

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: P457181

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457181
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-SA8C-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54112 lumens
Efficiency: N/A
Efficacy: 126.1 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

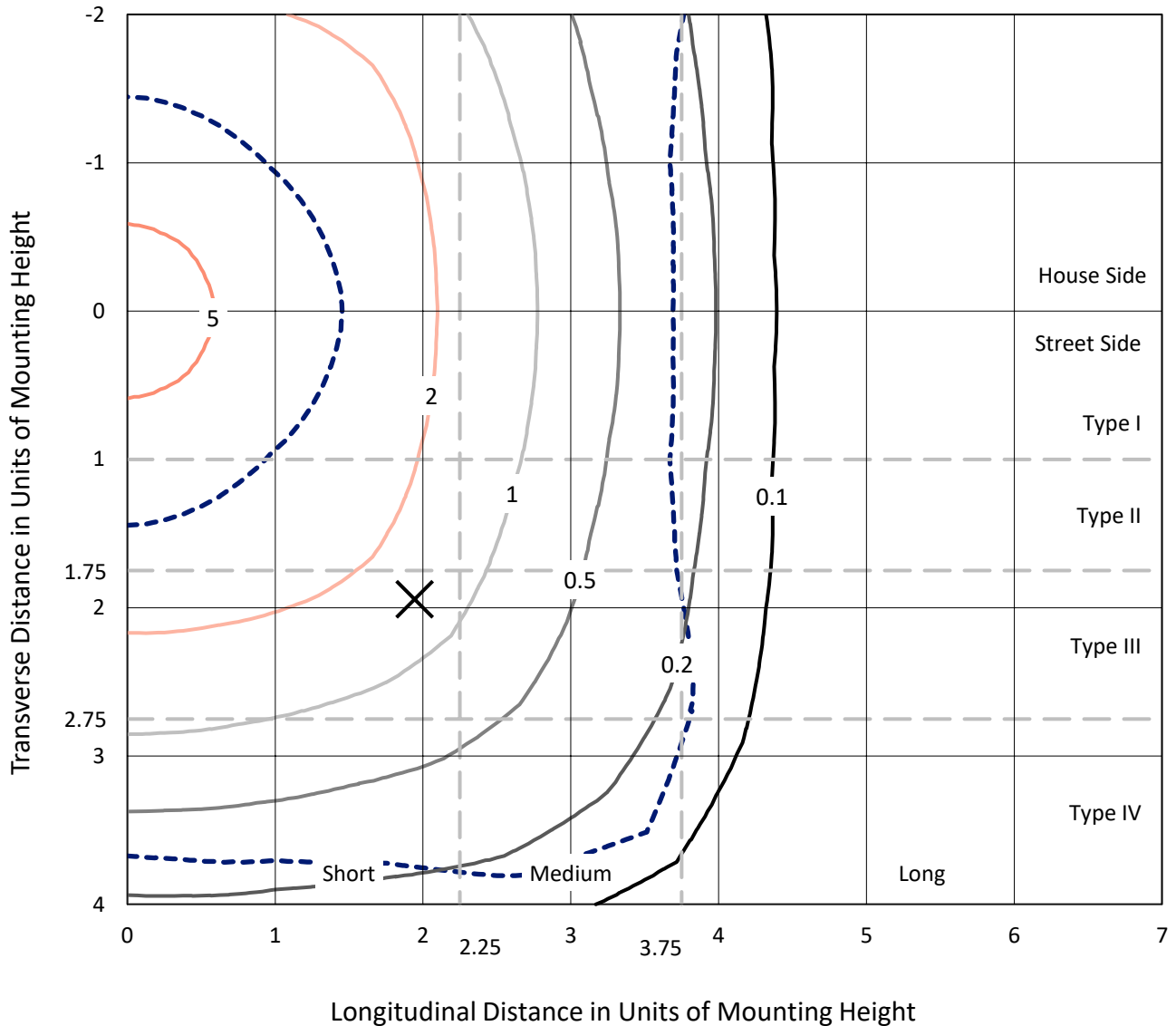
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

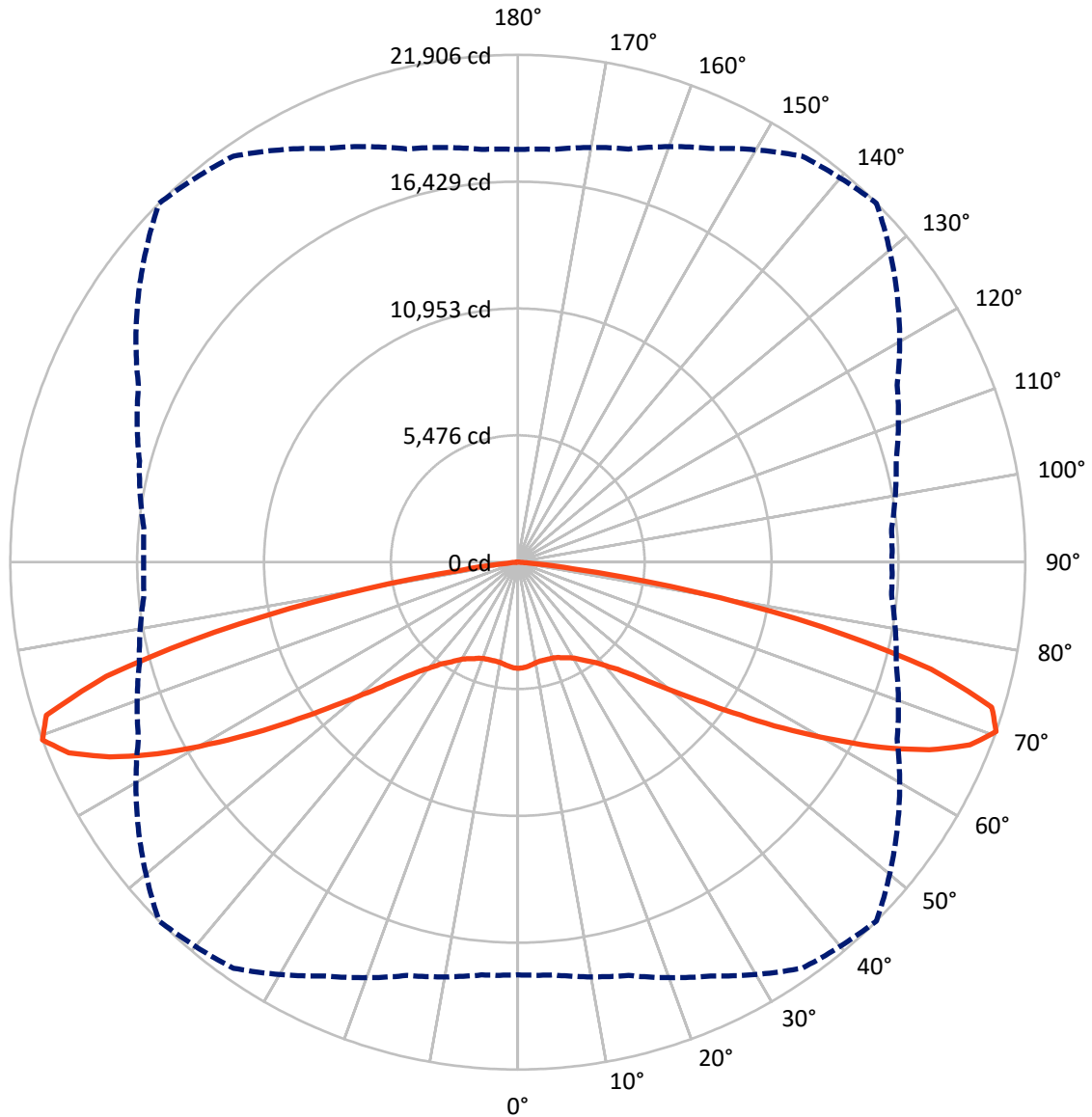
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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	27056.0	0.0	27056.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	27056.0	0.0	27056.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	54112.0	0.0	54112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.4	0.8
10°-20°	1254.3	2.3
20°-30°	2137.0	3.9
30°-40°	3312.3	6.1
40°-50°	5575.0	10.3
50°-60°	10143.5	18.7
60°-70°	17172.7	31.7
70°-80°	13292.3	24.6
80°-90°	796.5	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°	54112.0	100.0
0°-180°	54112.0	100.0

Coefficient of Utilization



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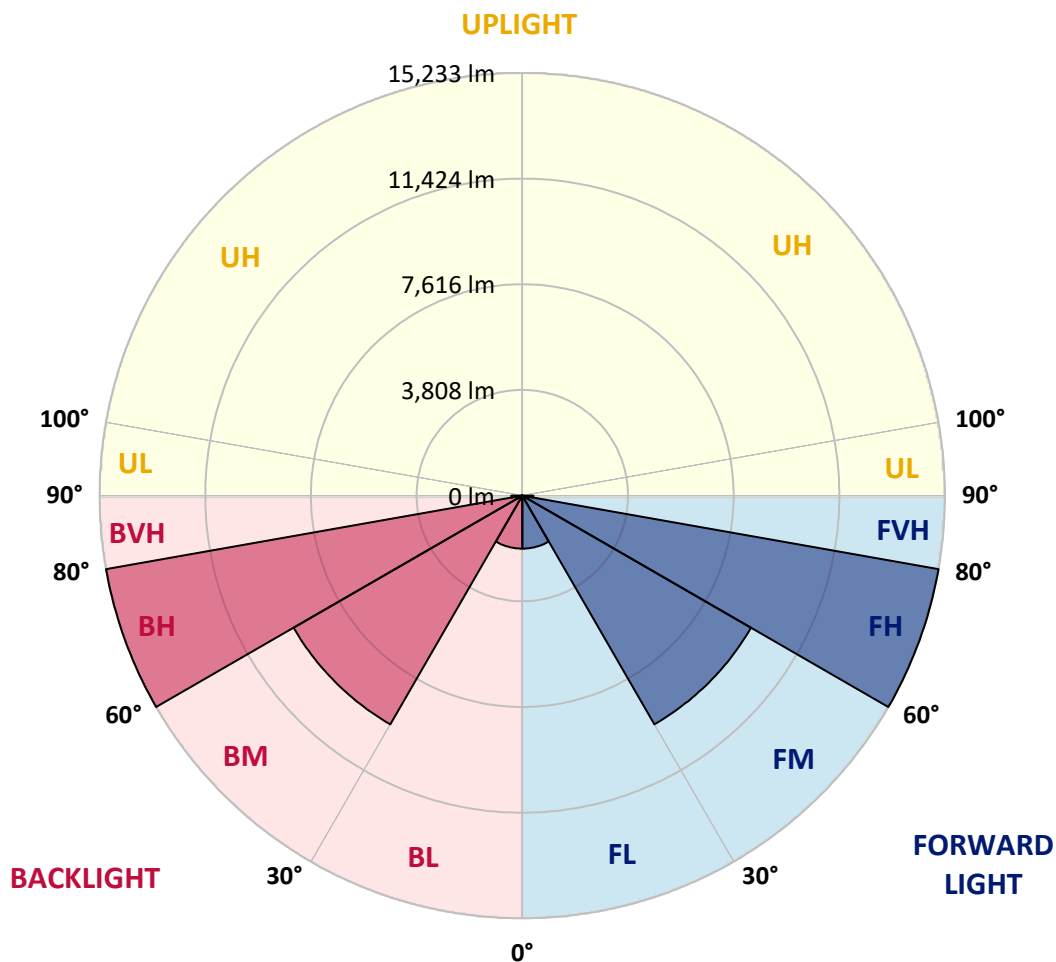
