

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: P651328

Luminaire Tested: **GALN-SA4D-840-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651328
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-840-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 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: 26859.9 lumens
Efficiency: N/A
Efficacy: 109.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

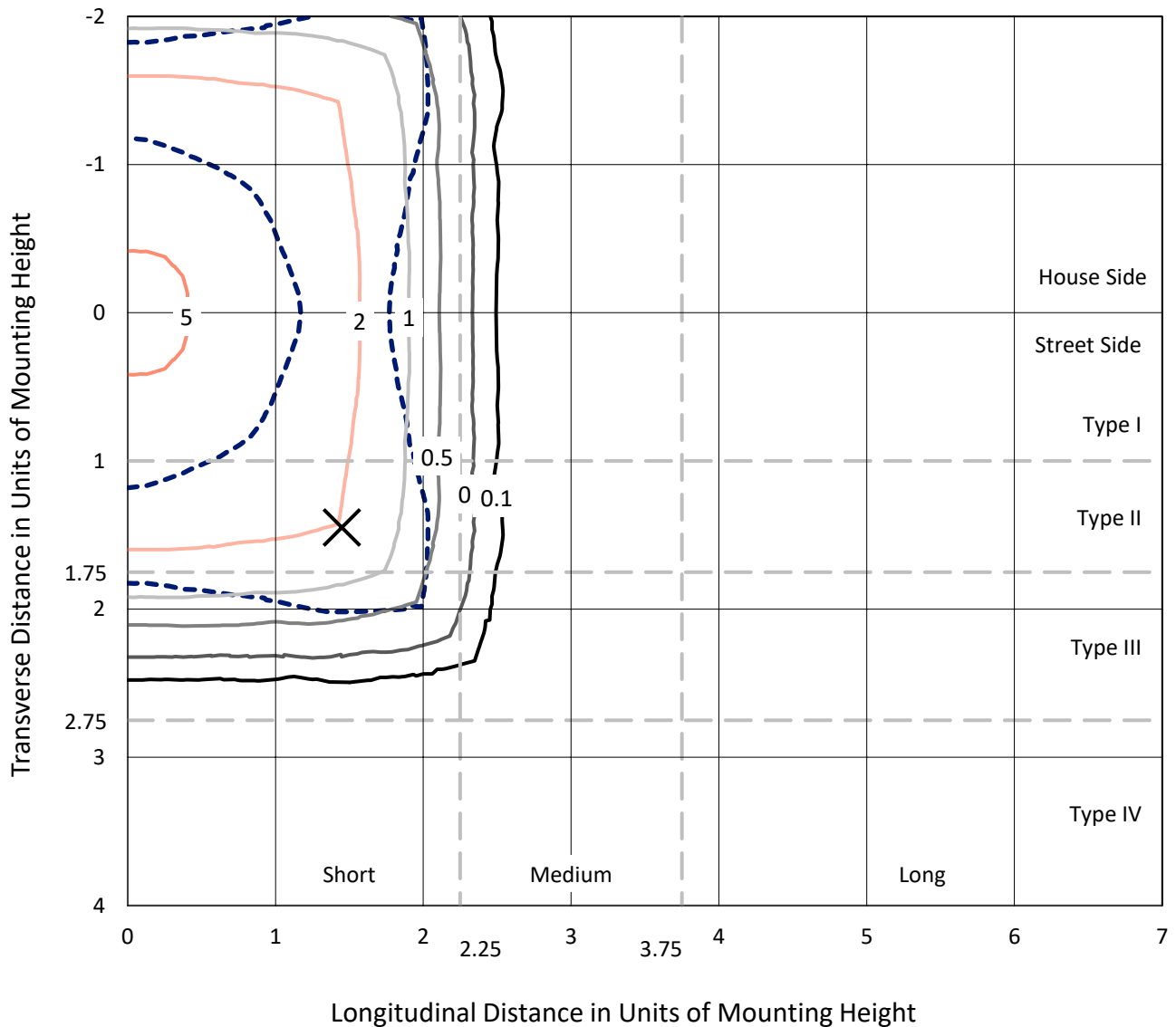
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

