

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: P456251

Luminaire Tested: **GALN-SA7C-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456251
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46773 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

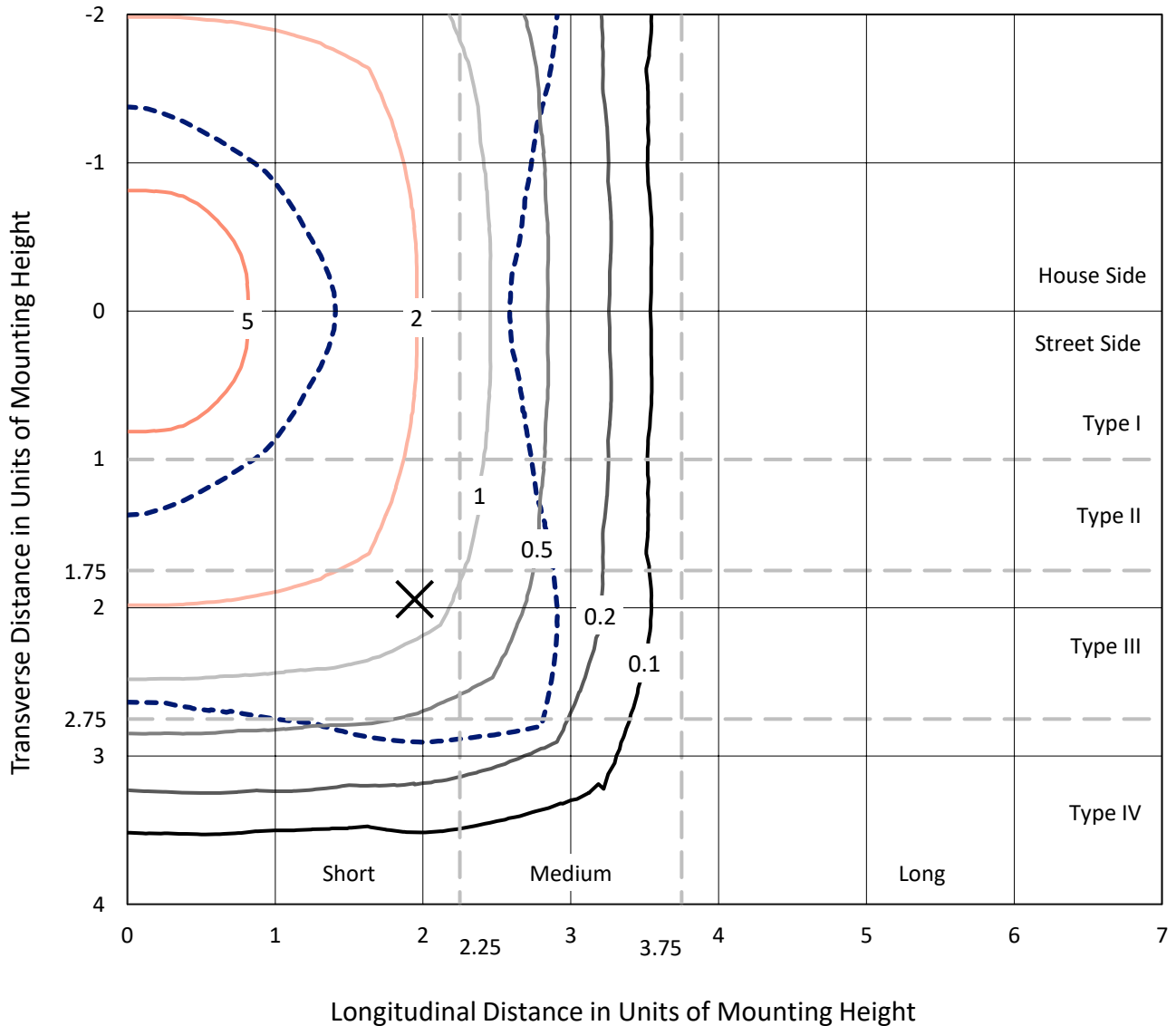
Input Watts (W): 377
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456251
 CATALOG NUMBER: GALN-SA7C-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

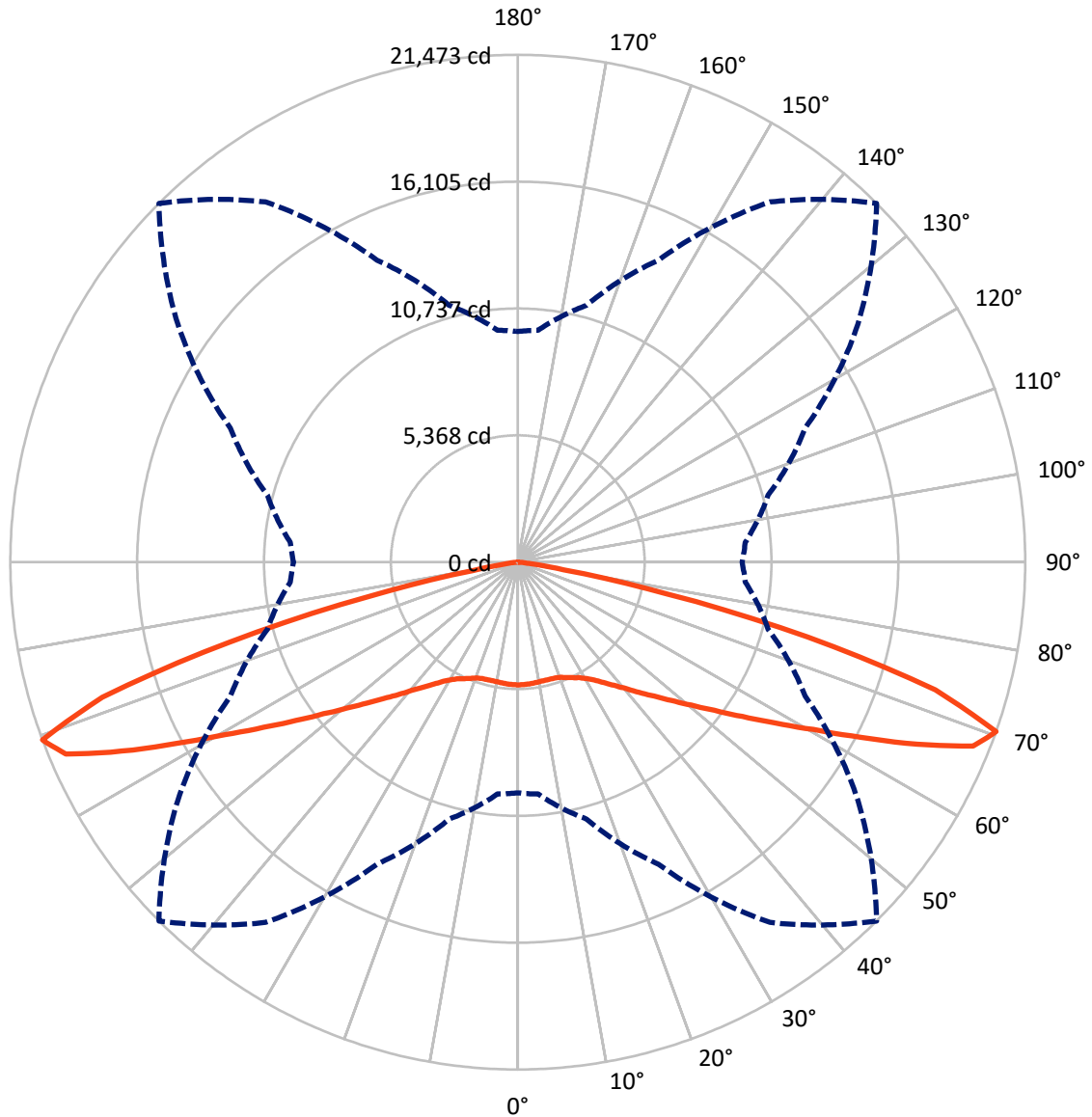
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

REPORT NUMBER: P456251
CATALOG NUMBER: GALN-SA7C-730-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P456251

CATALOG NUMBER: GALN-SA7C-730-U-5MQ

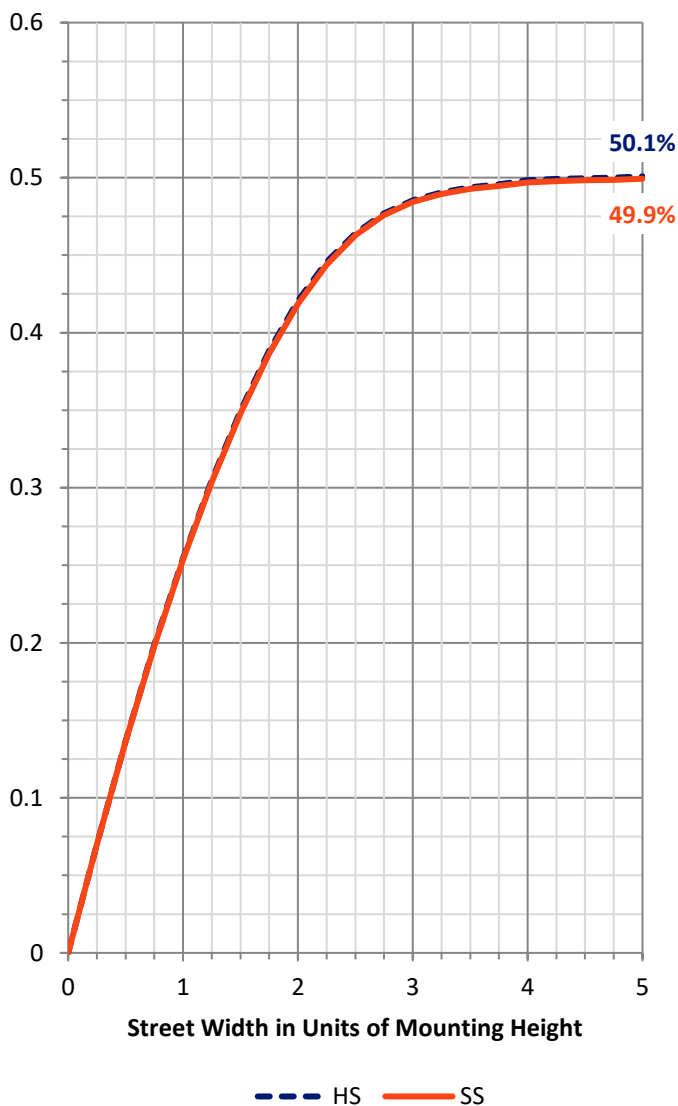
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	23386.5	0.0	23386.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	23386.5	0.0	23386.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	46773.0	0.0	46773.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	492.5	1.1
