

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: P530042

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-4)
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-5MQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22906 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

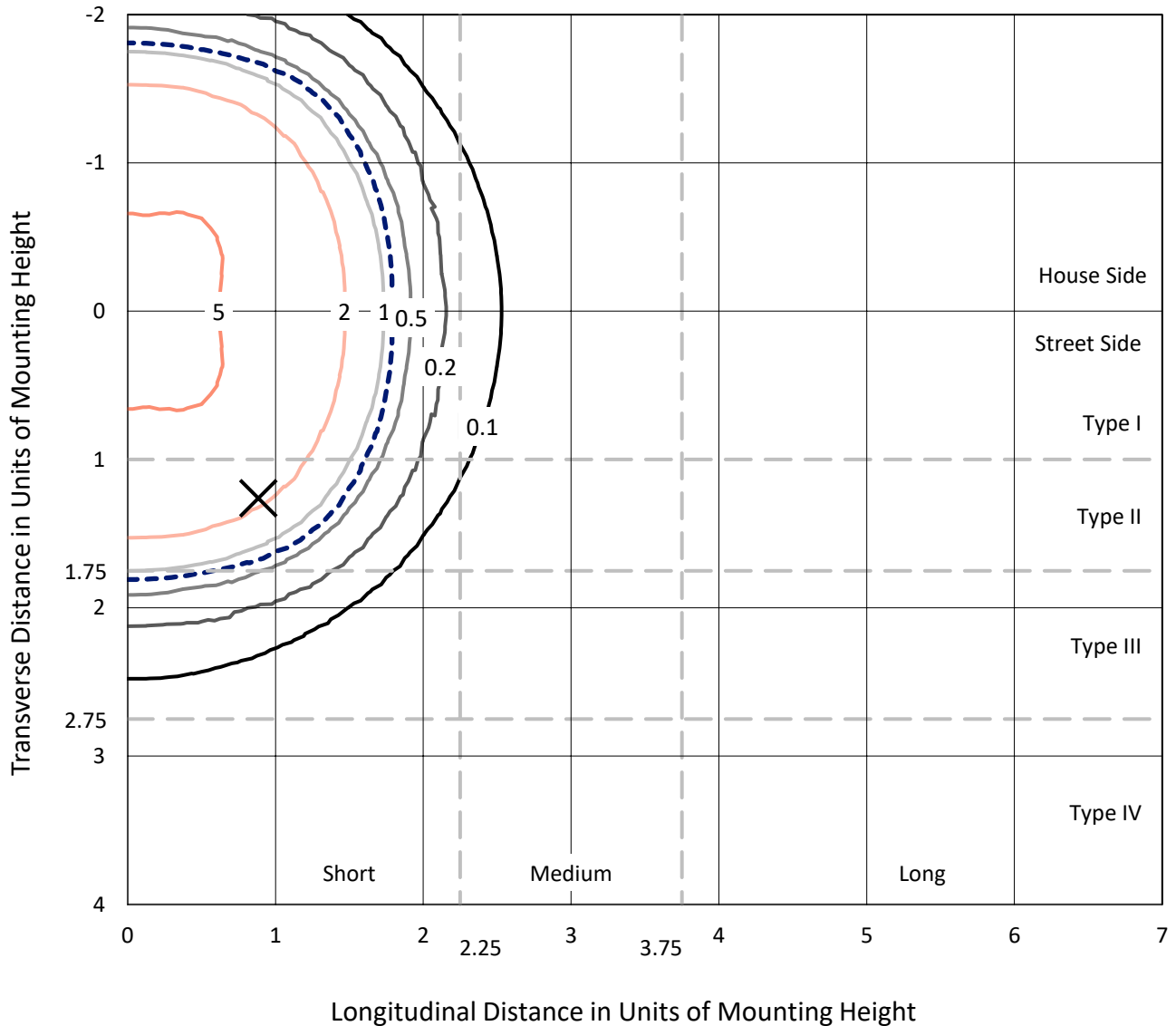
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

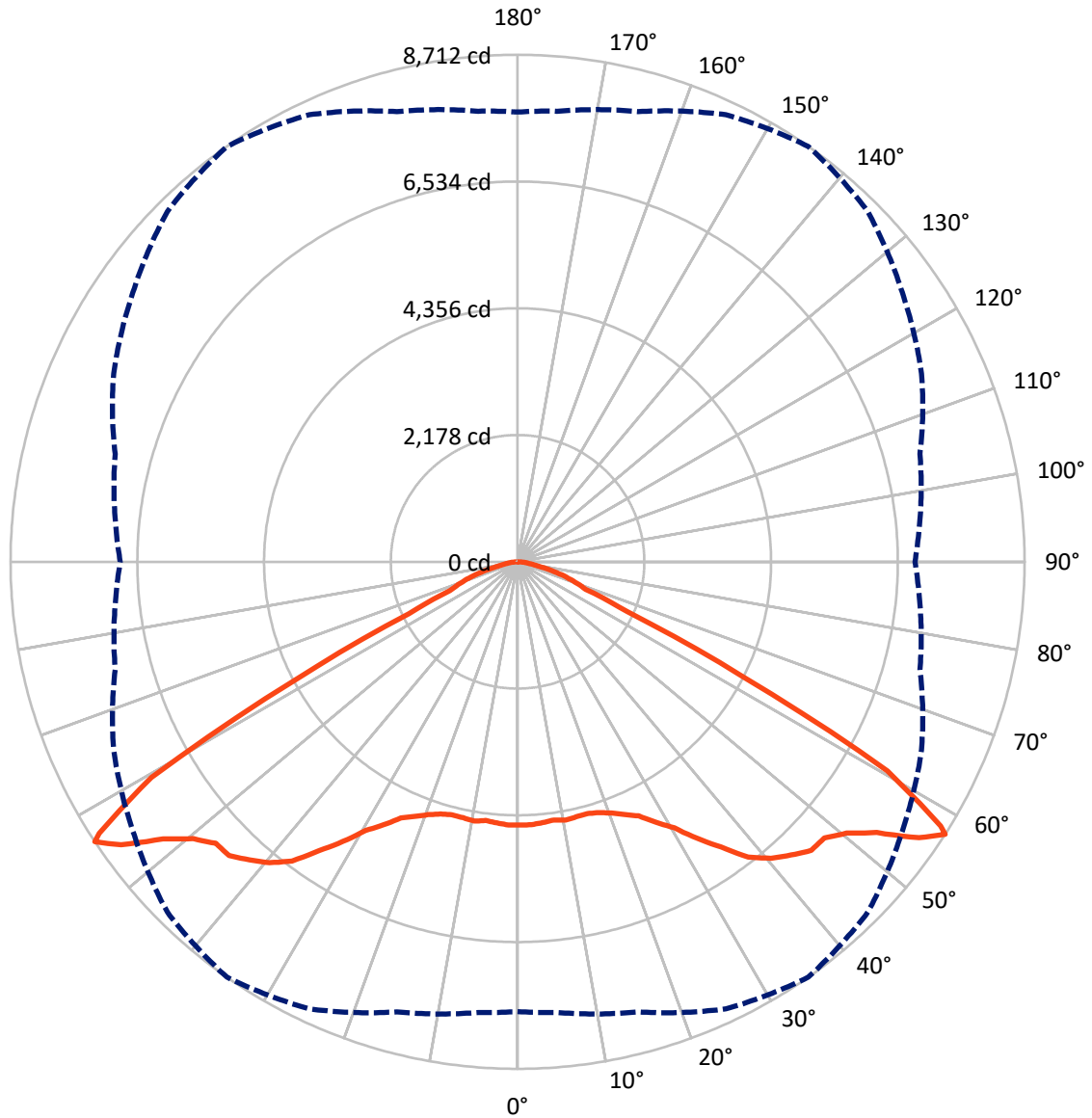
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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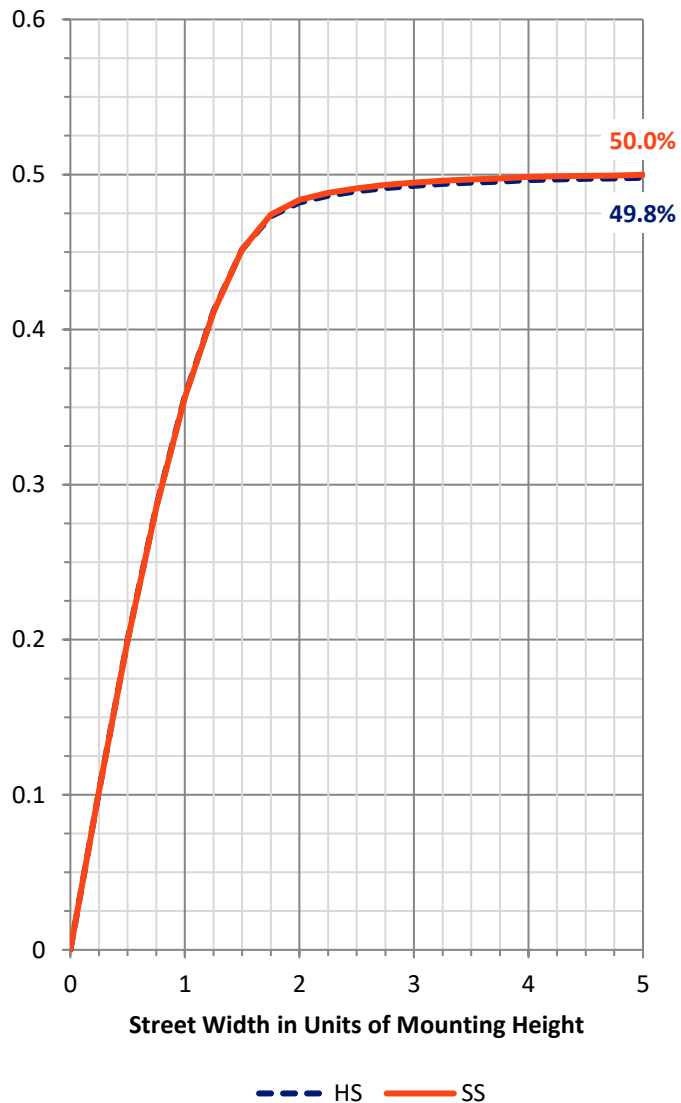
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11453.0	0.0	11453.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	11453.0	0.0	11453.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	22906.0	0.0	22906.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.9	1.9
10°-20°	1270.2	5.5
20°-30°	2218.4	9.7
