

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: P455788

Luminaire Tested: **GALN-SA7A-730-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455788
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30274 lumens
Efficiency: N/A
Efficacy: 140.8 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

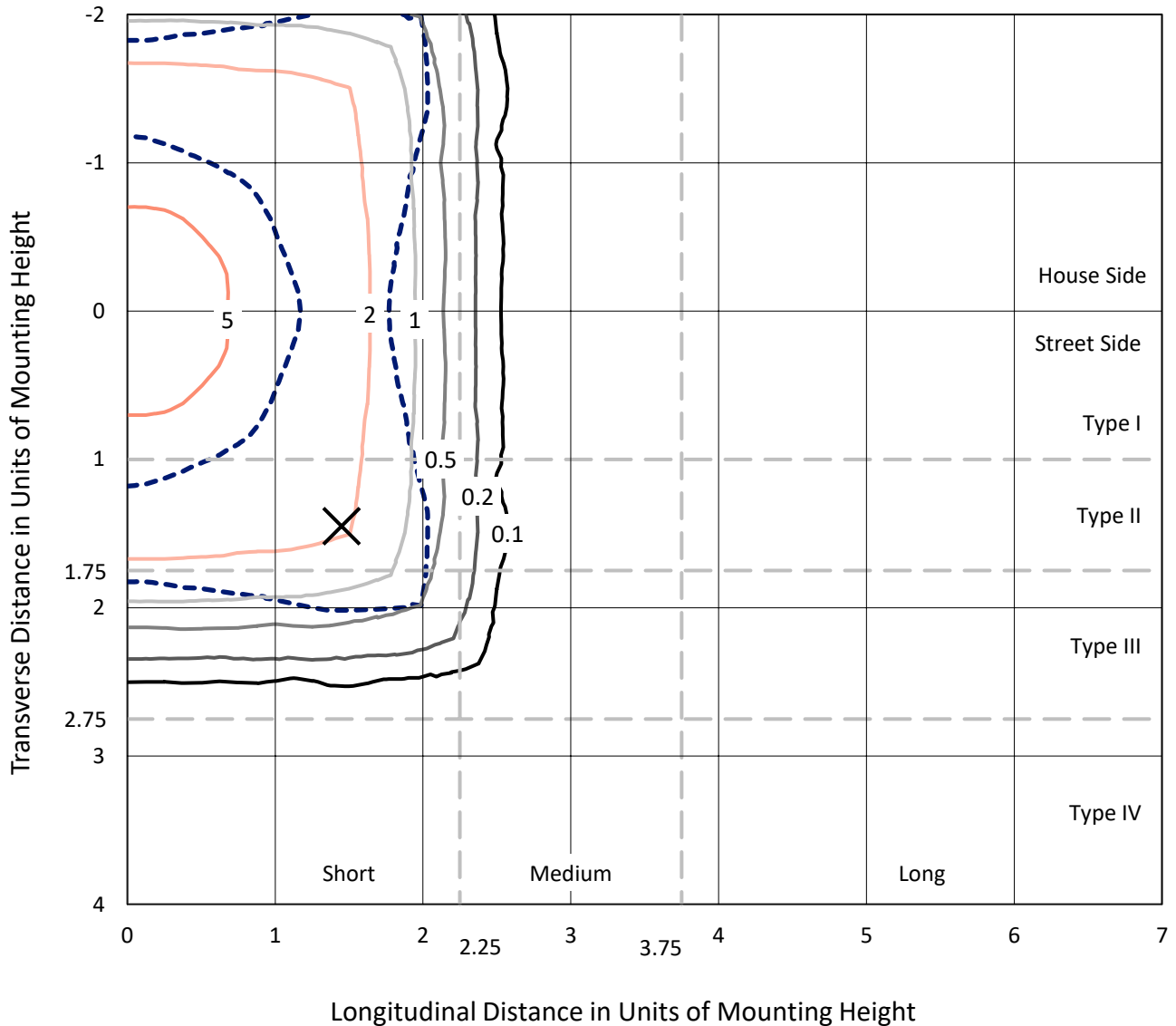
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