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1909.8	3.5			
FM (30°-60°)	9515.4	17.6			
FH (60°-80°)	15232.5	28.1			G5
FVH (80°-90°)	398.3	0.7			G3/500
BL (0°-30°)	1909.8	3.5	B3/2500		
BM (30°-60°)	9515.4	17.6	B5		
BH (60°-80°)	15232.5	28.1	B5		G5
BVH (80°-90°)	398.3	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°	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2	4581.2
2.5°	4569.8	4572.7	4572.7	4567.0	4564.1	4564.1	4561.2	4561.2	4569.8	4572.7	4575.5
5°	4529.8	4529.8	4529.8	4526.9	4521.2	4521.2	4515.5	4515.5	4518.4	4526.9	4521.2
7.5°	4475.5	4481.2	4481.2	4469.8	4461.2	4461.2	4458.4	4461.2	4464.1	4472.6	4469.8
10°	4458.4	4461.2	4446.9	4426.9	4412.6	4404.1	4406.9	4412.6	4426.9	4432.6	4435.5
12.5°	4469.8	4469.8	4444.1	4415.5	4389.8	4378.3	4375.5	4395.5	4421.2	4438.3	4444.1
15°	4484.1	4478.4	4446.9	4409.8	4384.0	4381.2	4378.3	4392.6	4429.8	4464.1	4466.9
17.5°	4492.6	4489.8	4449.8	4404.1	4389.8	4389.8	4386.9	4398.3	4438.3	4481.2	4484.1
20°	4521.2	4512.7	4466.9	4418.3	4406.9	4412.6	4404.1	4418.3	4461.2	4512.7	4524.1
22.5°	4578.4	4569.8	4524.1	4475.5	4469.8	4469.8	4466.9	4481.2	4526.9	4581.2	4589.8
