

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: P533088

Luminaire Tested: **GALN-SA8C-730-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533088
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43863 lumens
Efficiency: N/A
Efficacy: 102.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

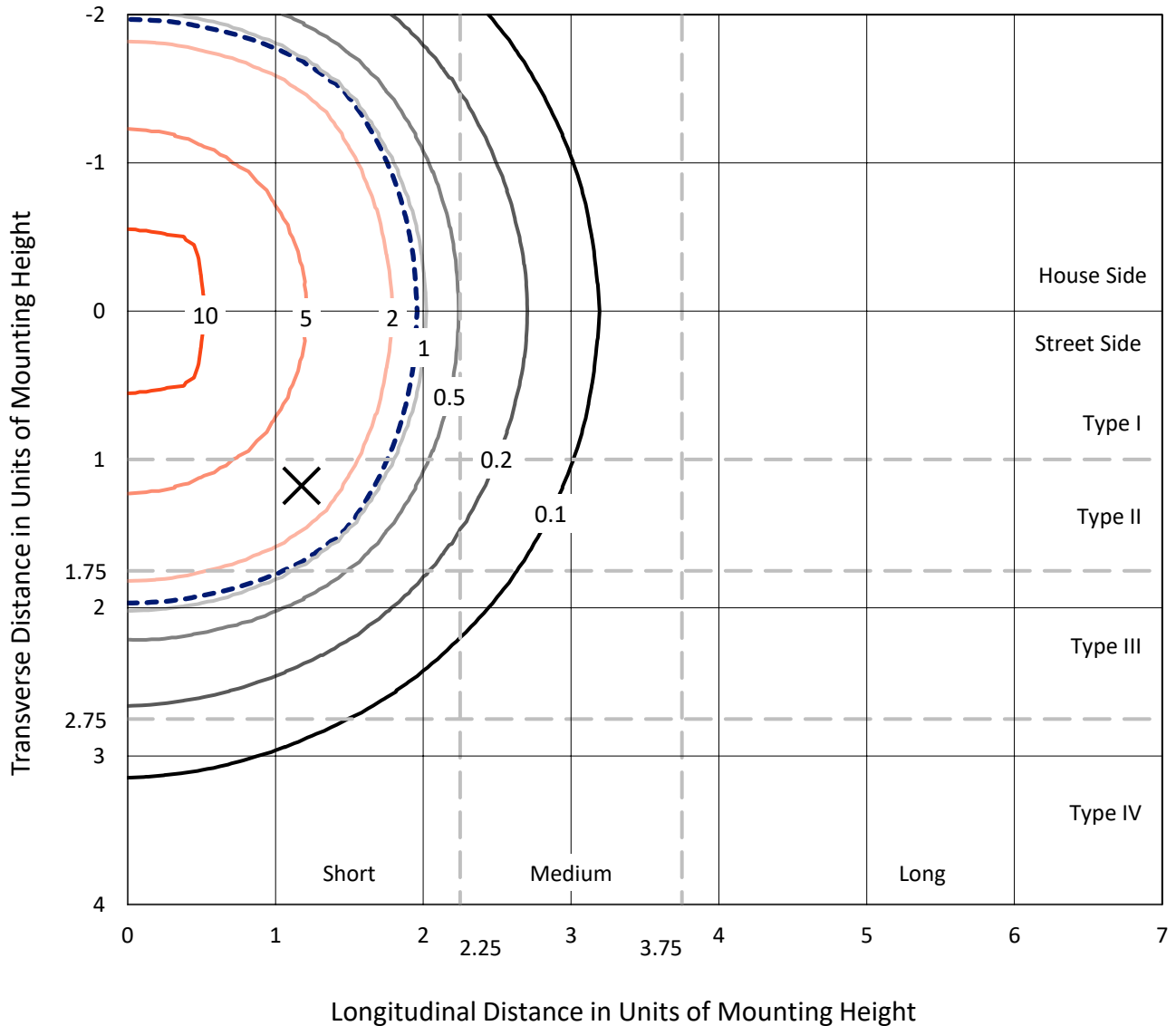
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

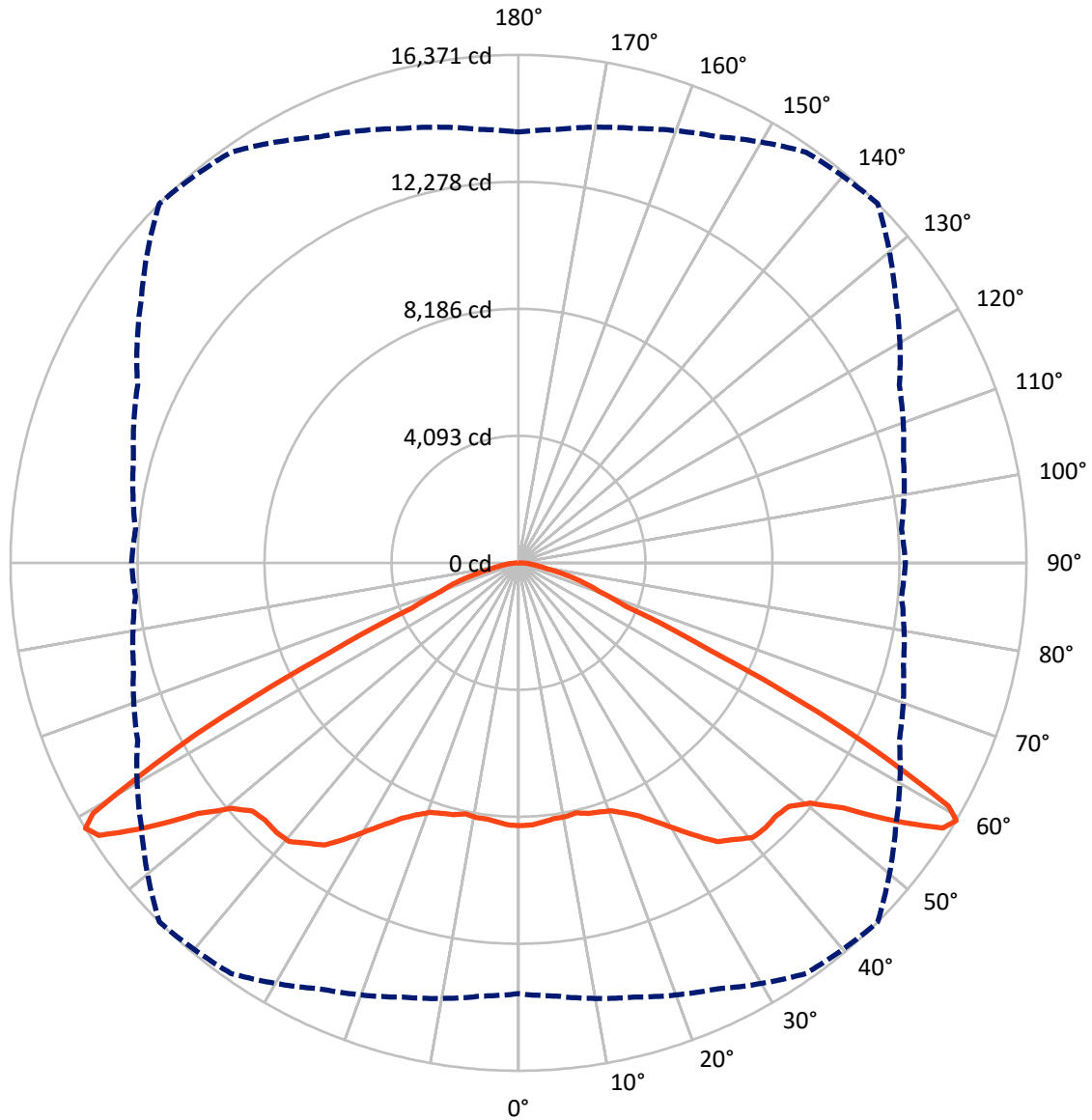
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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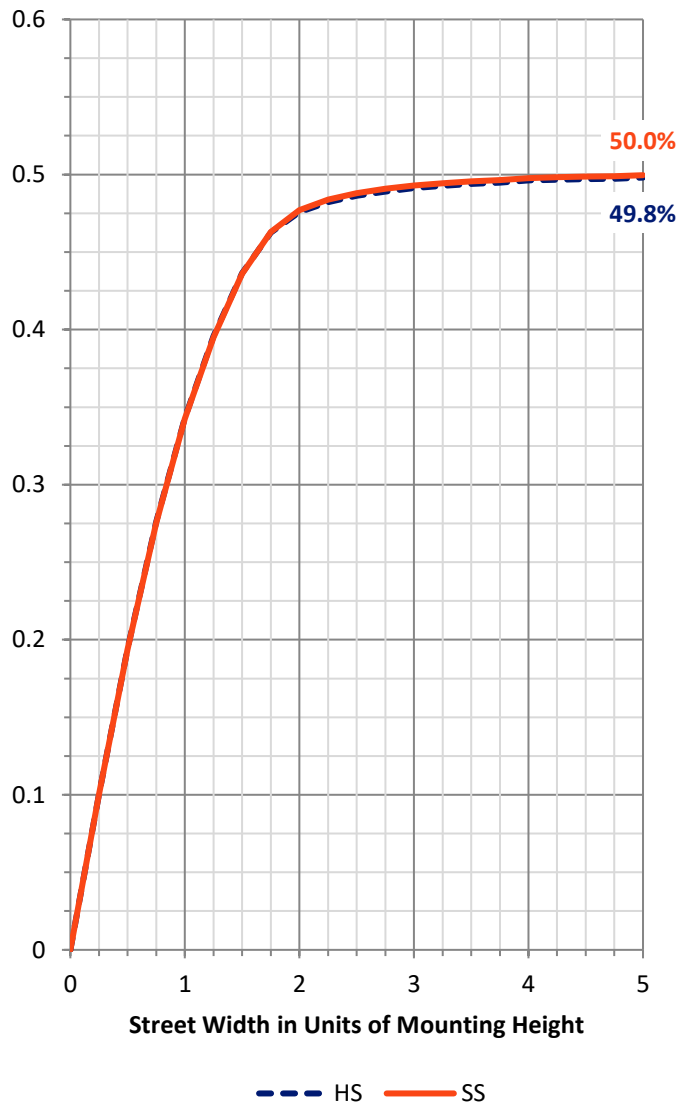
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21931.5	0.0	21931.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21931.5	0.0	21931.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	43863.0	0.0	43863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.7	1.8
10°-20°	2375.1	5.4
20°-30°	4147.2	9.5
30°-40°	6623.6	15.1
40°-50°	9022.7	20.6
