

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: P453699

Luminaire Tested: **GALN-SA4D-730-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453699
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-SA4D-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29231 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

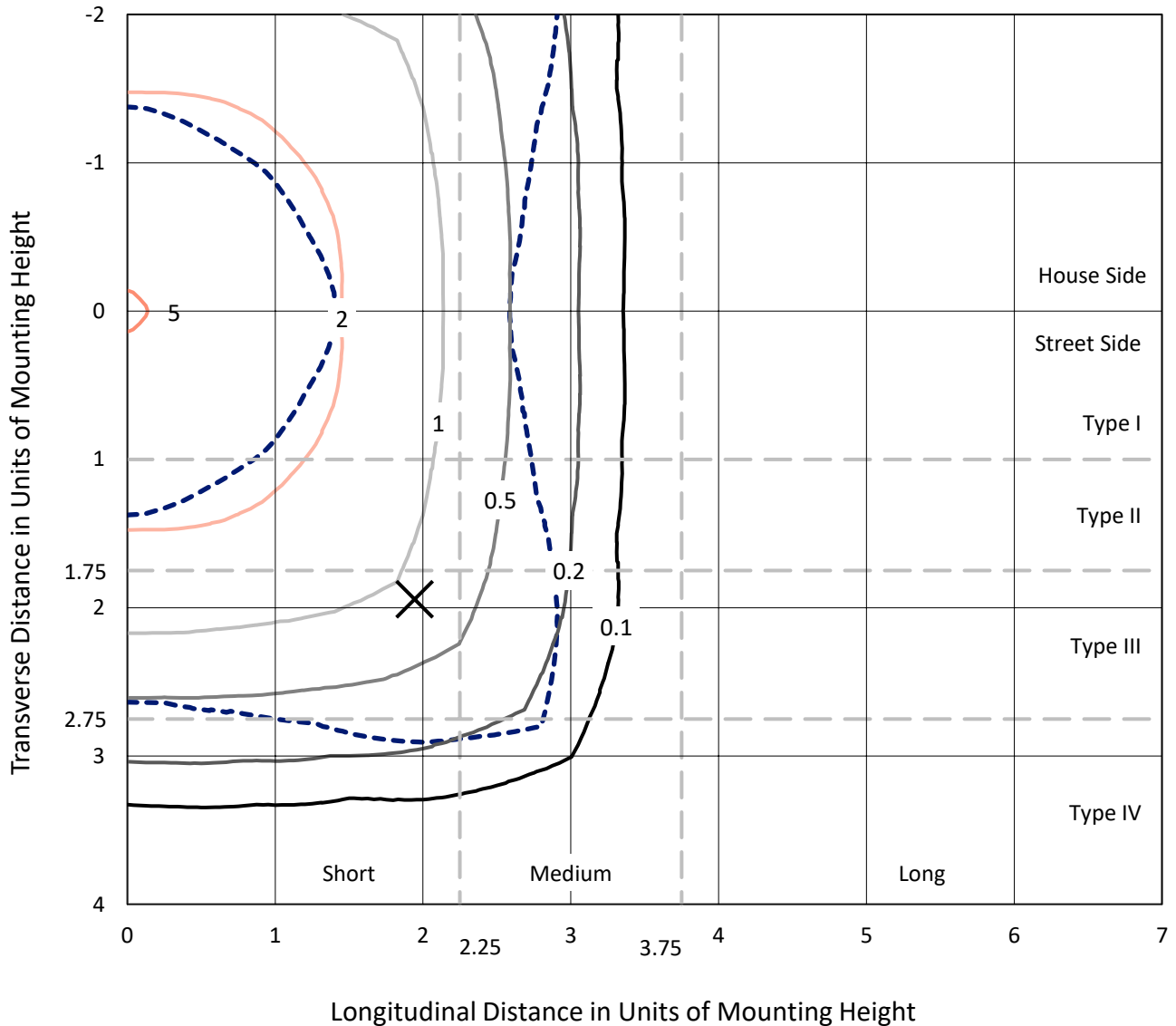
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P453699
 CATALOG NUMBER: GALN-SA4D-730-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