10°-20°	1445.3	3.1
20°-30°	2471.9	5.3
30°-40°	3923.4	8.4
40°-50°	6329.6	13.5
50°-60°	10298.3	22.0
60°-70°	14928.9	31.9
70°-80°	6621.9	14.2
80°-90°	261.2	0.6
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°	46773.0	100.0
0°-180°	46773.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456251

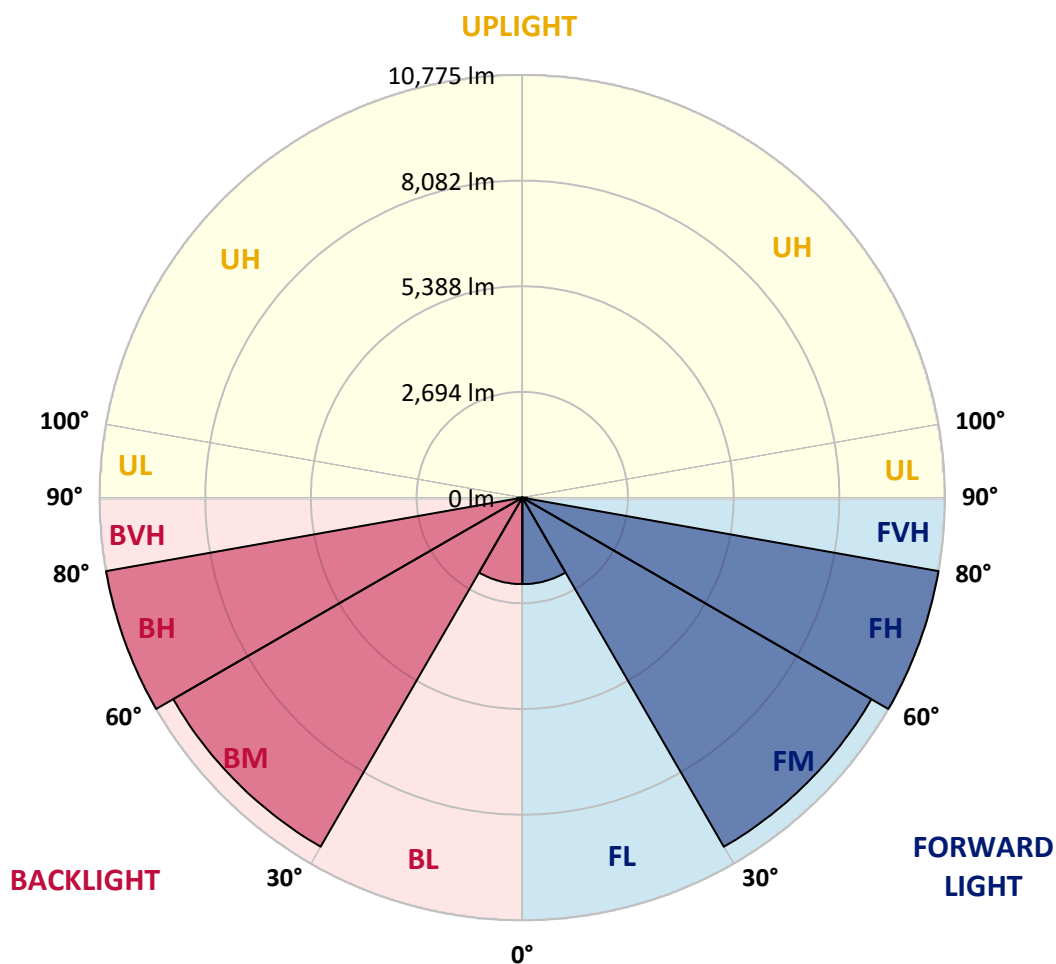
CATALOG NUMBER: GALN-SA7C-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2204.9	4.7			
FM (30°-60°)	10275.7	22.0			
FH (60°-80°)	10775.4	23.0			G4/12000
FVH (80°-90°)	130.6	0.3			G2/225
BL (0°-30°)	2204.9	4.7	B3/2500		
BM (30°-60°)	10275.7	22.0	B5		
BH (60°-80°)	10775.4	23.0	B5		G4/12000
BVH (80°-90°)	130.6	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-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5193.9	5193.9	5193.9	5193.9	5193.9	5193.9	5193.9	5193.9	5193.9	5193.9	5193.9
2.5°	5193.9	5198.9	5191.5	5186.5	5184.1	5184.1	5181.6	5184.1	5198.9	5201.3	5193.9