50°-60°	12201.0	27.8
60°-70°	6691.1	15.3
70°-80°	1711.8	3.9
80°-90°	292.0	0.7
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°	43863.0	100.0
0°-180°	43863.0	100.0

Coefficient of Utilization



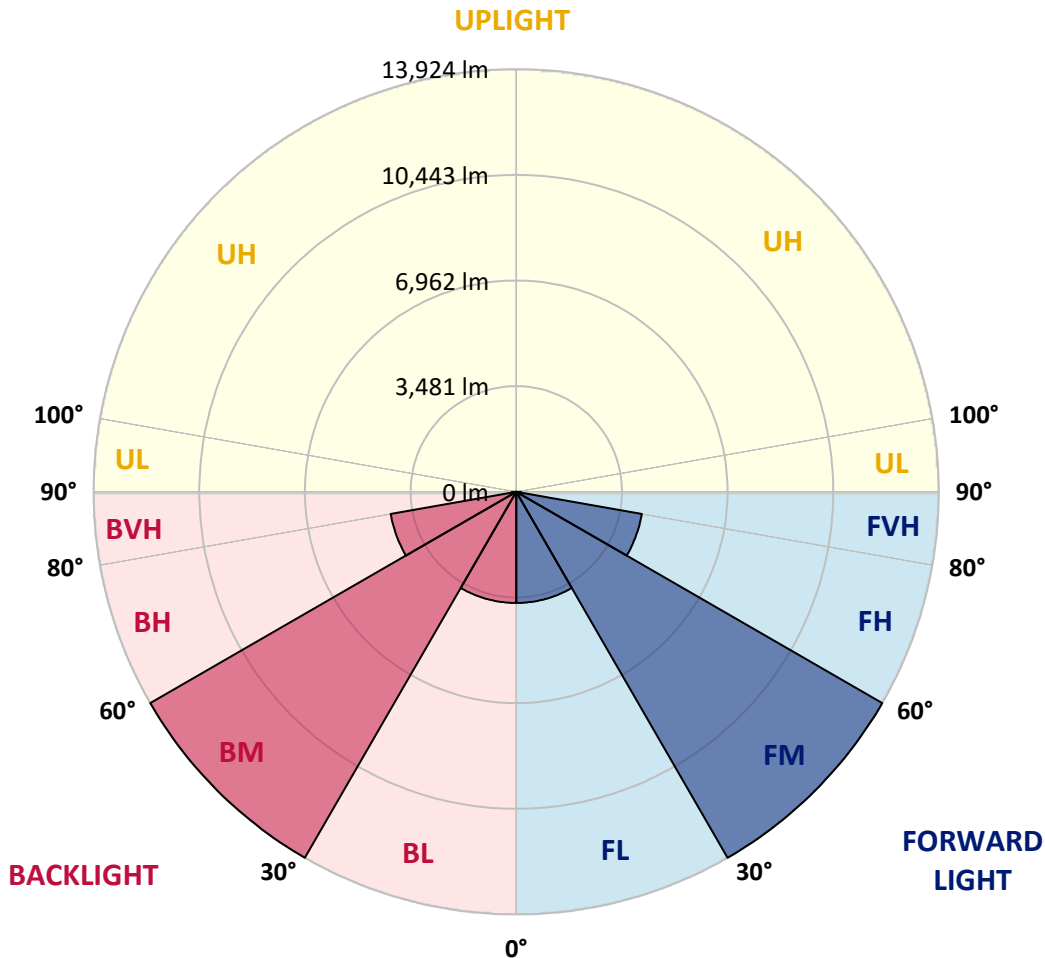
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3660.4	8.3			
FM (30°-60°)	13923.7	31.7			
FH (60°-80°)	4201.4	9.6			G2/5000
FVH (80°-90°)	146.0	0.3			G2/225
BL (0°-30°)	3660.4	8.3	B4/5000		
BM (30°-60°)	13923.7	31.7	B5		
BH (60°-80°)	4201.4	9.6	B4/5000		G2/5000
BVH (80°-90°)	146.0	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8472.2	8472.2	8472.2	8472.2	8472.2	8472.2	8472.2	8472.2	8472.2	8472.2	8472.2
2.5°	8421.6	8483.5	8438.5	8477.9	8472.2	8455.4	8427.3	8410.4	8387.9	8421.6	8365.4
5°	8387.9	8438.5	8489.1	8421.6	8421.6	8387.9	8371.0	8337.3	8337.3	8331.7	8326.1
7.5°	8444.1	8393.5	8371.0	8382.3	8393.5	8320.4	8371.0	8303.6	8247.4	8286.7	8331.7
