

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: P650833

Luminaire Tested: **GALN-SA4C-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650833
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-SA4C-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24410 lumens
Efficiency: N/A
Efficacy: 114.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

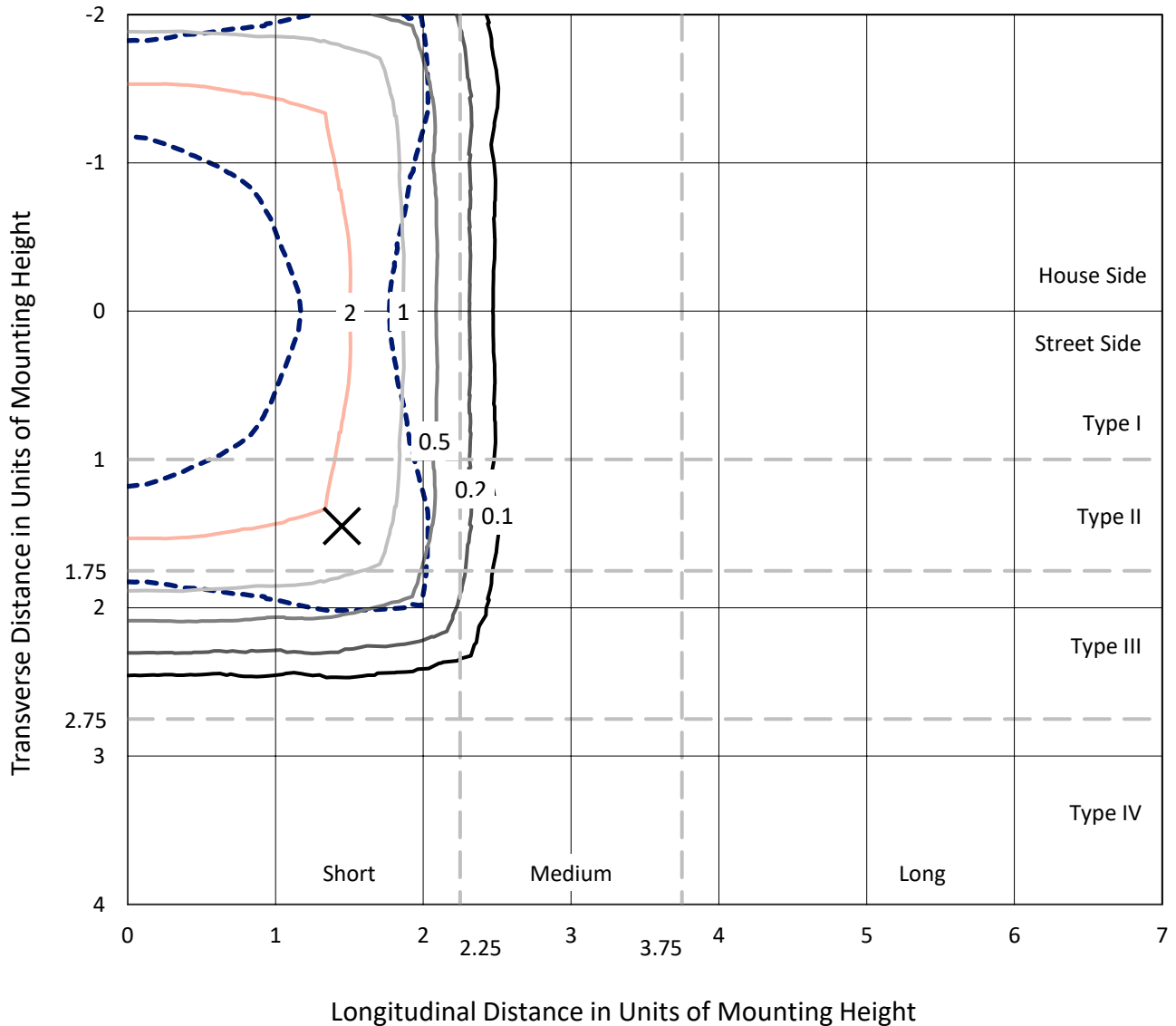
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