5°	5179.1	5184.1	5181.6	5176.7	5174.2	5174.2	5171.7	5169.3	5181.6	5186.5	5184.1
7.5°	5159.4	5161.9	5159.4	5156.9	5159.4	5156.9	5149.5	5144.6	5154.5	5154.5	5152.0
10°	5124.9	5129.8	5127.4	5129.8	5134.8	5134.8	5124.9	5115.0	5117.5	5112.6	5112.6
12.5°	5083.0	5090.4	5092.9	5102.7	5115.0	5129.8	5107.6	5085.5	5080.5	5078.1	5075.6
15°	5055.9	5063.3	5073.1	5083.0	5105.2	5137.2	5105.2	5070.7	5060.8	5050.9	5046.0
17.5°	5048.5	5058.3	5073.1	5087.9	5117.5	5149.5	5122.4	5087.9	5063.3	5048.5	5043.6
20°	5068.2	5075.6	5097.8	5124.9	5166.8	5198.9	5171.7	5134.8	5097.8	5075.6	5068.2
22.5°	5107.6	5120.0	5147.1	5196.4	5255.5	5302.4	5265.4	5203.8	5144.6	5115.0	5105.2
25°	5193.9	5203.8	5235.8	5302.4	5371.4	5415.8	5376.3	5304.8	5223.5	5184.1	5171.7
27.5°	5324.6	5339.4	5373.9	5452.8	5509.5	5534.1	5507.0	5457.7	5398.5	5356.6	5346.8
30°	5509.5	5526.7	5578.5	5662.3	5699.3	5714.1	5701.7	5669.7	5627.8	5583.4	5573.5