30°-40°	3634.9	15.9
40°-50°	5329.6	23.3
50°-60°	6713.0	29.3
60°-70°	2524.7	11.0
70°-80°	671.3	2.9
80°-90°	115.1	0.5
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°	22906.0	100.0
0°-180°	22906.0	100.0

Coefficient of Utilization



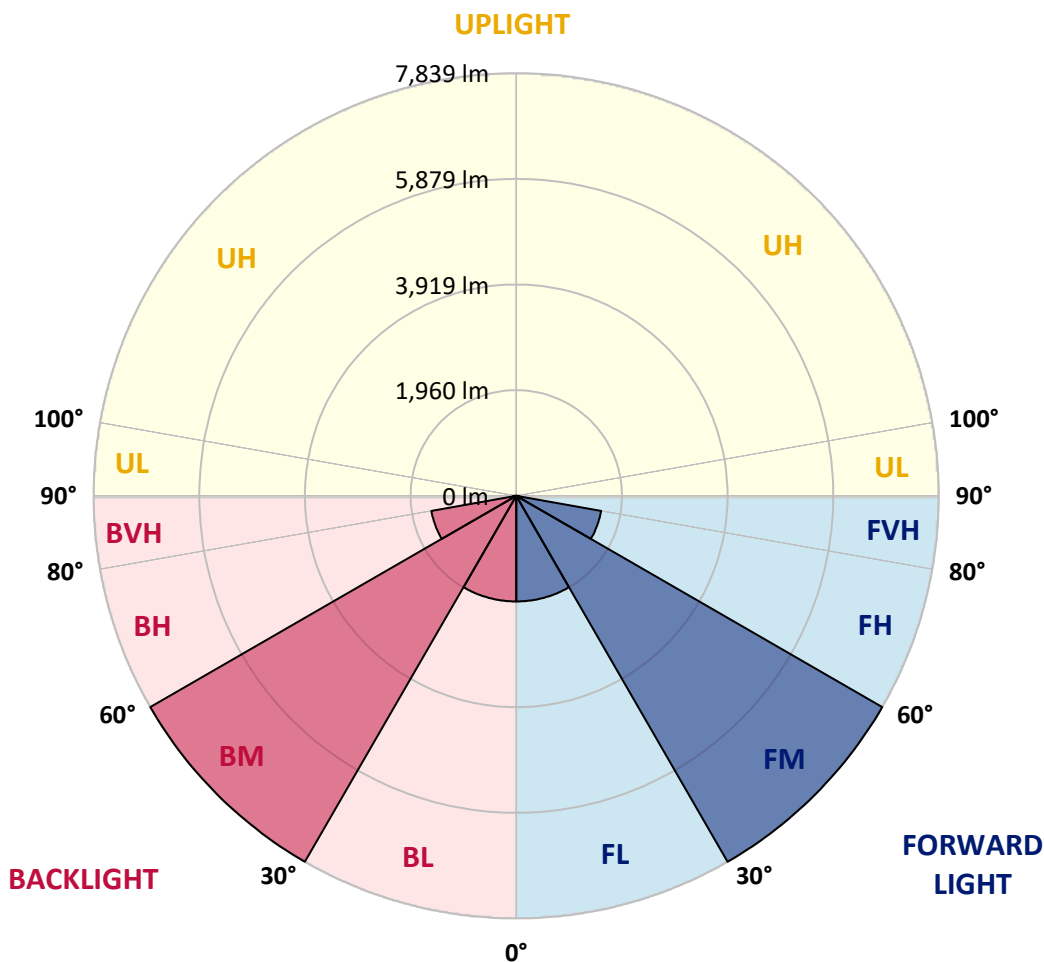
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1958.7	8.6			
FM (30°-60°)	7838.7	34.2			
FH (60°-80°)	1598.0	7.0			G1/1800
FVH (80°-90°)	57.6	0.3			G1/100
BL (0°-30°)	1958.7	8.6	B3/2500		
BM (30°-60°)	7838.7	34.2	B4/8500		
BH (60°-80°)	1598.0	7.0	B3/2500		G1/1800
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4523.8	4523.8	4523.8	4523.8	4523.8	4523.8	4523.8	4523.8	4523.8	4523.8	4523.8
2.5°	4501.2	4546.3	4526.6	4515.3	4523.8	4509.7	4487.1	4512.5	4506.8	4484.3	4475.8
5°	4489.9	4523.8	4501.2	4523.8	4501.2	4540.7	4529.4	4487.1	4537.9	4489.9	4506.8
7.5°	4481.4	4492.7	4498.4	4487.1	4478.6	4526.6	4501.2	4481.4	4453.2	4444.7	4458.9