10°	8393.5	8416.0	8331.7	8371.0	8309.2	8320.4	8286.7	8331.7	8269.8	8269.8	8269.8
12.5°	8444.1	8382.3	8410.4	8382.3	8365.4	8269.8	8314.8	8264.2	8258.6	8314.8	8264.2
15°	8545.3	8444.1	8421.6	8365.4	8382.3	8382.3	8337.3	8342.9	8281.1	8314.8	8326.1
17.5°	8511.6	8455.4	8438.5	8371.0	8427.3	8444.1	8359.8	8303.6	8342.9	8337.3	8331.7
20°	8539.7	8562.2	8545.3	8556.6	8579.1	8534.1	8455.4	8376.7	8326.1	8399.1	8393.5
22.5°	8719.6	8697.1	8685.9	8674.6	8714.0	8759.0	8652.1	8528.5	8528.5	8579.1	8601.5
25°	8865.8	8860.1	8854.5	8905.1	9040.0	9040.0	8905.1	8747.7	8708.4	8742.1	8714.0
27.5°	9079.4	9141.2	9118.8	9208.7	9405.5	9450.4	9270.5	9085.0	8978.2	8938.9	8989.5
30°	9568.5	9495.4	9512.3	9607.9	9782.1	9928.3	9652.8	9456.1	9309.9	9304.3	9326.8
32.5°	9894.6	9950.8	10001.4	10091.3	10366.8	10479.3	10147.6	9827.1	9737.2	9686.6	9703.4
35°	10546.7	10496.1	10484.9	10574.8	10850.3	11035.8	10619.8	10338.7	10220.7	10333.1	10333.1
