

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: P647368

Luminaire Tested: **GALN-SA4D-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647368
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-SA4D-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25007.5 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

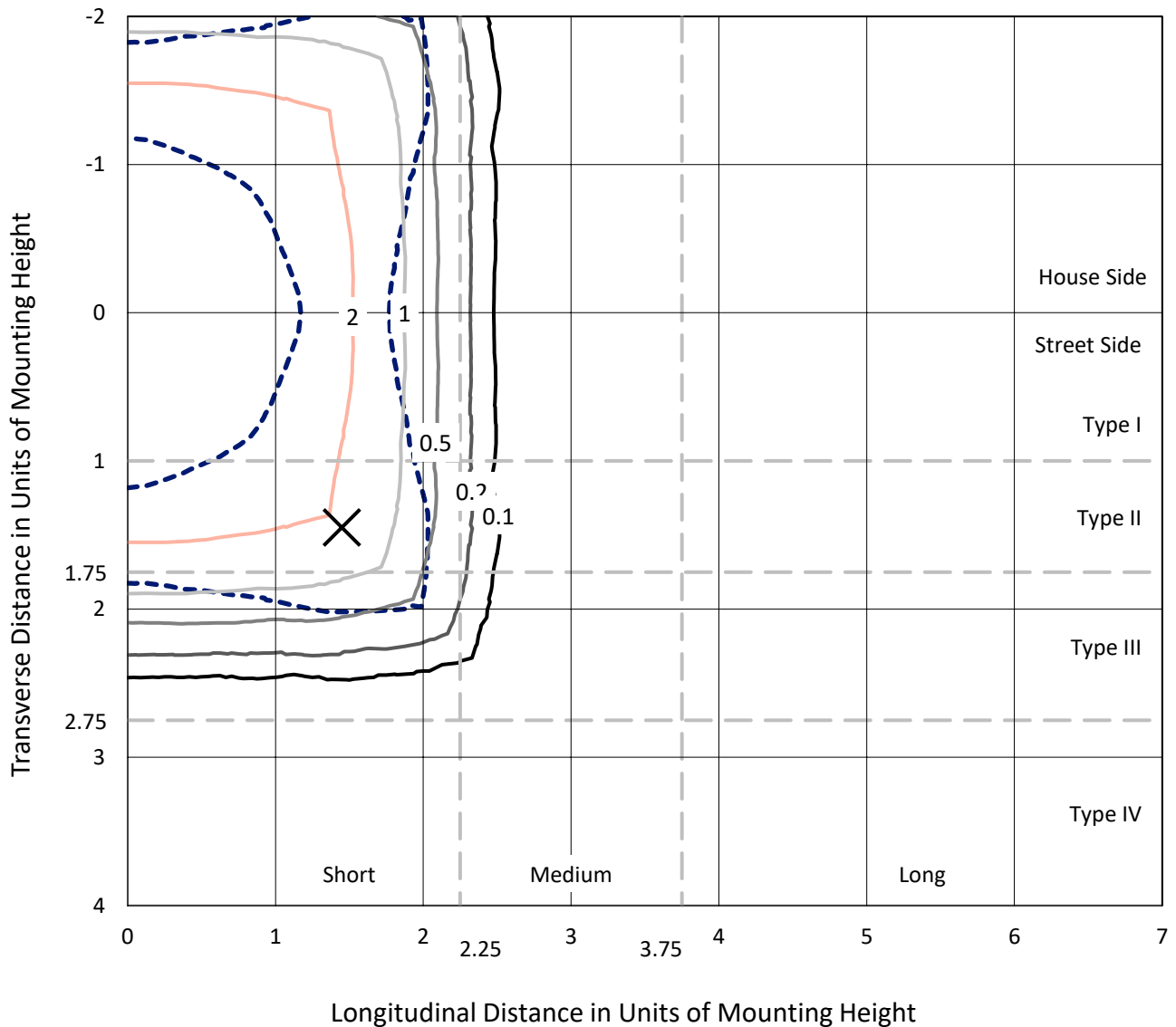
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