10°	4461.7	4489.9	4447.6	4504.0	4515.3	4481.4	4481.4	4444.7	4422.2	4408.1	4456.0
12.5°	4512.5	4464.5	4458.9	4487.1	4495.5	4509.7	4470.1	4450.4	4408.1	4413.7	4405.2
15°	4453.2	4473.0	4475.8	4481.4	4489.9	4523.8	4487.1	4444.7	4427.8	4368.6	4374.2
17.5°	4475.8	4456.0	4475.8	4540.7	4529.4	4554.8	4515.3	4450.4	4410.9	4377.0	4422.2
20°	4515.3	4506.8	4515.3	4594.3	4608.4	4631.0	4597.1	4537.9	4461.7	4422.2	4444.7
22.5°	4557.6	4552.0	4557.6	4633.8	4715.7	4743.9	4710.0	4571.7	4532.2	4458.9	4433.5
25°	4633.8	4639.5	4698.7	4783.4	4837.0	4890.6	4828.5	4729.8	4602.8	4557.6	4504.0
27.5°	4803.2	4817.3	4851.1	4975.3	5068.4	5116.4	5028.9	4893.5	4814.4	4721.3	4707.2
30°	5012.0	5012.0	5071.2	5178.5	5305.5	5378.9	5271.6	5110.8	5014.8	4964.0	4933.0
32.5°	5288.5	5257.5	5280.1	5469.2	5666.7	5728.8	5584.9	5387.3	5234.9	5167.2	5144.6
35°	5525.6	5545.4	5596.1	5799.3	6019.5	6163.4	5937.6	5680.8	5525.6	5463.5	5452.2
