

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: P455787

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455787
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-SA7A-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30425 lumens
Efficiency: N/A
Efficacy: 141.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

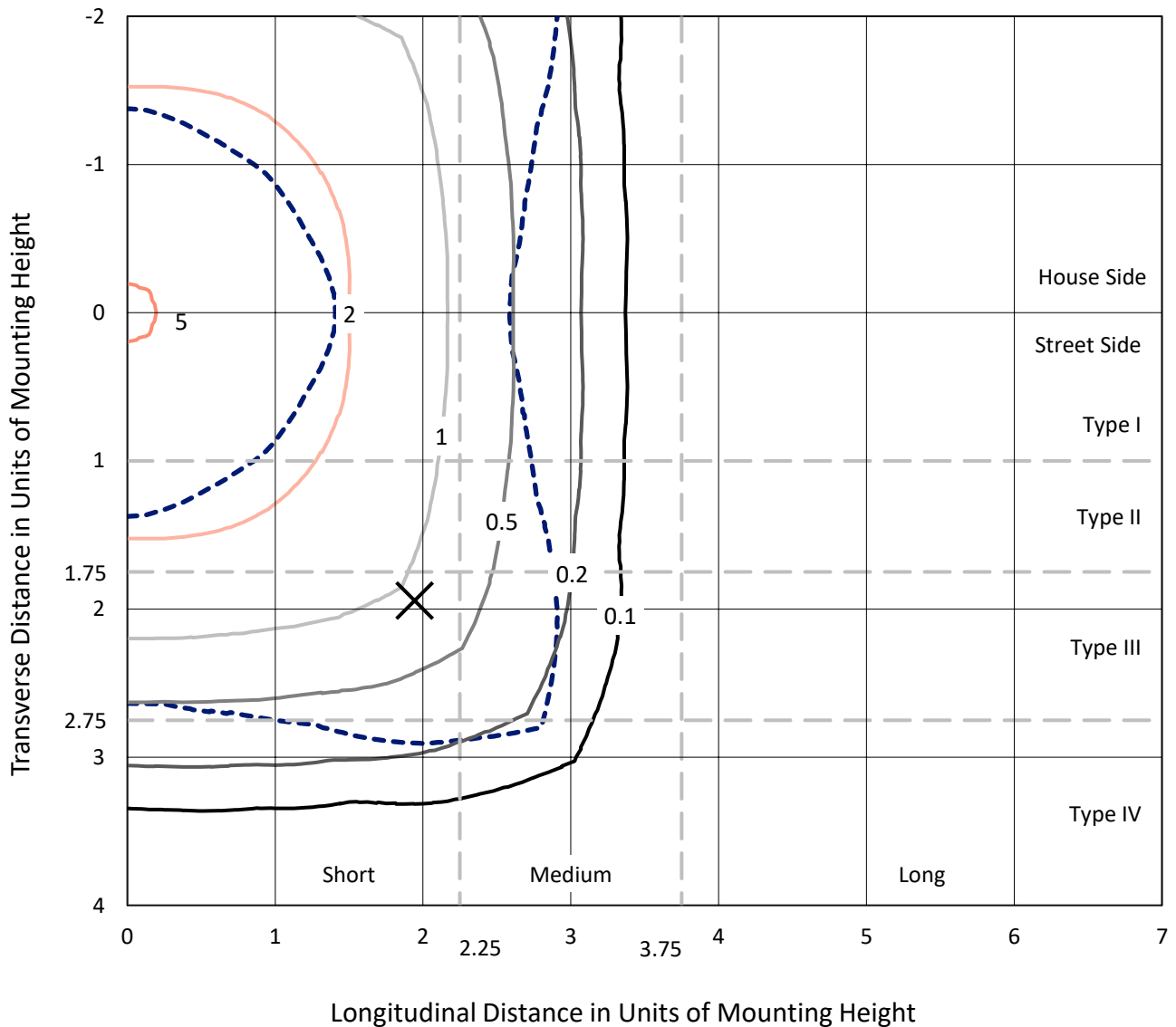
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

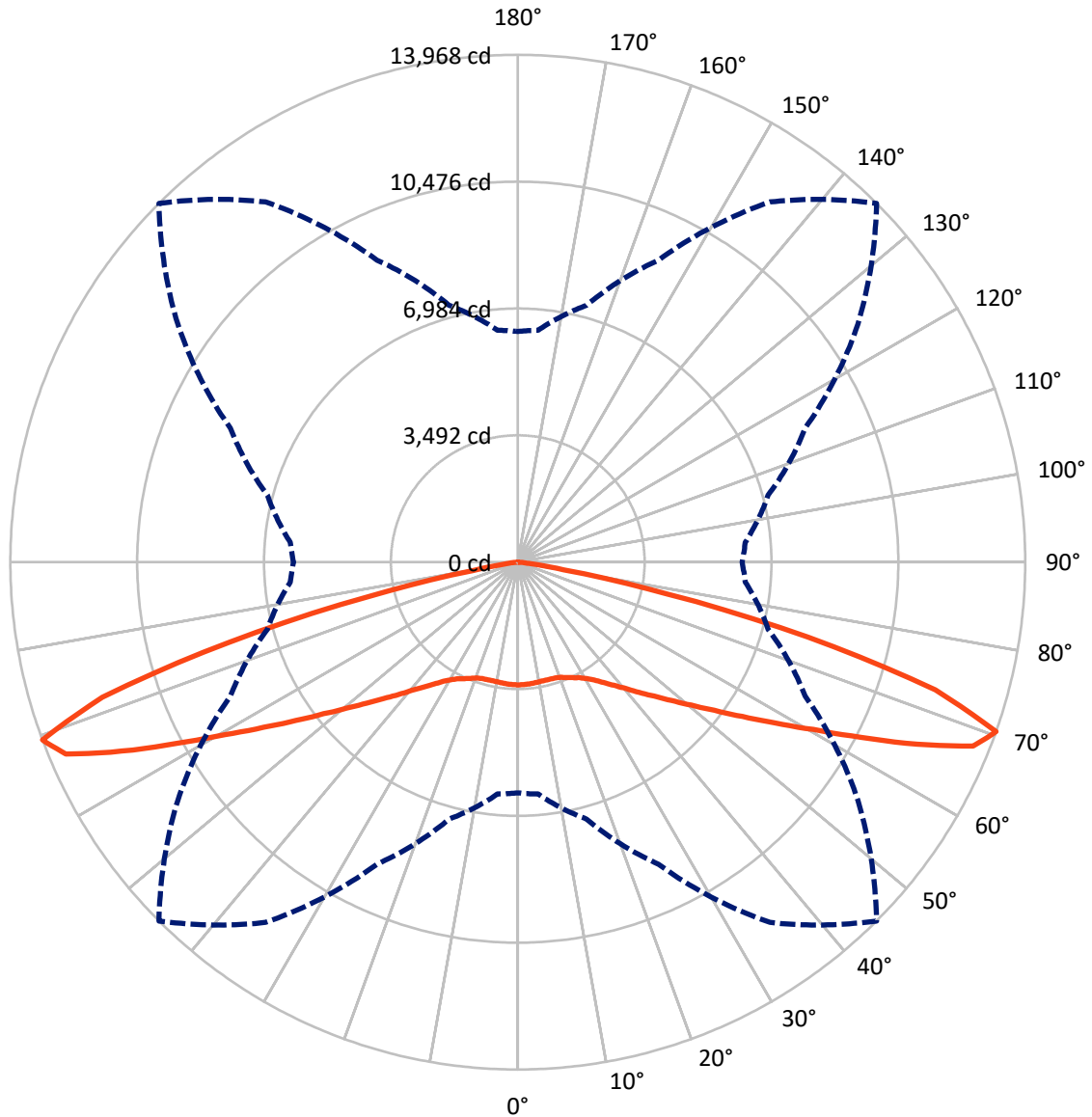
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	15212.5	0.0	15212.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15212.5	0.0	15212.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	30425.0	0.0	30425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.4	1.1
10°-20°	940.2	3.1
20°-30°	1607.9	5.3
30°-40°	2552.1	8.4
40°-50°	4117.3	13.5
50°-60°	6698.9	22.0
60°-70°	9711.0	31.9
70°-80°	4307.4	14.2
80°-90°	169.9	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°	30425.0	100.0
0°-180°	30425.0	100.0

Coefficient of Utilization



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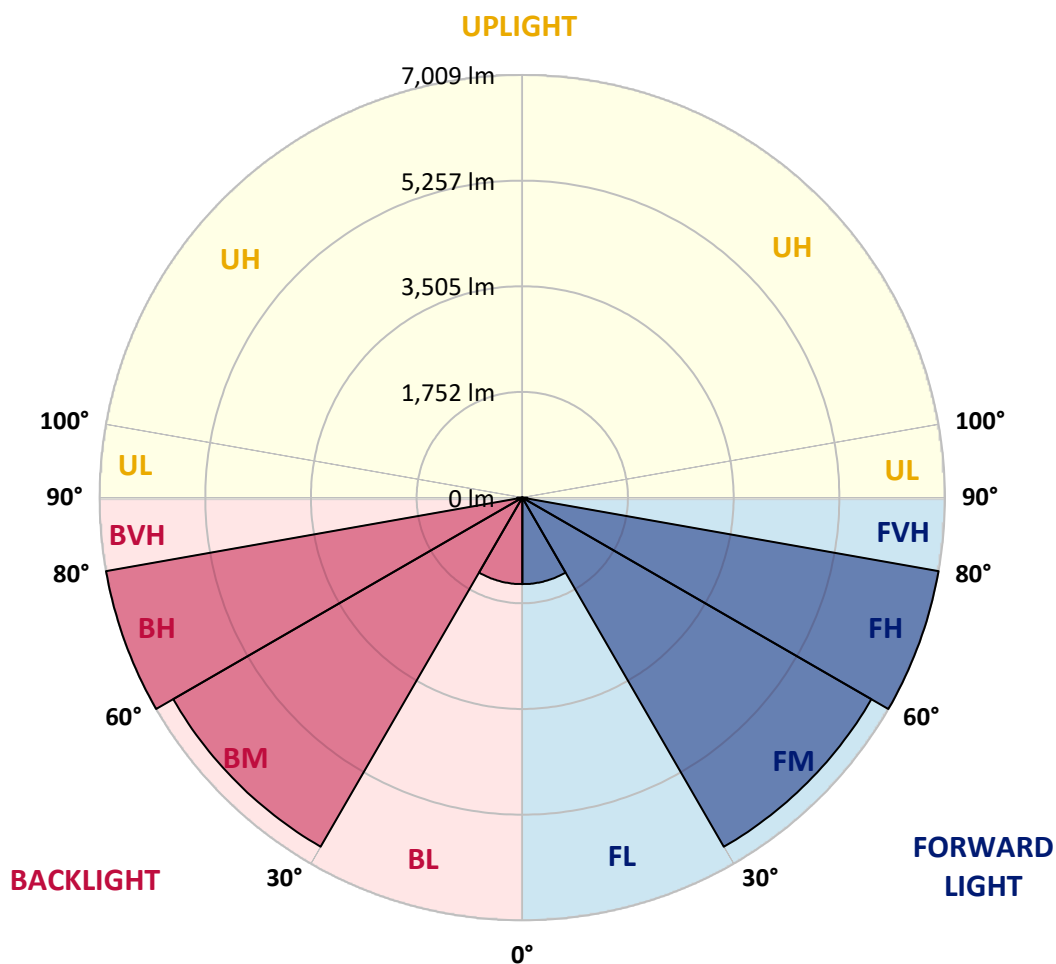