37.5°	11165.1	11024.6	10917.8	11035.8	11288.8	11311.3	10957.1	10805.3	10743.5	10872.8	10867.2
40°	11457.5	11446.2	11198.9	11266.3	11603.6	11637.4	11305.7	11125.8	11114.5	11283.2	11451.9
42.5°	11761.1	11654.2	11406.9	11451.9	11659.9	11671.1	11356.3	11305.7	11429.4	11592.4	11603.6
45°	11811.7	11721.7	11564.3	11451.9	11603.6	11637.4	11451.9	11485.6	11496.8	11693.6	11693.6
47.5°	11912.8	11901.6	11811.7	11727.3	11755.4	11727.3	11609.3	11659.9	11828.5	11924.1	11879.1
50°	12193.9	12075.9	12165.8	12092.8	12098.4	12177.1	12070.3	12120.9	12087.1	12002.8	11946.6
52.5°	12812.4	12756.1	12834.8	12885.4	12941.7	13121.6	12997.9	12728.0	12475.0	12250.2	12244.5
55°	13717.5	13756.8	13908.6	14167.2	14386.5	14673.2	14077.3	13430.8	13026.0	12671.8	12694.3
57.5°	14572.0	14543.9	14751.9	15342.2	15983.1	16129.3	14959.9	14037.9	13380.2	13155.3	13059.7
59°	13886.1	14021.1	14493.3	15151.1	16157.4	16371.0	14841.9	13543.2	12846.1	12390.7	12469.4
60°	12806.7	12857.3	13279.0	14195.3	15555.9	15921.3	14049.2	12778.6	11851.0	11586.8	11704.8
