

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: P454629

Luminaire Tested: **GALN-SA5D-730-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454629
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-SA5D-730-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36926 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

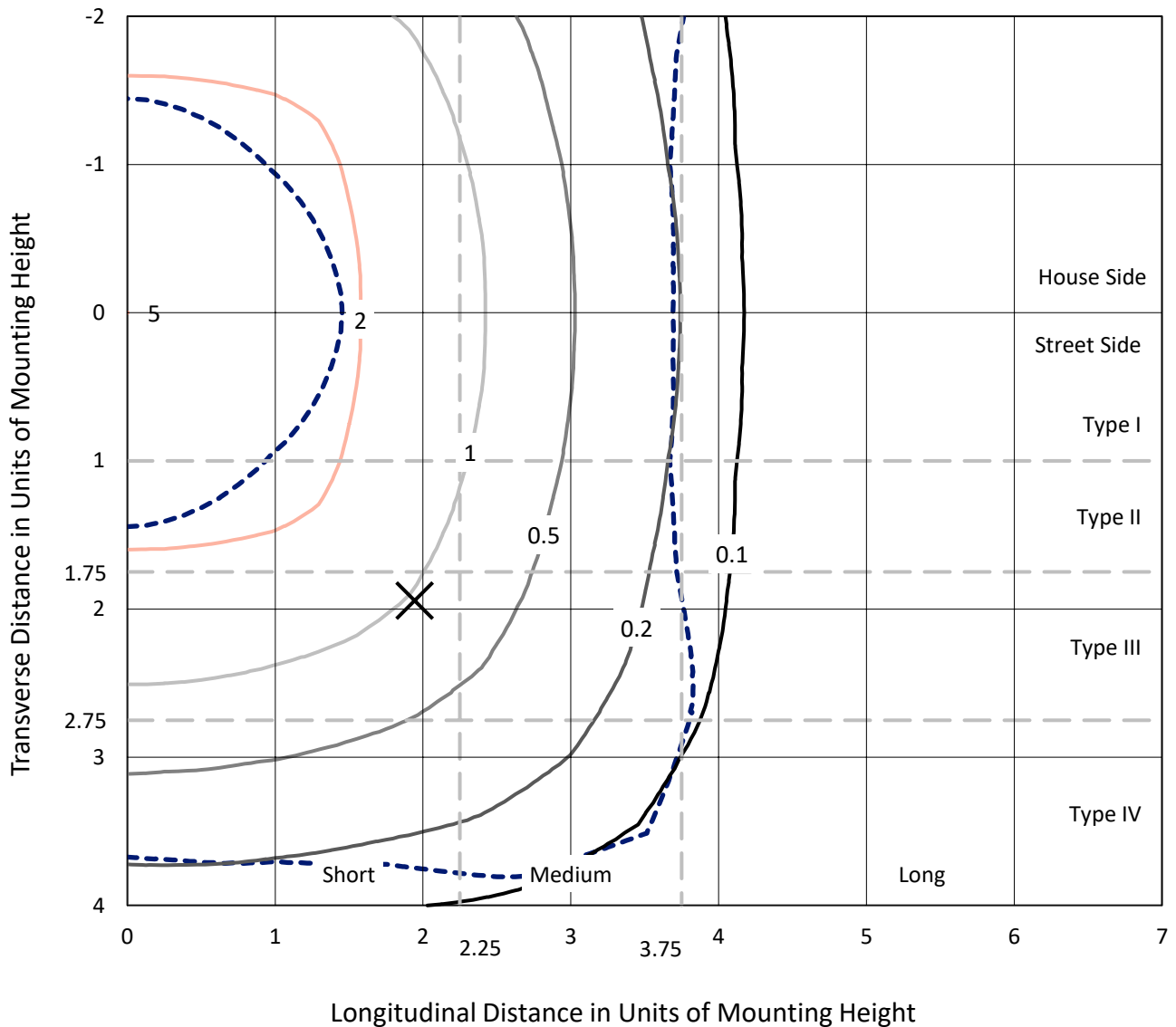
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454629
 CATALOG NUMBER: GALN-SA5D-730-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