32.5°	5758.4	5768.3	5827.4	5906.3	5940.8	5945.8	5931.0	5916.2	5847.2	5773.2	5768.3
35°	6037.0	6054.2	6125.7	6219.4	6251.4	6253.9	6224.3	6202.1	6120.8	6061.6	6061.6
37.5°	6406.7	6414.1	6483.2	6589.2	6623.7	6613.8	6599.0	6579.3	6493.0	6416.6	6419.1
40°	6840.6	6855.4	6914.5	7037.8	7037.8	7025.5	7035.3	7020.5	6934.3	6860.3	6862.8
42.5°	7355.8	7363.2	7434.7	7565.3	7555.5	7530.8	7540.7	7521.0	7466.7	7382.9	7353.3
45°	7905.5	7935.1	8058.3	8184.1	8164.3	8085.5	8124.9	8120.0	8070.7	7944.9	7952.3
47.5°	8568.6	8617.9	8736.2	8886.6	8864.4	8741.2	8785.5	8815.1	8746.1	8608.1	8583.4
50°	9315.5	9347.6	9522.6	9663.1	9643.4	9512.7	9613.8	9618.7	9446.2	9251.4	9251.4
52.5°	10111.8	10143.8	10380.4	10599.8	10612.2	10422.4	10503.7	10498.8	10217.8	9961.4	9912.1
55°	11004.1	11018.9	11324.6	11647.5	11716.5	11531.6	11541.5	11442.9	11078.1	10779.8	10752.7
57.5°	11926.1	11980.3	12318.0	12737.1	12941.7	12828.3	12776.5	12512.7	12160.2	11817.6	11800.3
60°	12946.6	12949.1	13387.8	13883.3	14297.5	14373.9	14161.9	13809.4	13353.3	12899.8	12880.0