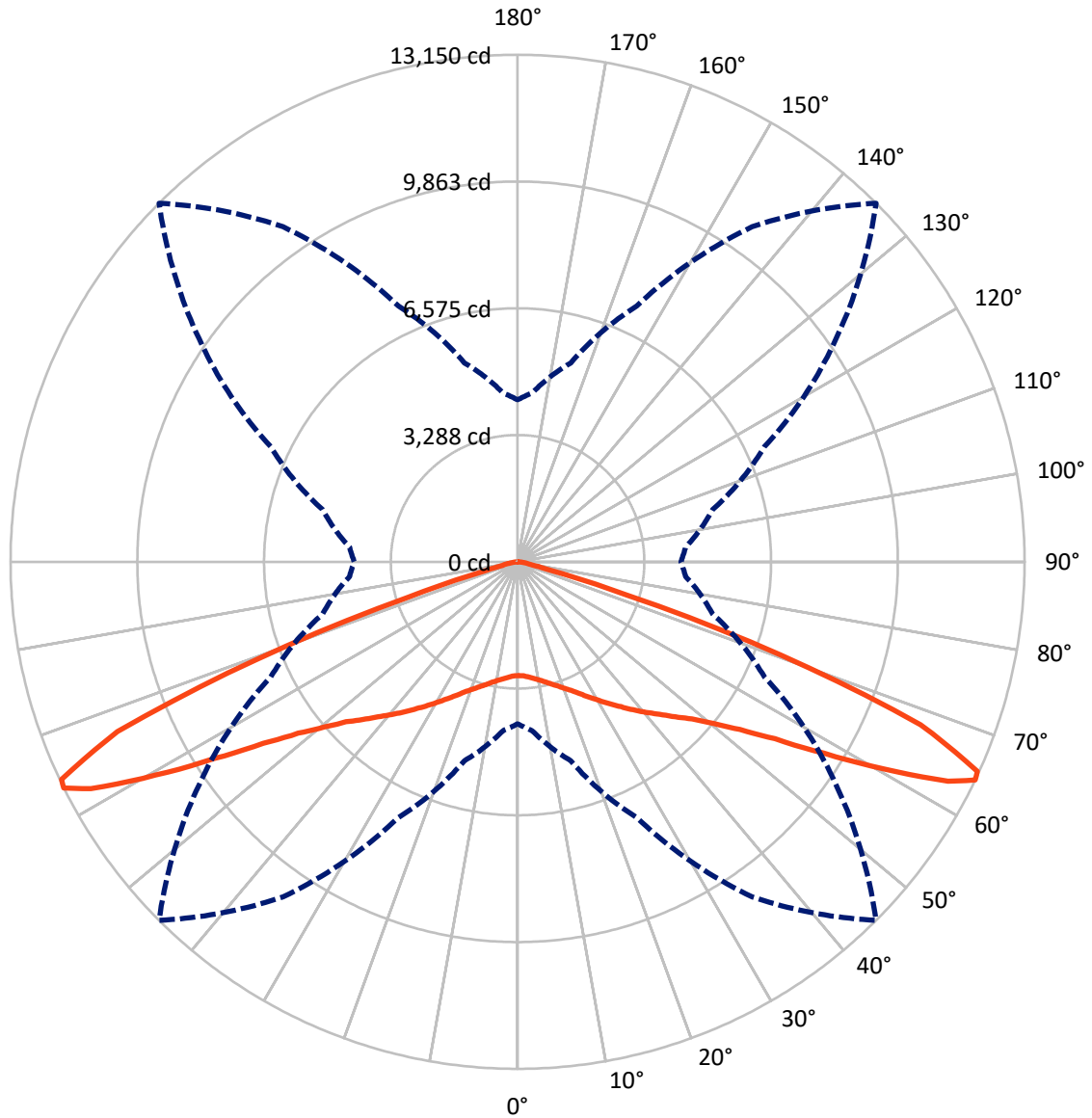
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - N/A

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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	12205.0	0.0	12205.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12205.0	0.0	12205.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	24410.0	0.0	24410.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.9	1.2
10°-20°	935.0	3.8
20°-30°	1766.8	7.2
30°-40°	2926.0	12.0
40°-50°	4568.0	18.7
50°-60°	7062.1	28.9
60°-70°	6089.5	24.9
70°-80°	690.1	2.8
80°-90°	82.7	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°	24410.0	100.0
0°-180°	24410.0	100.0