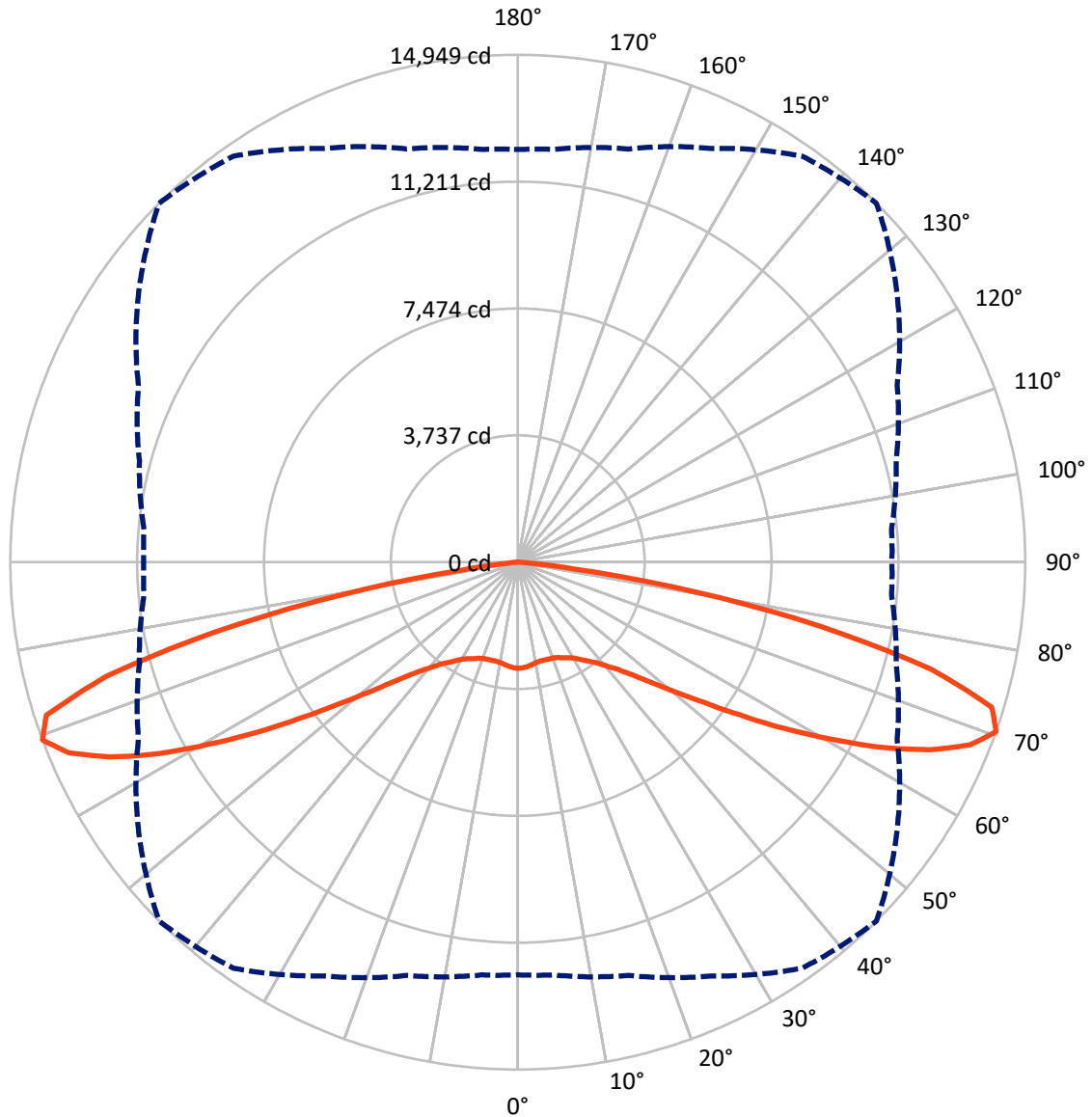
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc
 Type V - Short - N/A

REPORT NUMBER: P454629
CATALOG NUMBER: GALN-SA5D-730-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454629

CATALOG NUMBER: GALN-SA5D-730-U-5WQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18463.0	0.0	18463.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18463.0	0.0	18463.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36926.0	0.0	36926.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	0.8
10°-20°	855.9	2.3
20°-30°	1458.3	3.9
30°-40°	2260.3	6.1
40°-50°	3804.4	10.3
50°-60°	6921.9	18.7
60°-70°	11718.6	31.7
70°-80°	9070.7	24.6
80°-90°	543.5	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°	36926.0	100.0
0°-180°	36926.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454629