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1434.2	4.7			
FM (30°-60°)	6684.1	22.0			
FH (60°-80°)	7009.2	23.0			G3/7500
FVH (80°-90°)	85.0	0.3			G1/100
BL (0°-30°)	1434.2	4.7	B3/2500		
BM (30°-60°)	6684.1	22.0	B4/8500		
BH (60°-80°)	7009.2	23.0	B5		G3/7500
BVH (80°-90°)	85.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6	3378.6
2.5°	3378.6	3381.8	3376.9	3373.7	3372.1	3372.1	3370.5	3372.1	3381.8	3383.4	3378.6
5°	3368.9	3372.1	3370.5	3367.3	3365.7	3365.7	3364.1	3362.5	3370.5	3373.7	3372.1
7.5°	3356.1	3357.7	3356.1	3354.5	3356.1	3354.5	3349.7	3346.5	3352.9	3352.9	3351.3
10°	3333.7	3336.9	3335.3	3336.9	3340.1	3340.1	3333.7	3327.2	3328.8	3325.6	3325.6
12.5°	3306.4	3311.2	3312.8	3319.2	3327.2	3336.9	3322.4	3308.0	3304.8	3303.2	3301.6
15°	3288.8	3293.6	3300.0	3306.4	3320.8	3341.7	3320.8	3298.4	3292.0	3285.6	3282.3
17.5°	3283.9	3290.4	3300.0	3309.6	3328.8	3349.7	3332.1	3309.6	3293.6	3283.9	3280.7
20°	3296.8	3301.6	3316.0	3333.7	3360.9	3381.8	3364.1	3340.1	3316.0	3301.6	3296.8
22.5°	3322.4	3330.4	3348.1	3380.2	3418.6	3449.1	3425.1	3385.0	3346.5	3327.2	3320.8