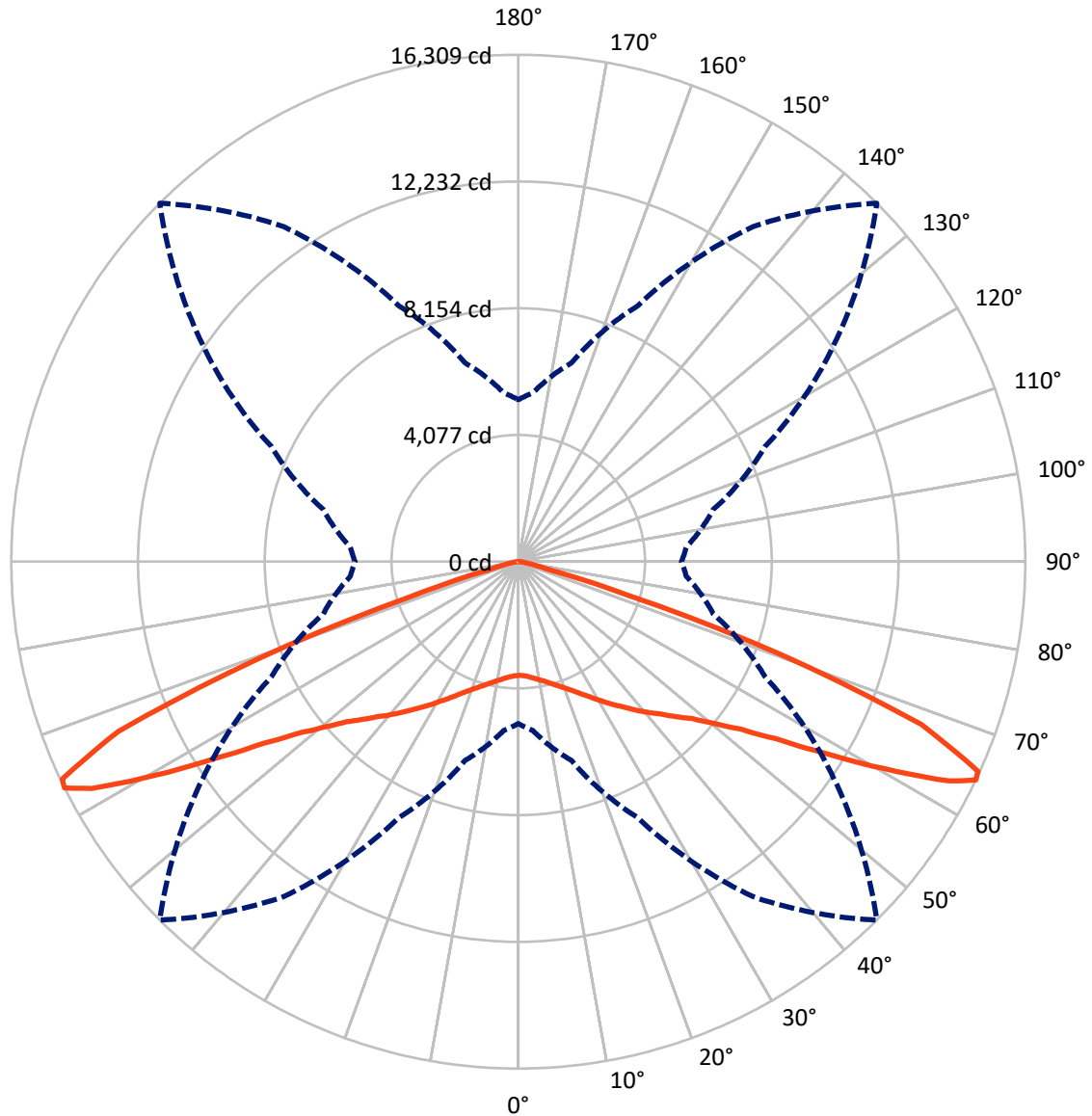
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Short - N/A

REPORT NUMBER: P455788
CATALOG NUMBER: GALN-SA7A-730-U-5NQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15137.0	0.0	15137.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15137.0	0.0	15137.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	30274.0	0.0	30274.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	1.2
10°-20°	1159.6	3.8
20°-30°	2191.2	7.2
30°-40°	3629.0	12.0
40°-50°	5665.4	18.7
50°-60°	8758.6	28.9
60°-70°	7552.4	24.9
70°-80°	855.9	2.8
80°-90°	102.5	0.3
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°	30274.0	100.0
0°-180°	30274.0	100.0