25°	4647.0	4638.4	4595.5	4561.2	4567.0	4578.4	4572.7	4575.5	4612.7	4658.4	4672.7
27.5°	4738.4	4724.1	4687.0	4658.4	4675.6	4675.6	4675.6	4672.7	4695.6	4738.4	4752.7
30°	4849.9	4844.2	4804.2	4801.3	4815.6	4801.3	4801.3	4804.2	4807.0	4847.0	4861.3
32.5°	4995.6	4984.2	4964.2	4958.5	4998.5	5009.9	4969.9	4932.8	4952.8	4992.8	5001.4
35°	5235.7	5218.6	5190.0	5158.5	5190.0	5244.3	5158.5	5130.0	5181.4	5235.7	5241.4
37.5°	5561.5	5552.9	5507.2	5450.1	5447.2	5504.4	5415.8	5412.9	5510.1	5575.8	5584.4
40°	5970.2	5978.8	5921.6	5867.3	5838.7	5884.5	5815.9	5841.6	5935.9	6010.2	6004.5
42.5°	6544.6	6513.2	6424.6	6373.2	6341.7	6324.6	6307.4	6347.4	6453.2	6533.2	6596.1
45°	7216.2	7204.8	7093.4	7030.5	6961.9	6936.2	6930.5	7001.9	7130.5	7227.7	7236.2
47.5°	7976.5	7950.7	7879.3	7813.5	7787.8	7756.4	7727.8	7782.1	7910.7	7979.3	7999.3
50°	8759.5	8765.2	8765.2	8753.8	8779.5	8785.2	8708.1	8728.1	8799.5	8793.8	8788.1
52.5°	9654.0	9685.5	9834.1	9848.4	9971.3	10054.2	9914.1	9831.2	9805.5	9651.2	9662.6
55°	10705.8	10734.3	10957.3	11180.2	11511.7	11651.7	11357.4	11100.2	10917.2	10682.9	10694.3