37.5°	5833.2	5867.1	5892.5	6171.9	6437.1	6490.7	6273.4	6067.4	5878.4	5827.6	5799.3
40°	6267.8	6245.2	6253.7	6459.7	6699.6	6733.4	6519.0	6372.2	6217.0	6186.0	6186.0
42.5°	6626.2	6600.8	6629.0	6705.2	6888.7	6863.3	6744.7	6637.5	6572.6	6538.7	6572.6
45°	6843.5	6837.9	6888.7	6945.1	7074.9	6990.2	6897.1	6914.1	6852.0	6795.5	6792.7
47.5°	7080.6	7043.9	7106.0	7190.6	7091.8	7052.3	7046.7	7083.4	7063.6	6964.9	6933.8
50°	7196.3	7182.1	7280.9	7379.7	7326.1	7235.8	7255.5	7314.8	7060.8	6928.2	6852.0
52.5°	7506.7	7509.5	7698.6	7752.2	7729.6	7597.0	7639.3	7478.5	7179.3	6993.1	7001.5
55°	7994.9	7975.1	8186.8	8344.8	8370.2	8200.9	7997.7	7772.0	7396.6	7207.5	7151.1
57°	7726.8	7772.0	8006.2	8474.7	8711.7	8511.3	8068.3	7656.3	7156.8	6928.2	6826.6
57.5°	7368.4	7441.8	7848.2	8319.4	8567.8	8550.8	7980.8	7441.8	6995.9	6640.3	6648.8
60°	5398.6	5412.7	5779.6	6527.4	7303.5	7320.4	6626.2	5912.2	5415.5	5028.9	5082.5