62.5°	9051.3	9011.9	9315.5	10063.2	11283.2	11777.9	10445.5	9551.6	8967.0	8674.6	8742.1
65°	4812.4	4992.3	5115.9	5582.6	6229.1	6751.9	6201.0	5813.1	5487.0	5245.3	5239.6
67.5°	3249.5	3227.0	3255.1	3361.9	3581.2	3727.3	3716.1	3519.3	3491.2	3446.2	3496.8
70°	2737.9	2726.6	2676.0	2676.0	2721.0	2754.7	2794.1	2816.6	2861.6	2917.8	2912.2
72.5°	2220.7	2192.5	2158.8	2142.0	2198.2	2215.0	2265.6	2288.1	2327.5	2321.9	2372.5
75°	1467.3	1467.3	1506.7	1551.7	1568.5	1602.2	1607.9	1675.3	1675.3	1686.6	1641.6
77.5°	820.8	798.3	826.4	871.4	910.8	972.6	1034.4	1085.0	1113.1	1101.9	1101.9
80°	477.9	477.9	506.0	556.6	607.2	663.4	708.4	747.7	775.8	764.6	742.1
82.5°	298.0	298.0	326.1	376.7	416.0	449.8	511.6	562.2	595.9	584.7	556.6
85°	151.8	151.8	185.5	219.3	269.9	292.3	286.7	264.2	258.6	230.5	230.5
87.5°	39.4	39.4	56.2	61.8	50.6	56.2	56.2	56.2	56.2	56.2	61.8
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)