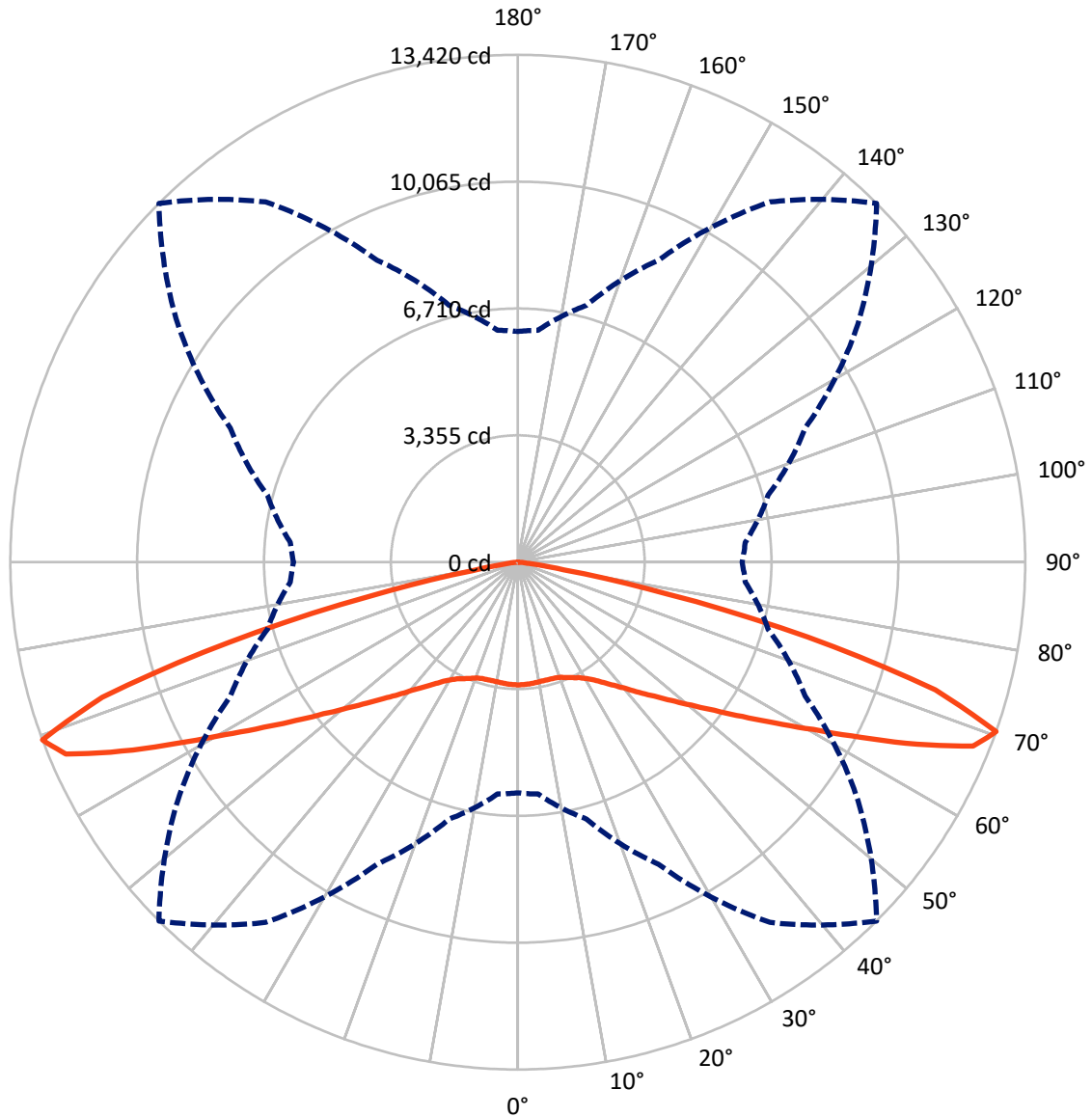
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type V - Short - N/A

REPORT NUMBER: P453699
CATALOG NUMBER: GALN-SA4D-730-U-5MQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P453699

CATALOG NUMBER: GALN-SA4D-730-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14615.5	0.0	14615.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14615.5	0.0	14615.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	29231.0	0.0	29231.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	307.8	1.1
10°-20°	903.3	3.1
20°-30°	1544.8	5.3
30°-40°	2452.0	8.4
40°-50°	3955.7	13.5
50°-60°	6436.0	22.0
60°-70°	9329.8	31.9
70°-80°	4138.4	14.2
80°-90°	163.2	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°	29231.0	100.0
0°-180°	29231.0	100.0