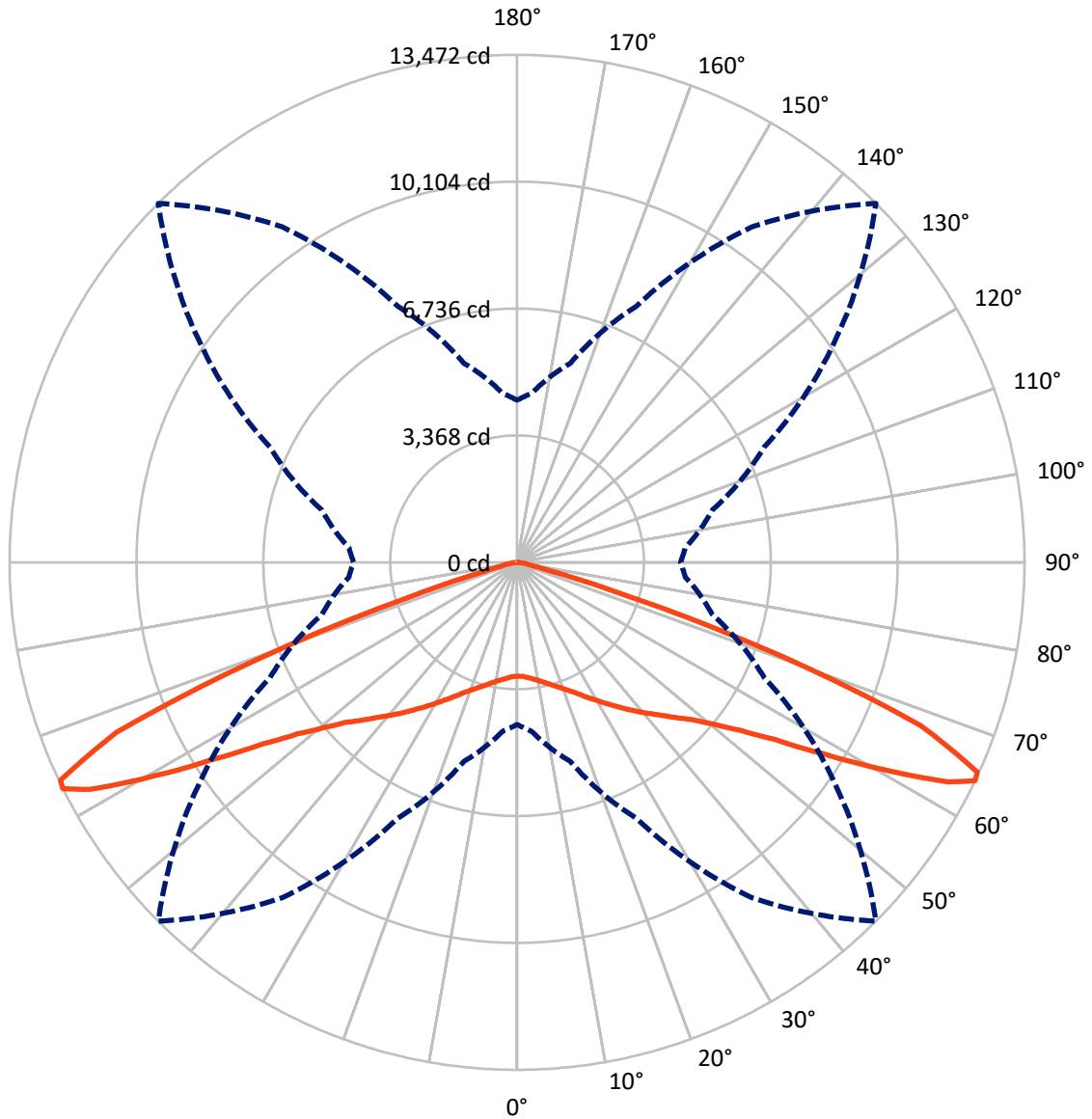
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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	12503.7	0.0	12503.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12503.7	0.0	12503.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	25007.5	0.0	25007.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.0	1.2
10°-20°	957.8	3.8
20°-30°	1810.1	7.2
30°-40°	2997.7	12.0
40°-50°	4679.8	18.7
50°-60°	7234.9	28.9
60°-70°	6238.6	24.9
70°-80°	707.0	2.8
80°-90°	84.7	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°	25007.5	100.0
0°-180°	25007.5	100.0