25°	3378.6	3385.0	3405.8	3449.1	3494.0	3522.9	3497.2	3450.7	3397.8	3372.1	3364.1
27.5°	3463.5	3473.2	3495.6	3546.9	3583.8	3599.8	3582.2	3550.1	3511.6	3484.4	3478.0
30°	3583.8	3595.0	3628.7	3683.2	3707.3	3716.9	3708.9	3688.0	3660.8	3631.9	3625.5
32.5°	3745.8	3752.2	3790.6	3842.0	3864.4	3867.6	3858.0	3848.4	3803.5	3755.4	3752.2
35°	3926.9	3938.2	3984.7	4045.6	4066.4	4068.1	4048.8	4034.4	3981.5	3943.0	3943.0
37.5°	4167.5	4172.3	4217.2	4286.1	4308.6	4302.2	4292.5	4279.7	4223.6	4173.9	4175.5
40°	4449.7	4459.3	4497.8	4578.0	4578.0	4569.9	4576.4	4566.7	4510.6	4462.5	4464.1
42.5°	4784.8	4789.6	4836.1	4921.1	4914.7	4898.7	4905.1	4892.2	4857.0	4802.5	4783.2
45°	5142.4	5161.6	5241.8	5323.6	5310.8	5259.4	5285.1	5281.9	5249.8	5168.0	5172.9
47.5°	5573.7	5605.8	5682.8	5780.6	5766.1	5686.0	5714.8	5734.1	5689.2	5599.4	5583.4
50°	6059.6	6080.4	6194.3	6285.7	6272.9	6187.9	6253.6	6256.8	6144.6	6017.9	6017.9
52.5°	6577.5	6598.4	6752.3	6895.0	6903.0	6779.6	6832.5	6829.3	6646.5	6479.7	6447.6
55°	7158.0	7167.6	7366.4	7576.5	7621.4	7501.1	7507.5	7443.4	7206.1	7012.1	6994.4