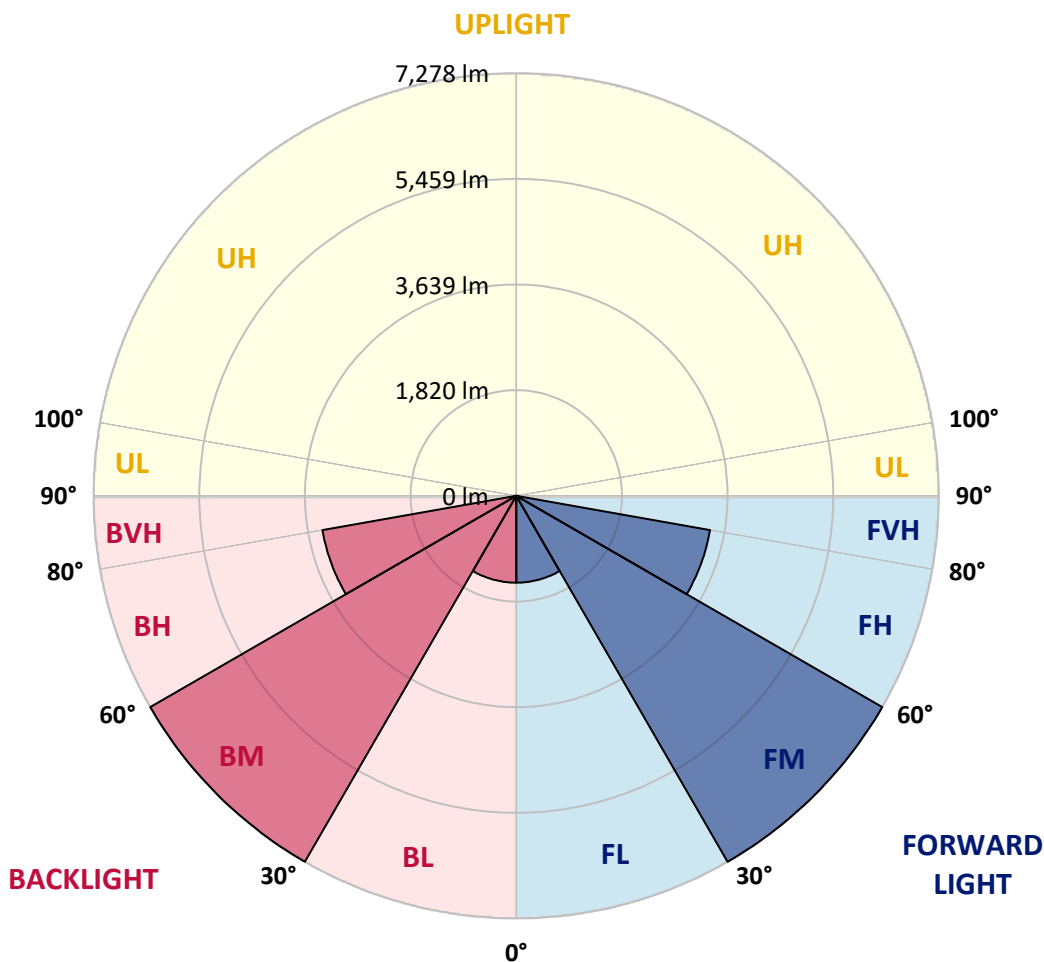


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1495.8	6.1			
FM (30°-60°)	7278.1	29.8			
FH (60°-80°)	3389.8	13.9			G2/5000
FVH (80°-90°)	41.3	0.2			G1/100
BL (0°-30°)	1495.8	6.1	B3/2500		
BM (30°-60°)	7278.1	29.8	B4/8500		
BH (60°-80°)	3389.8	13.9	B4/5000		G2/5000
BVH (80°-90°)	41.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4	2950.4
2.5°	2962.0	2968.5	2963.3	2962.0	2960.7	2960.7	2960.7	2962.0	2967.1	2971.1	2968.5
5°	2999.5	3004.6	3002.1	3000.8	2999.5	3000.8	2998.2	2996.9	3000.8	3000.8	2999.5
7.5°	3046.0	3052.5	3049.9	3052.5	3053.8	3055.1	3048.6	3043.4	3042.1	3046.0	3043.4
10°	3109.3	3114.6	3115.8	3117.2	3119.7	3118.4	3110.7	3101.6	3100.3	3099.1	3097.7
12.5°	3180.5	3184.4	3185.7	3190.8	3194.7	3196.0	3187.0	3179.2	3166.3	3168.9	3163.7
15°	3260.6	3268.4	3267.1	3274.9	3285.2	3287.8	3278.7	3265.9	3254.2	3247.7	3243.8
17.5°	3359.0	3364.1	3361.5	3369.3	3382.2	3388.6	3380.9	3364.1	3352.5	3338.3	3330.4
20°	3475.3	3484.3	3486.9	3486.9	3498.6	3505.0	3493.3	3488.2	3470.1	3459.8	3453.3
22.5°	3607.1	3611.0	3618.8	3626.6	3638.2	3635.6	3631.7	3624.0	3607.1	3598.1	3587.8
25°	3755.8	3759.7	3779.1	3795.9	3799.8	3797.2	3792.1	3788.1	3772.6	3752.0	3744.2
27.5°	3929.1	3936.8	3962.7	3978.2	3978.2	3979.5	3969.2	3982.1	3948.5	3923.9	3921.3
30°	4146.3	4151.4	4173.5	4188.9	4181.2	4174.7	4172.1	4185.1	4148.9	4104.9	4094.6
32.5°	4360.9	4379.0	4398.4	4432.0	4404.8	4393.2	4390.6	4399.7	4358.3	4309.2	4295.0
35°	4591.0	4604.0	4640.1	4668.6	4644.0	4616.9	4628.5	4657.0	4607.8	4541.9	4539.3
37.5°	4845.8	4857.4	4903.9	4933.6	4915.6	4869.0	4888.4	4922.0	4872.9	4791.4	4774.6