REPORT NUMBER: P455788

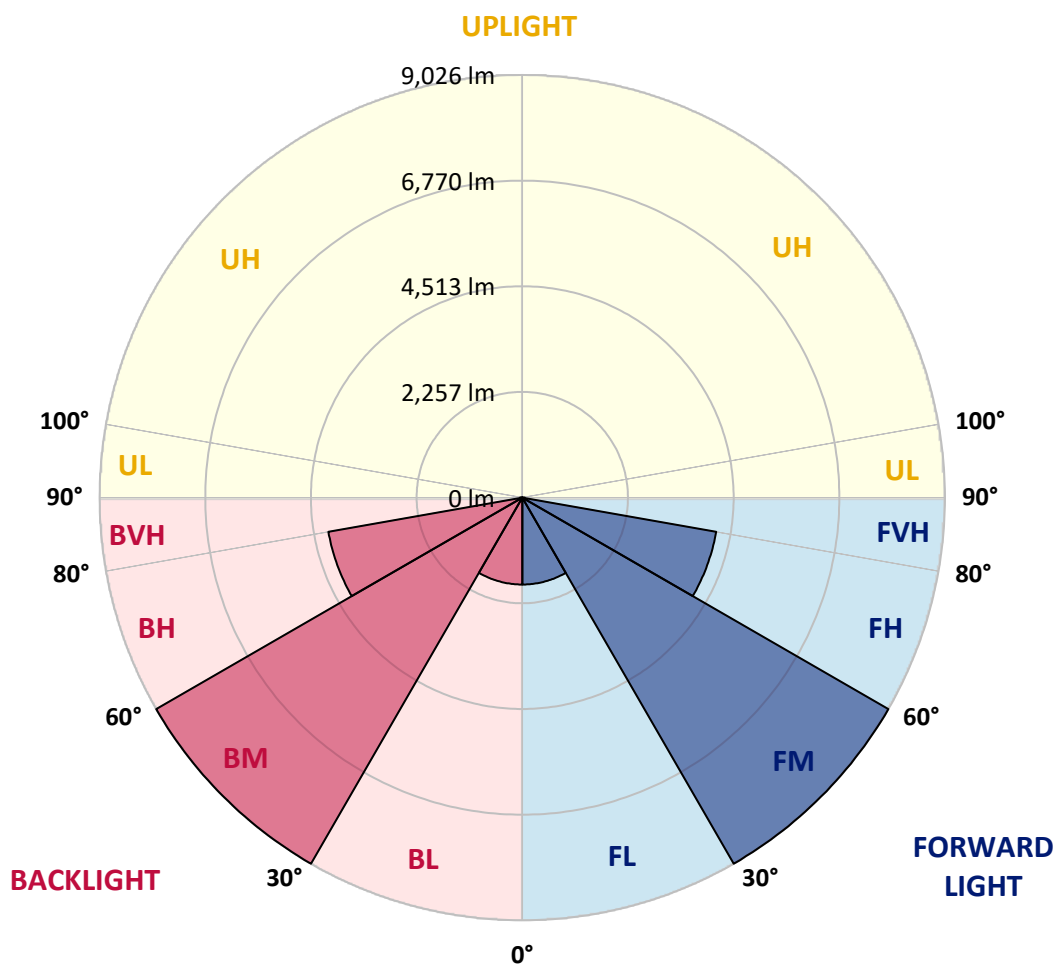
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1855.1	6.1			
FM	(30°-60°)	9026.4	29.8			
FH	(60°-80°)	4204.1	13.9			G2/5000
FVH	(80°-90°)	51.3	0.2			G1/100
BL	(0°-30°)	1855.1	6.1	B3/2500		
BM	(30°-60°)	9026.4	29.8	B5		
BH	(60°-80°)	4204.1	13.9	B4/5000		G2/5000
BVH	(80°-90°)	51.3	0.2			G1/100
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°	3659.1	3659.1	3659.1	3659.1	3659.1	3659.1	3659.1	3659.1	3659.1	3659.1	3659.1
2.5°	3673.6	3681.6	3675.2	3673.6	3671.9	3671.9	3671.9	3673.6	3680.0	3684.8	3681.6
5°	3720.1	3726.5	3723.3	3721.7	3720.1	3721.7	3718.5	3716.8	3721.7	3721.7	3720.1
7.5°	3777.8	3785.8	3782.6	3785.8	3787.4	3789.0	3781.0	3774.6	3773.0	3777.8	3774.6
10°	3856.3	3862.8	3864.4	3866.0	3869.2	3867.6	3858.0	3846.7	3845.1	3843.5	3841.9
12.5°	3944.5	3949.4	3951.0	3957.4	3962.2	3963.8	3952.6	3942.9	3926.9	3930.1	3923.7
15°	4044.0	4053.6	4052.0	4061.6	4074.4	4077.6	4066.4	4050.4	4035.9	4027.9	4023.1
17.5°	4165.8	4172.2	4169.0	4178.6	4194.7	4202.7	4193.1	4172.2	4157.8	4140.2	4130.5
20°	4310.1	4321.4	4324.6	4324.6	4339.0	4347.0	4332.6	4326.2	4303.7	4290.9	4282.9
22.5°	4473.7	4478.5	4488.1	4497.7	4512.2	4509.0	4504.2	4494.5	4473.7	4462.5	4449.6
25°	4658.1	4662.9	4686.9	4707.8	4712.6	4709.4	4703.0	4698.2	4678.9	4653.3	4643.7
27.5°	4872.9	4882.6	4914.6	4933.9	4933.9	4935.5	4922.7	4938.7	4897.0	4866.5	4863.3
30°	5142.3	5148.7	5176.0	5195.2	5185.6	5177.6	5174.4	5190.4	5145.5	5091.0	5078.2
32.5°	5408.5	5431.0	5455.0	5496.7	5463.0	5448.6	5445.4	5456.6	5405.3	5344.4	5326.7
35°	5693.9	5710.0	5754.9	5790.1	5759.7	5726.0	5740.4	5775.7	5714.8	5633.0	5629.8
37.5°	6009.8	6024.2	6082.0	6118.8	6096.4	6038.7	6062.7	6104.4	6043.5	5942.5	5921.6