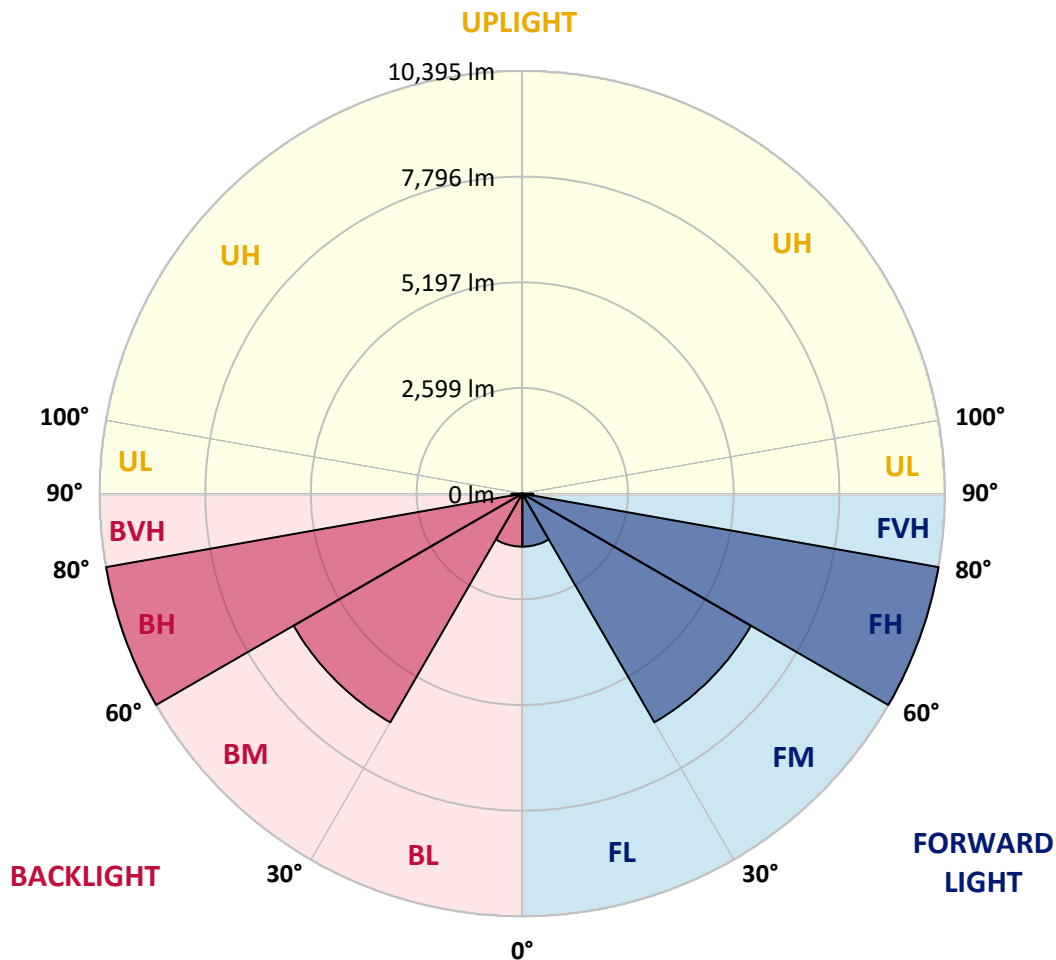
CATALOG NUMBER: GALN-SA5D-730-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1303.3	3.5			
FM	(30°-60°)	6493.3	17.6			
FH	(60°-80°)	10394.7	28.1			G4/12000
FVH	(80°-90°)	271.8	0.7			G3/500
BL	(0°-30°)	1303.3	3.5	B3/2500		
BM	(30°-60°)	6493.3	17.6	B4/8500		
BH	(60°-80°)	10394.7	28.1	B5		G4/12000
BVH	(80°-90°)	271.8	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-G4