40°	5110.8	5135.3	5193.5	5224.5	5194.8	5132.8	5169.0	5205.1	5161.2	5066.8	5029.3
42.5°	5408.1	5446.9	5530.9	5546.5	5489.6	5405.5	5468.9	5527.1	5496.0	5387.4	5373.2
45°	5755.9	5779.2	5882.6	5916.3	5837.4	5732.7	5811.5	5917.5	5894.2	5768.8	5741.7
47.5°	6145.1	6167.1	6274.4	6324.8	6225.3	6084.3	6226.5	6364.9	6350.6	6216.2	6203.3
50°	6605.4	6610.5	6759.2	6816.1	6716.6	6595.0	6721.7	6893.7	6836.7	6664.8	6662.2
52.5°	7109.6	7116.0	7303.5	7413.4	7357.8	7220.7	7370.7	7475.5	7330.7	7105.7	7088.9
55°	7546.5	7578.9	7834.8	8127.1	8203.4	8103.8	8149.0	8099.9	7743.1	7427.6	7378.5
57.5°	7725.0	7788.3	8177.5	8723.1	9219.5	9367.0	9017.9	8549.9	7907.3	7461.3	7413.4
60°	7289.3	7357.8	7961.6	8997.2	10264.2	10904.2	9922.9	8626.1	7533.7	6906.6	6831.6
62.5°	5837.4	5856.7	6745.0	8352.1	10873.1	12530.6	10304.3	7975.8	6446.3	5594.3	5564.6
64°	4200.5	4399.7	5340.9	7322.9	10606.9	13150.0	10084.5	7064.3	5236.2	4373.8	4234.2
65°	3141.7	3196.0	4305.3	6253.7	10137.5	13103.4	9657.9	6193.0	4336.4	3347.3	3192.1
67.5°	1186.9	1193.3	1589.0	3117.2	7216.9	11273.9	7370.7	3369.3	1826.8	1321.3	1273.5
70°	492.6	501.7	583.1	1048.6	3101.6	7238.8	3554.2	1215.3	668.4	541.7	534.0
72.5°	360.7	365.9	390.5	465.4	954.1	2972.3	1168.7	515.9	391.7	350.4	346.5
75°	283.2	285.7	303.9	342.6	444.7	823.6	486.1	354.2	298.6	269.0	266.3
77.5°	215.9	222.4	235.3	261.1	298.6	390.5	321.9	265.1	230.1	205.5	201.7
80°	148.7	156.4	181.0	191.3	200.4	253.4	219.8	200.4	179.7	150.0	141.0
82.5°	91.8	97.0	121.5	130.6	126.7	142.2	141.0	143.5	128.0	93.1	86.6
85°	47.9	50.5	65.9	68.5	63.3	58.2	72.4	84.0	78.9	53.0	51.7
87.5°	10.3	11.6	14.2	13.0	14.2	14.2	18.1	27.2	28.4	18.1	16.8
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)