57.5°	12017.5	12031.8	12243.3	12672.0	13197.9	13526.5	13009.2	12500.5	12129.0	11906.1	11817.5
60°	13429.4	13443.6	13752.3	14275.3	15092.7	15492.8	14852.6	14020.9	13552.2	13212.2	13235.0
62.5°	15124.1	15181.3	15458.5	16178.7	17170.4	17619.1	16770.3	15658.5	15024.1	14601.1	14618.3
65°	16938.9	17036.1	17339.0	18130.6	19045.2	19528.2	18487.9	17204.7	16415.9	15898.6	15952.9
67.5°	18116.3	18202.1	18639.3	19513.9	20654.2	21054.3	19711.1	18216.4	17230.4	16613.1	16498.8
70°	17816.3	17887.7	18470.7	19711.1	21400.1	21905.9	20002.6	18067.8	16907.4	16195.8	16150.1
72.5°	15727.1	15578.5	16430.2	18210.7	20548.4	21397.2	19085.2	16501.6	15041.2	14309.6	14223.9
75°	10422.8	10745.8	12003.3	14101.0	17384.7	18436.4	16290.1	13249.3	11411.7	10802.9	10708.6
77.5°	3483.8	3732.4	4849.9	7993.6	11851.8	13432.2	11868.9	8665.2	6130.2	4938.5	4961.3
80°	923.1	911.7	1180.3	2197.7	5121.4	7779.3	5961.6	2935.1	1606.2	1163.2	1103.2
82.5°	331.5	371.5	477.3	608.7	1357.5	2417.8	1706.2	823.1	603.0	445.8	431.5
85°	145.8	142.9	205.8	242.9	340.1	451.6	400.1	348.7	305.8	202.9	188.6
87.5°	31.4	31.4	48.6	37.2	60.0	60.0	74.3	88.6	91.5	60.0	48.6
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)