Coefficient of Utilization

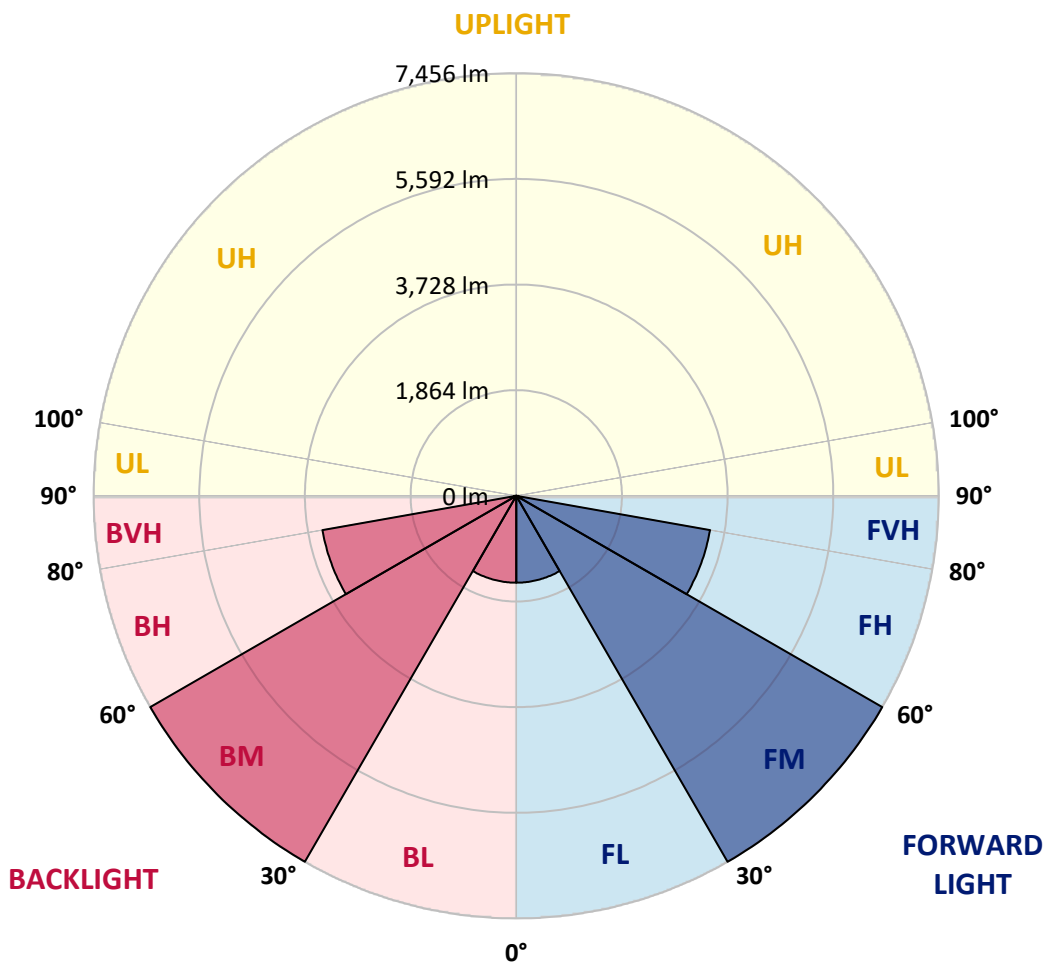


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1532.4	6.1			
FM (30°-60°)	7456.2	29.8			
FH (60°-80°)	3472.8	13.9			G2/5000
FVH (80°-90°)	42.4	0.2			G1/100
BL (0°-30°)	1532.4	6.1	B3/2500		
BM (30°-60°)	7456.2	29.8	B4/8500		
BH (60°-80°)	3472.8	13.9	B4/5000		G2/5000
BVH (80°-90°)	42.4	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°	3022.5	3022.5	3022.5	3022.5	3022.5	3022.5	3022.5	3022.5	3022.5	3022.5	3022.5
2.5°	3034.5	3041.1	3035.8	3034.5	3033.2	3033.2	3033.2	3034.5	3039.8	3043.8	3041.1
5°	3072.9	3078.2	3075.5	3074.2	3072.9	3074.2	3071.6	3070.2	3074.2	3074.2	3072.9
7.5°	3120.6	3127.2	3124.6	3127.2	3128.6	3129.9	3123.2	3117.9	3116.6	3120.6	3117.9
10°	3185.5	3190.8	3192.1	3193.5	3196.0	3194.8	3186.8	3177.6	3176.2	3174.9	3173.6
12.5°	3258.4	3262.3	3263.6	3268.9	3272.9	3274.2	3265.0	3257.0	3243.7	3246.4	3241.2
15°	3340.4	3348.4	3347.1	3355.0	3365.6	3368.3	3359.0	3345.8	3333.9	3327.2	3323.2
17.5°	3441.1	3446.5	3443.8	3451.7	3464.9	3471.6	3463.6	3446.5	3434.5	3419.9	3412.0
20°	3560.3	3569.6	3572.3	3572.3	3584.2	3590.8	3578.9	3573.6	3555.1	3544.4	3537.8
22.5°	3695.4	3699.4	3707.3	3715.3	3727.2	3724.6	3720.6	3712.7	3695.4	3686.1	3675.6
25°	3847.7	3851.7	3871.6	3888.8	3892.8	3890.1	3884.9	3880.9	3865.0	3843.7	3835.8
27.5°	4025.2	4033.2	4059.7	4075.6	4075.6	4076.9	4066.3	4079.5	4045.1	4019.9	4017.3
30°	4247.8	4253.0	4275.6	4291.5	4283.6	4276.9	4274.2	4287.5	4250.4	4205.3	4194.8
32.5°	4467.6	4486.2	4506.0	4540.5	4512.7	4500.8	4498.1	4507.3	4465.0	4414.6	4400.1
35°	4703.4	4716.6	4753.7	4782.9	4757.7	4729.9	4741.8	4771.0	4720.6	4653.1	4650.4
37.5°	4964.3	4976.3	5024.0	5054.4	5035.9	4988.2	5008.1	5042.4	4992.2	4908.7	4891.5
