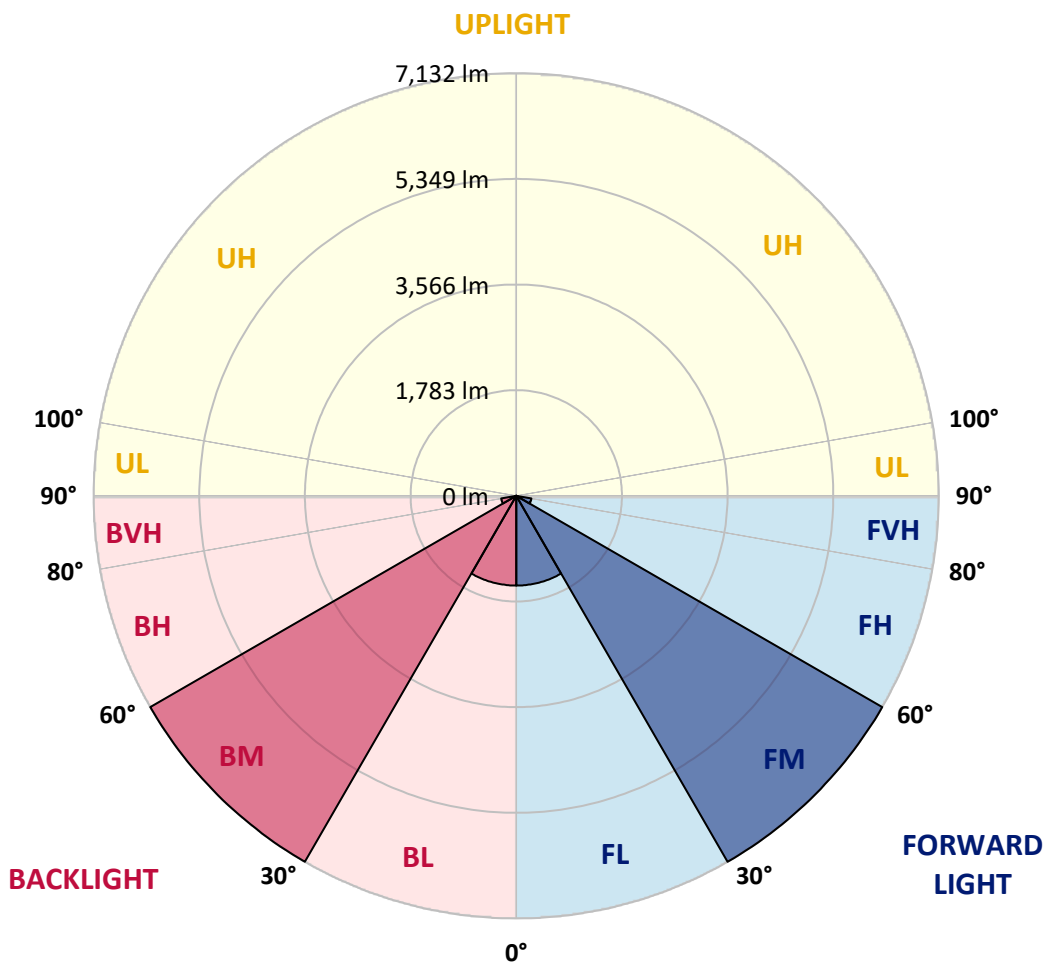


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1514.3	8.5			
FM (30°-60°)	7132.1	40.0			
FH (60°-80°)	258.9	1.5			G0/660
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1514.3	8.5	B3/2500		
BM (30°-60°)	7132.1	40.0	B4/8500		
BH (60°-80°)	258.9	1.5	B1/500		G0/660
BVH (80°-90°)	8.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G0**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2923.2	2923.2	2923.2	2923.2	2923.2	2923.2	2923.2	2923.2	2923.2	2923.2	2923.2
2.5°	2937.4	2954.3	2943.0	2951.5	2951.5	2937.4	2945.8	2911.9	2934.5	2917.6	2920.4
5°	2982.5	2979.7	2979.7	2982.5	2971.3	2976.9	2965.6	2954.3	2945.8	2934.5	2968.4
7.5°	3039.0	3039.0	3019.3	3024.9	3019.3	3027.7	3005.1	2982.5	2974.1	2965.6	2960.0
10°	3092.7	3087.1	3078.6	3104.0	3084.2	3072.9	3061.6	3047.5	3016.4	3005.1	2993.8
12.5°	3171.8	3169.0	3157.7	3183.1	3171.8	3183.1	3140.7	3104.0	3098.3	3061.6	3081.4
15°	3265.0	3290.4	3270.6	3270.6	3265.0	3250.9	3233.9	3217.0	3166.1	3152.0	3154.8
17.5°	3386.4	3378.0	3380.8	3380.8	3409.0	3372.3	3338.4	3296.1	3270.6	3262.2	3233.9
20°	3502.2	3513.5	3510.7	3530.5	3547.4	3507.9	3471.2	3465.5	3394.9	3406.2	3366.7
22.5°	3705.6	3697.1	3711.2	3725.4	3714.1	3708.4	3674.5	3632.2	3570.0	3541.8	3536.1
25°	3920.2	3906.1	3880.7	3914.6	3931.5	3957.0	3892.0	3869.4	3773.4	3731.0	3733.8
27.5°	4103.8	4123.6	4151.8	4166.0	4208.3	4199.9	4154.7	4081.2	4007.8	3959.8	3928.7
30°	4355.2	4366.5	4414.5	4434.3	4507.7	4527.5	4456.9	4372.1	4242.2	4180.1	4143.4
32.5°	4586.8	4665.9	4663.1	4761.9	4880.5	4962.4	4835.3	4705.4	4575.5	4502.1	4437.1
35°	4962.4	4948.3	5030.2	5134.7	5326.8	5420.0	5281.6	5131.9	4934.2	4815.6	4764.7