Coefficient of Utilization



REPORT NUMBER: P453699

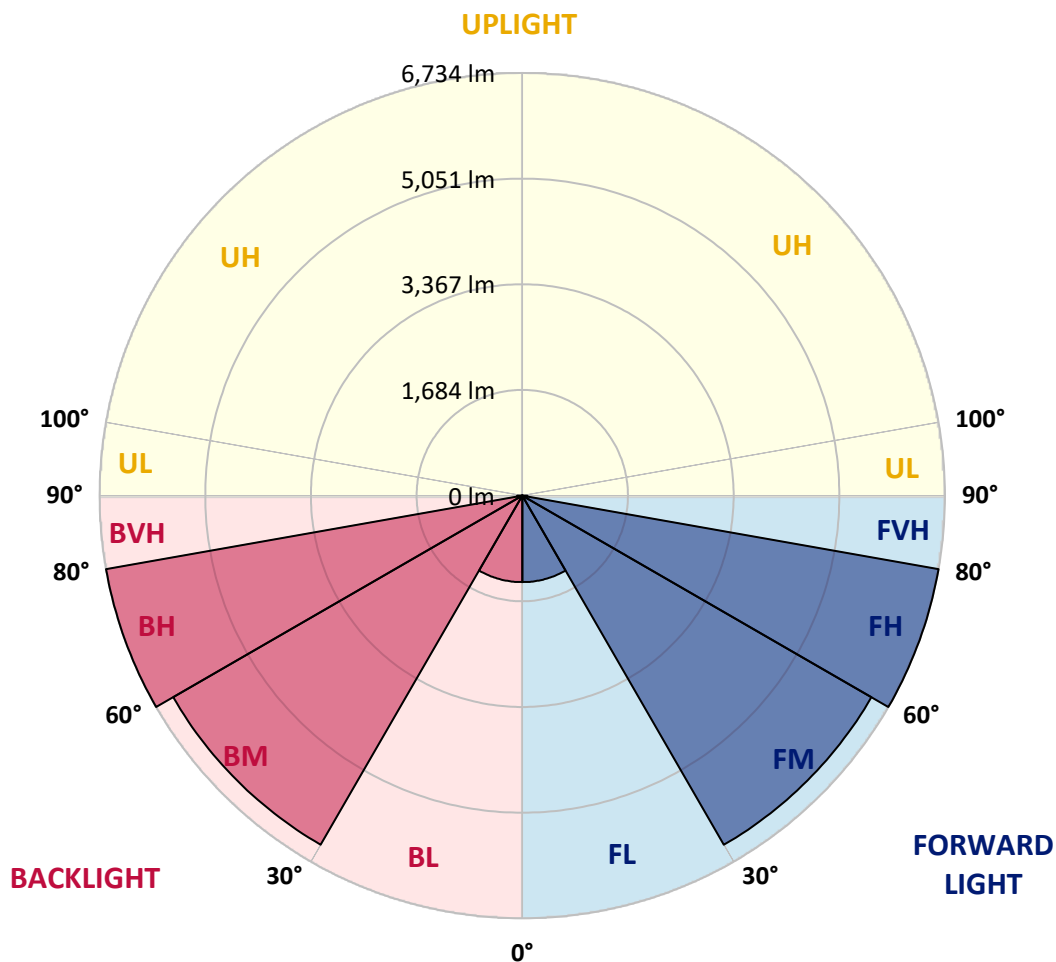
CATALOG NUMBER: GALN-SA4D-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1377.9	4.7			
FM	(30°-60°)	6421.8	22.0			
FH	(60°-80°)	6734.1	23.0			G3/7500
FVH	(80°-90°)	81.6	0.3			G1/100
BL	(0°-30°)	1377.9	4.7	B3/2500		
BM	(30°-60°)	6421.8	22.0	B4/8500		
BH	(60°-80°)	6734.1	23.0	B5		G3/7500
BVH	(80°-90°)	81.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