57.5°	7757.7	7793.0	8012.6	8285.2	8418.3	8344.6	8310.9	8139.3	7910.0	7687.1	7675.9
60°	8421.5	8423.1	8708.6	9030.9	9300.2	9349.9	9212.0	8982.7	8686.1	8391.1	8378.2
62.5°	8881.7	8950.7	9311.5	9856.7	10339.3	10618.3	10254.3	9773.3	9189.6	8713.4	8665.3
65°	8976.3	9022.8	9572.8	10496.4	11482.6	12083.9	11242.1	10219.0	9223.3	8588.3	8556.2
67.5°	8211.5	8261.2	9002.0	10419.5	12284.3	13517.4	11883.5	10004.2	8652.4	7866.7	7804.2
70°	6351.4	6407.5	7323.1	9172.0	12106.3	13968.0	11426.5	8726.2	7135.5	6287.3	6173.4
72.5°	3376.9	3583.8	4366.3	6295.3	9826.2	12026.2	9369.2	6367.5	4602.0	3761.8	3611.1
75°	1233.1	1258.7	1694.9	2791.7	5716.4	8246.7	5936.1	3037.0	1746.2	1348.5	1279.6
77.5°	509.9	508.3	558.0	843.4	2076.5	4223.6	2317.0	891.5	556.4	514.7	508.3
80°	301.5	301.5	331.9	351.2	546.8	1274.8	610.9	397.7	333.5	304.7	309.5
82.5°	134.7	142.7	210.1	221.3	264.6	349.6	295.0	253.4	218.1	150.7	136.3
85°	73.8	64.1	110.6	115.5	126.7	129.9	139.5	137.9	126.7	73.8	75.4
87.5°	14.4	17.6	32.1	24.1	27.3	24.1	32.1	44.9	46.5	25.7	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)