40°	5235.8	5261.1	5320.6	5352.4	5322.0	5258.4	5295.4	5332.5	5287.5	5190.8	5152.4
42.5°	5540.5	5580.2	5666.3	5682.2	5624.0	5537.8	5602.8	5662.3	5630.6	5519.3	5504.7
45°	5896.8	5920.7	6026.6	6061.0	5980.2	5873.0	5953.8	6062.4	6038.5	5910.0	5882.2
47.5°	6295.5	6318.0	6428.0	6479.6	6377.6	6233.2	6378.9	6520.7	6506.1	6368.3	6355.1
50°	6767.0	6772.3	6924.6	6982.9	6880.9	6756.4	6886.3	7062.3	7004.1	6827.9	6825.3
52.5°	7283.5	7290.2	7482.3	7594.9	7537.9	7397.5	7551.1	7658.4	7510.1	7279.6	7262.4
55°	7731.3	7764.4	8026.6	8326.0	8404.1	8302.1	8348.5	8298.2	7932.6	7609.4	7559.1
57.5°	7914.0	7978.9	8377.6	8936.6	9445.2	9596.2	9238.6	8759.1	8100.8	7643.9	7594.9
60°	7467.7	7537.9	8156.4	9217.4	10515.5	11171.1	10165.8	8837.3	7718.0	7075.7	6998.8
62.5°	5980.2	6000.1	6910.1	8556.5	11139.3	12837.3	10556.5	8171.0	6604.1	5731.2	5700.8
64°	4303.4	4507.3	5471.6	7502.2	10866.4	13471.7	10331.3	7237.2	5364.3	4480.9	4337.8
65°	3218.6	3274.2	4410.6	6406.7	10385.6	13424.1	9894.2	6344.5	4442.4	3429.2	3270.3
67.5°	1215.9	1222.6	1627.9	3193.5	7393.5	11549.9	7551.1	3451.7	1871.5	1353.7	1304.6
70°	504.6	513.9	597.4	1074.2	3177.6	7416.0	3641.1	1245.0	684.8	555.0	547.0
72.5°	369.6	374.8	400.0	476.8	977.5	3045.1	1197.4	528.5	401.4	358.9	355.0
75°	290.1	292.7	311.2	351.0	455.6	843.8	498.0	362.9	306.0	275.5	272.9
77.5°	221.2	227.9	241.1	267.6	306.0	400.0	329.8	271.5	235.8	210.6	206.6
80°	152.3	160.3	185.4	196.1	205.3	259.6	225.2	205.3	184.1	153.6	144.4
82.5°	94.0	99.4	124.5	133.8	129.8	145.7	144.4	147.0	131.2	95.4	88.7
85°	49.0	51.7	67.6	70.2	64.9	59.6	74.2	86.1	80.8	54.3	53.0
87.5°	10.6	11.9	14.6	13.2	14.6	14.6	18.6	27.8	29.1	18.6	17.2
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)