REPORT NUMBER: P453699

CATALOG NUMBER: GALN-SA4D-730-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0	3246.0
2.5°	3246.0	3249.0	3244.4	3241.3	3239.8	3239.8	3238.3	3239.8	3249.0	3250.6	3246.0
5°	3236.7	3239.8	3238.3	3235.2	3233.6	3233.6	3232.1	3230.6	3238.3	3241.3	3239.8
7.5°	3224.4	3225.9	3224.4	3222.9	3224.4	3222.9	3218.2	3215.2	3221.3	3221.3	3219.8
10°	3202.8	3205.9	3204.4	3205.9	3209.0	3209.0	3202.8	3196.7	3198.2	3195.1	3195.1
12.5°	3176.6	3181.3	3182.8	3189.0	3196.7	3205.9	3192.0	3178.2	3175.1	3173.6	3172.0
15°	3159.7	3164.3	3170.5	3176.6	3190.5	3210.5	3190.5	3168.9	3162.8	3156.6	3153.5
17.5°	3155.1	3161.2	3170.5	3179.7	3198.2	3218.2	3201.3	3179.7	3164.3	3155.1	3152.0
20°	3167.4	3172.0	3185.9	3202.8	3229.0	3249.0	3232.1	3209.0	3185.9	3172.0	3167.4
22.5°	3192.0	3199.7	3216.7	3247.5	3284.5	3313.7	3290.6	3252.1	3215.2	3196.7	3190.5
25°	3246.0	3252.1	3272.2	3313.7	3356.9	3384.6	3360.0	3315.3	3264.5	3239.8	3232.1
27.5°	3327.6	3336.9	3358.4	3407.7	3443.2	3458.6	3441.6	3410.8	3373.8	3347.6	3341.5
30°	3443.2	3453.9	3486.3	3538.7	3561.8	3571.0	3563.3	3543.3	3517.1	3489.4	3483.2
32.5°	3598.8	3604.9	3641.9	3691.2	3712.8	3715.8	3706.6	3697.3	3654.2	3608.0	3604.9
35°	3772.8	3783.6	3828.3	3886.8	3906.9	3908.4	3889.9	3876.1	3825.2	3788.2	3788.2
37.5°	4003.9	4008.5	4051.7	4117.9	4139.5	4133.3	4124.1	4111.8	4057.8	4010.1	4011.6
40°	4275.1	4284.3	4321.3	4398.3	4398.3	4390.6	4396.8	4387.5	4333.6	4287.4	4288.9
42.5°	4597.0	4601.7	4646.3	4728.0	4721.8	4706.4	4712.6	4700.3	4666.4	4614.0	4595.5
45°	4940.6	4959.1	5036.1	5114.7	5102.3	5053.0	5077.7	5074.6	5043.8	4965.2	4969.9
47.5°	5355.0	5385.8	5459.8	5553.7	5539.9	5462.8	5490.6	5509.1	5465.9	5379.6	5364.2
50°	5821.8	5841.8	5951.2	6039.0	6026.7	5945.0	6008.2	6011.3	5903.4	5781.7	5781.7
52.5°	6319.4	6339.4	6487.3	6624.4	6632.1	6513.5	6564.3	6561.3	6385.6	6225.4	6194.6
55°	6877.1	6886.3	7077.3	7279.2	7322.3	7206.8	7212.9	7151.3	6923.3	6736.9	6719.9
57.5°	7453.2	7487.1	7698.2	7960.1	8088.0	8017.1	7984.7	7819.9	7599.6	7385.5	7374.7
60°	8091.0	8092.6	8366.8	8676.4	8935.3	8983.0	8850.5	8630.2	8345.2	8061.8	8049.4
62.5°	8533.2	8599.4	8946.0	9469.8	9933.5	10201.6	9851.9	9389.7	8829.0	8371.4	8325.2
65°	8624.1	8668.7	9197.2	10084.5	11032.0	11609.7	10800.9	9818.0	8861.3	8251.3	8220.4
67.5°	7889.2	7937.0	8648.7	10010.6	11802.2	12986.9	11417.1	9611.6	8312.9	7558.0	7497.9
70°	6102.2	6156.1	7035.7	8812.0	11631.2	13419.8	10978.0	8383.7	6855.5	6040.5	5931.2
72.5°	3244.4	3443.2	4195.0	6048.2	9440.6	11554.2	9001.5	6117.6	4421.4	3614.2	3469.3
75°	1184.7	1209.3	1628.4	2682.1	5492.1	7923.1	5703.2	2917.8	1677.7	1295.6	1229.4
77.5°	489.9	488.4	536.1	810.3	1995.0	4057.8	2226.1	856.6	534.6	494.5	488.4
80°	289.6	289.6	318.9	337.4	525.3	1224.7	587.0	382.1	320.4	292.7	297.3
82.5°	129.4	137.1	201.8	212.6	254.2	335.8	283.5	243.4	209.5	144.8	130.9
85°	70.9	61.6	106.3	110.9	121.7	124.8	134.0	132.5	121.7	70.9	72.4
87.5°	13.9	16.9	30.8	23.1	26.2	23.1	30.8	43.1	44.7	24.6	20.0
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)