37.5°	5312.7	5318.3	5428.5	5595.1	5815.4	5959.4	5838.0	5592.3	5388.9	5236.4	5165.8
40°	5821.1	5832.4	5945.3	6134.6	6383.1	6538.4	6397.2	6148.7	5877.5	5758.9	5758.9
42.5°	6417.0	6465.0	6538.4	6702.3	6925.4	7097.7	6970.6	6775.7	6501.7	6349.2	6371.8
45°	7029.9	7052.5	7100.5	7343.4	7447.9	7532.6	7414.0	7323.6	7140.0	6953.6	6922.6
47.5°	7603.2	7611.7	7752.9	7829.2	7911.1	7840.5	7916.7	7798.1	7591.9	7411.2	7374.5
50°	7857.4	7843.3	8043.8	8275.4	8337.6	8213.3	8148.3	8069.3	7755.8	7538.3	7442.2
52.5°	7117.4	7199.4	7572.2	8216.1	8701.9	8806.4	8428.0	8063.6	7479.0	7055.3	6990.3
54°	6270.1	6346.4	6654.2	7608.9	8620.0	8973.1	8363.0	7589.1	6764.4	6261.7	6196.7
55°	5431.3	5346.6	5905.8	6880.2	8235.9	8826.2	8106.0	6976.2	6032.9	5572.5	5482.1
57.5°	2940.2	2954.3	3426.0	4346.7	5787.2	6767.2	5976.4	4719.5	3564.4	3047.5	3002.3
60°	932.0	954.6	1160.8	1756.8	2765.1	3301.7	2830.0	1895.2	1310.5	1050.7	1008.3
62.5°	290.9	302.2	330.5	491.4	756.9	1081.7	847.3	508.4	378.5	347.4	353.0
65°	177.9	177.9	180.8	192.1	226.0	262.7	254.2	223.1	214.7	209.0	206.2
67.5°	115.8	113.0	118.6	127.1	132.7	135.6	144.0	152.5	149.7	144.0	144.0
70°	70.6	67.8	73.4	84.7	87.6	93.2	101.7	113.0	110.2	104.5	107.3
72.5°	39.5	39.5	42.4	50.8	59.3	65.0	73.4	81.9	84.7	81.9	81.9
75°	14.1	16.9	22.6	31.1	36.7	45.2	53.7	62.1	70.6	65.0	62.1
77.5°	5.6	5.6	11.3	19.8	28.2	36.7	50.8	59.3	65.0	59.3	53.7
80°	2.8	2.8	8.5	16.9	25.4	33.9	42.4	50.8	53.7	48.0	42.4
82.5°	2.8	2.8	8.5	16.9	25.4	31.1	45.2	50.8	56.5	50.8	42.4
85°	0.0	2.8	8.5	16.9	22.6	25.4	25.4	16.9	14.1	8.5	8.5
87.5°	0.0	0.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)