62.5°	13654.1	13760.1	14314.7	15152.8	15894.8	16323.8	15764.2	15024.7	14127.4	13395.2	13321.3
65°	13799.5	13871.0	14716.5	16136.4	17652.4	18576.8	17282.7	15709.9	14179.1	13203.0	13153.7
67.5°	12623.7	12700.1	13839.0	16018.1	18885.0	20780.6	18268.7	15379.6	13301.6	12093.7	11997.5
70°	9764.2	9850.5	11258.0	14100.3	18611.3	21473.3	17566.2	13415.0	10969.6	9665.6	9490.6
72.5°	5191.5	5509.5	6712.4	9677.9	15106.0	18488.1	14403.5	9788.8	7074.8	5783.1	5551.4
75°	1895.6	1935.1	2605.6	4291.7	8788.0	12677.9	9125.7	4668.9	2684.5	2073.1	1967.1
77.5°	783.9	781.4	857.8	1296.6	3192.3	6493.0	3562.0	1370.6	855.4	791.3	781.4
80°	463.4	463.4	510.3	539.9	840.6	1959.7	939.2	611.3	512.7	468.4	475.8
82.5°	207.1	219.4	322.9	340.2	406.7	537.4	453.6	389.5	335.3	231.7	209.5
85°	113.4	98.6	170.1	177.5	194.7	199.7	214.5	212.0	194.7	113.4	115.9
87.5°	22.2	27.1	49.3	37.0	41.9	37.0	49.3	69.0	71.5	39.4	32.0
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)