40°	6338.5	6369.0	6441.1	6479.6	6442.7	6365.8	6410.7	6455.6	6401.1	6284.0	6237.5
42.5°	6707.3	6755.4	6859.7	6878.9	6808.3	6704.1	6782.7	6854.8	6816.4	6681.7	6664.0
45°	7138.7	7167.5	7295.8	7337.5	7239.7	7109.8	7207.6	7339.1	7310.2	7154.7	7121.0
47.5°	7621.3	7648.6	7781.6	7844.2	7720.7	7545.9	7722.3	7893.9	7876.3	7709.5	7693.5
50°	8192.1	8198.5	8382.9	8453.5	8330.0	8179.3	8336.4	8549.7	8479.2	8265.9	8262.7
52.5°	8817.5	8825.5	9058.0	9194.3	9125.4	8955.4	9141.4	9271.3	9091.7	8812.7	8791.8
55°	9359.5	9399.5	9717.0	10079.4	10174.0	10050.6	10106.7	10045.7	9603.2	9211.9	9151.0
57.5°	9580.7	9659.3	10142.0	10818.6	11434.4	11617.2	11184.2	10603.8	9806.8	9253.6	9194.3
60°	9040.4	9125.4	9874.2	11158.6	12730.0	13523.7	12306.6	10698.4	9343.4	8565.7	8472.7
62.5°	7239.7	7263.7	8365.3	10358.4	13485.2	15540.8	12779.7	9891.8	7994.9	6938.2	6901.3
64°	5209.7	5456.6	6623.9	9082.1	13154.9	16308.9	12507.1	8761.4	6494.1	5424.5	5251.4
65°	3896.4	3963.8	5339.6	7756.0	12572.8	16251.2	11977.9	7680.6	5378.0	4151.4	3959.0
67.5°	1472.0	1480.0	1970.7	3866.0	8950.6	13982.3	9141.4	4178.6	2265.7	1638.7	1579.4
70°	610.9	622.1	723.2	1300.4	3846.7	8977.8	4407.9	1507.3	829.0	671.9	662.2
72.5°	447.4	453.8	484.2	577.2	1183.4	3686.4	1449.5	639.8	485.9	434.5	429.7
75°	351.2	354.4	376.8	424.9	551.6	1021.4	602.9	439.4	370.4	333.5	330.3
77.5°	267.8	275.8	291.8	323.9	370.4	484.2	399.3	328.7	285.4	255.0	250.1
80°	184.4	194.0	224.5	237.3	248.5	314.3	272.6	248.5	222.9	186.0	174.8
82.5°	113.8	120.3	150.7	162.0	157.1	176.4	174.8	178.0	158.7	115.4	107.4
85°	59.3	62.5	81.8	85.0	78.6	72.2	89.8	104.2	97.8	65.7	64.1
87.5°	12.8	14.4	17.6	16.0	17.6	17.6	22.4	33.7	35.3	22.4	20.8
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)