62.5°	2847.5	2912.4	3059.1	3660.2	4331.9	4495.5	4075.1	3708.2	3279.2	2985.7	3014.0
65°	1507.0	1498.5	1569.1	1738.4	2068.6	2153.2	2096.8	1806.1	1656.6	1608.6	1611.4
67.5°	1224.8	1238.9	1230.4	1238.9	1261.5	1298.1	1289.7	1301.0	1309.4	1323.5	1320.7
70°	1038.5	1038.5	1044.2	1047.0	1047.0	1063.9	1083.7	1120.4	1123.2	1137.3	1142.9
72.5°	818.4	812.8	821.2	841.0	843.8	857.9	886.1	908.7	917.2	917.2	900.2
75°	555.9	561.6	572.9	589.8	606.7	632.1	654.7	668.8	674.5	666.0	657.5
77.5°	313.2	318.9	327.4	352.8	372.5	395.1	420.5	434.6	448.7	451.5	434.6
80°	186.3	186.3	200.4	220.1	242.7	265.3	287.9	304.8	310.4	310.4	302.0
82.5°	112.9	115.7	127.0	146.7	166.5	180.6	200.4	214.5	225.8	222.9	217.3
85°	59.3	59.3	70.6	87.5	101.6	115.7	115.7	107.2	101.6	87.5	81.8
87.5°	19.8	16.9	22.6	22.6	19.8	22.6	22.6	25.4	25.4	25.4	25.4
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)