Type V Short





REPORT NUMBER: P454629

CATALOG NUMBER: GALN-SA5D-730-U-5WQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3126.2	3126.2	3126.2	3126.2	3126.2	3126.2	3126.2	3126.2	3126.2	3126.2	3126.2
2.5°	3118.4	3120.4	3120.4	3116.5	3114.5	3114.5	3112.6	3112.6	3118.4	3120.4	3122.3
5°	3091.1	3091.1	3091.1	3089.2	3085.3	3085.3	3081.4	3081.4	3083.3	3089.2	3085.3
7.5°	3054.1	3058.0	3058.0	3050.2	3044.3	3044.3	3042.4	3044.3	3046.3	3052.1	3050.2
10°	3042.4	3044.3	3034.6	3020.9	3011.2	3005.3	3007.3	3011.2	3020.9	3024.8	3026.8
12.5°	3050.2	3050.2	3032.6	3013.1	2995.6	2987.8	2985.8	2999.5	3017.0	3028.7	3032.6
15°	3059.9	3056.0	3034.6	3009.2	2991.7	2989.7	2987.8	2997.5	3022.9	3046.3	3048.2
17.5°	3065.8	3063.8	3036.5	3005.3	2995.6	2995.6	2993.6	3001.4	3028.7	3058.0	3059.9
20°	3085.3	3079.4	3048.2	3015.1	3007.3	3011.2	3005.3	3015.1	3044.3	3079.4	3087.2
22.5°	3124.3	3118.4	3087.2	3054.1	3050.2	3050.2	3048.2	3058.0	3089.2	3126.2	3132.1
25°	3171.1	3165.2	3136.0	3112.6	3116.5	3124.3	3120.4	3122.3	3147.7	3178.9	3188.6
27.5°	3233.5	3223.8	3198.4	3178.9	3190.6	3190.6	3190.6	3188.6	3204.2	3233.5	3243.3
30°	3309.6	3305.7	3278.4	3276.4	3286.2	3276.4	3276.4	3278.4	3280.3	3307.6	3317.4
32.5°	3409.0	3401.2	3387.6	3383.7	3411.0	3418.8	3391.5	3366.1	3379.8	3407.1	3412.9
35°	3572.8	3561.1	3541.6	3520.2	3541.6	3578.7	3520.2	3500.7	3535.8	3572.8	3576.7
37.5°	3795.2	3789.3	3758.1	3719.1	3717.2	3756.2	3695.7	3693.8	3760.1	3804.9	3810.8
40°	4074.1	4079.9	4040.9	4003.8	3984.3	4015.5	3968.7	3986.3	4050.7	4101.4	4097.5
42.5°	4466.1	4444.6	4384.1	4349.0	4327.6	4315.9	4304.2	4331.5	4403.6	4458.3	4501.2
45°	4924.4	4916.6	4840.5	4797.6	4750.8	4733.2	4729.3	4778.1	4865.9	4932.2	4938.0
47.5°	5443.1	5425.6	5376.8	5332.0	5314.4	5293.0	5273.5	5310.5	5398.3	5445.1	5458.7
50°	5977.5	5981.4	5981.4	5973.6	5991.1	5995.0	5942.4	5956.0	6004.8	6000.9	5997.0
52.5°	6587.9	6609.4	6710.8	6720.5	6804.4	6861.0	6765.4	6708.8	6691.3	6586.0	6593.8
55°	7305.6	7325.1	7477.2	7629.3	7855.6	7951.1	7750.3	7574.7	7449.9	7290.0	7297.8
57.5°	8200.8	8210.5	8354.8	8647.4	9006.2	9230.5	8877.5	8530.4	8276.8	8124.7	8064.3
60°	9164.2	9173.9	9384.6	9741.5	10299.2	10572.3	10135.4	9567.9	9248.0	9016.0	9031.6
62.5°	10320.7	10359.7	10548.9	11040.3	11717.1	12023.2	11444.0	10685.4	10252.4	9963.8	9975.5
65°	11559.1	11625.4	11832.1	12372.3	12996.4	13326.0	12616.1	11740.5	11202.2	10849.2	10886.3
67.5°	12362.6	12421.1	12719.5	13316.3	14094.4	14367.4	13450.8	12430.8	11758.0	11336.8	11258.7
70°	12157.8	12206.6	12604.4	13450.8	14603.4	14948.6	13649.7	12329.4	11537.6	11052.0	11020.8
72.5°	10732.2	10630.8	11211.9	12426.9	14022.2	14601.5	13023.7	11260.7	10264.1	9764.9	9706.4
75°	7112.5	7332.9	8191.0	9622.5	11863.3	12581.0	11116.4	9041.3	7787.3	7371.9	7307.6
77.5°	2377.3	2547.0	3309.6	5454.8	8087.7	9166.1	8099.4	5913.1	4183.3	3370.0	3385.6
80°	629.9	622.1	805.4	1499.7	3494.8	5308.6	4068.2	2002.9	1096.0	793.7	752.8
82.5°	226.2	253.5	325.7	415.4	926.4	1649.9	1164.3	561.7	411.5	304.2	294.5
85°	99.5	97.5	140.4	165.8	232.1	308.1	273.0	237.9	208.7	138.5	128.7
87.5°	21.5	21.5	33.2	25.4	41.0	41.0	50.7	60.5	62.4	41.0	33.2
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)