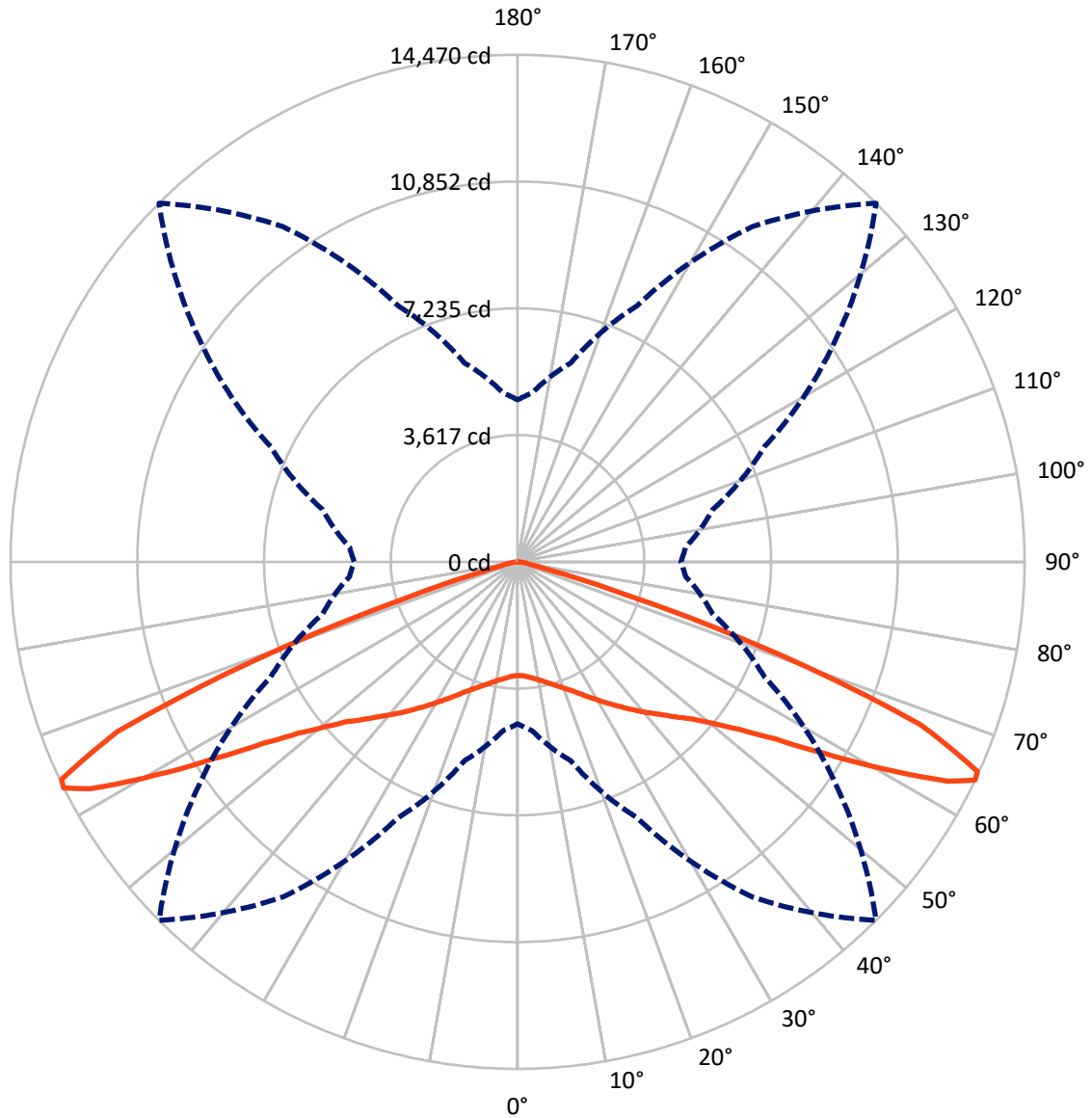
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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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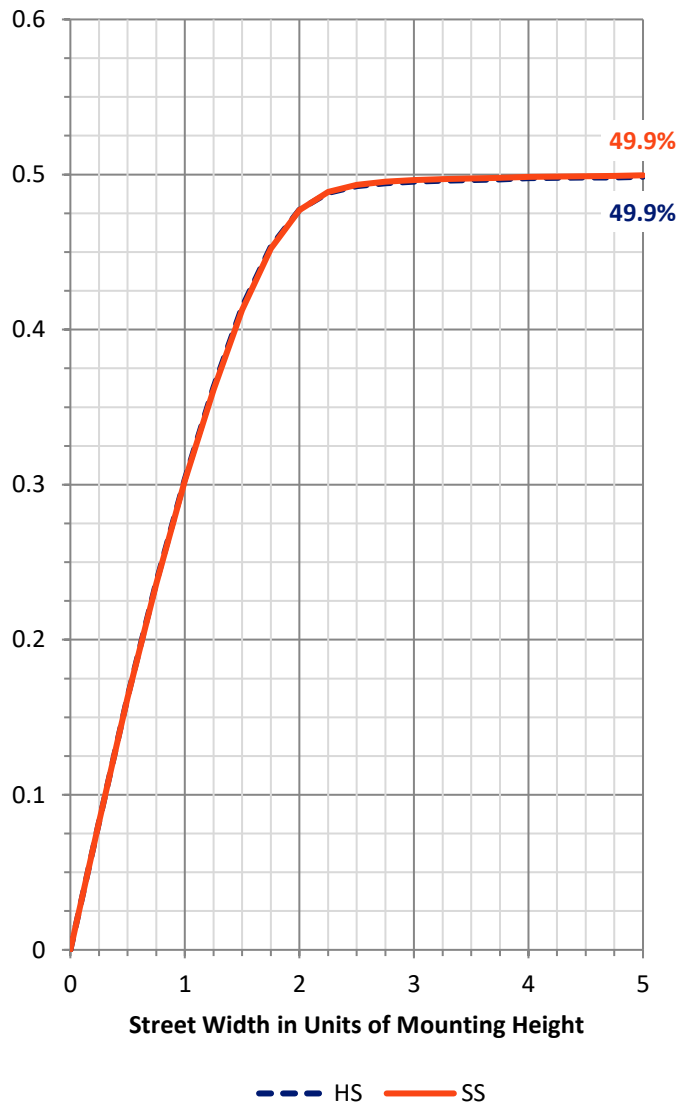
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13429.9	0.0	13429.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13429.9	0.0	13429.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	26859.9	0.0	26859.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.9	1.2
10°-20°	1028.8	3.8
20°-30°	1944.1	7.2
30°-40°	3219.7	12.0
40°-50°	5026.5	18.7
50°-60°	7770.8	28.9
60°-70°	6700.7	24.9
70°-80°	759.4	2.8
80°-90°	91.0	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°	26859.9	100.0
0°-180°	26859.9	100.0

Coefficient of Utilization

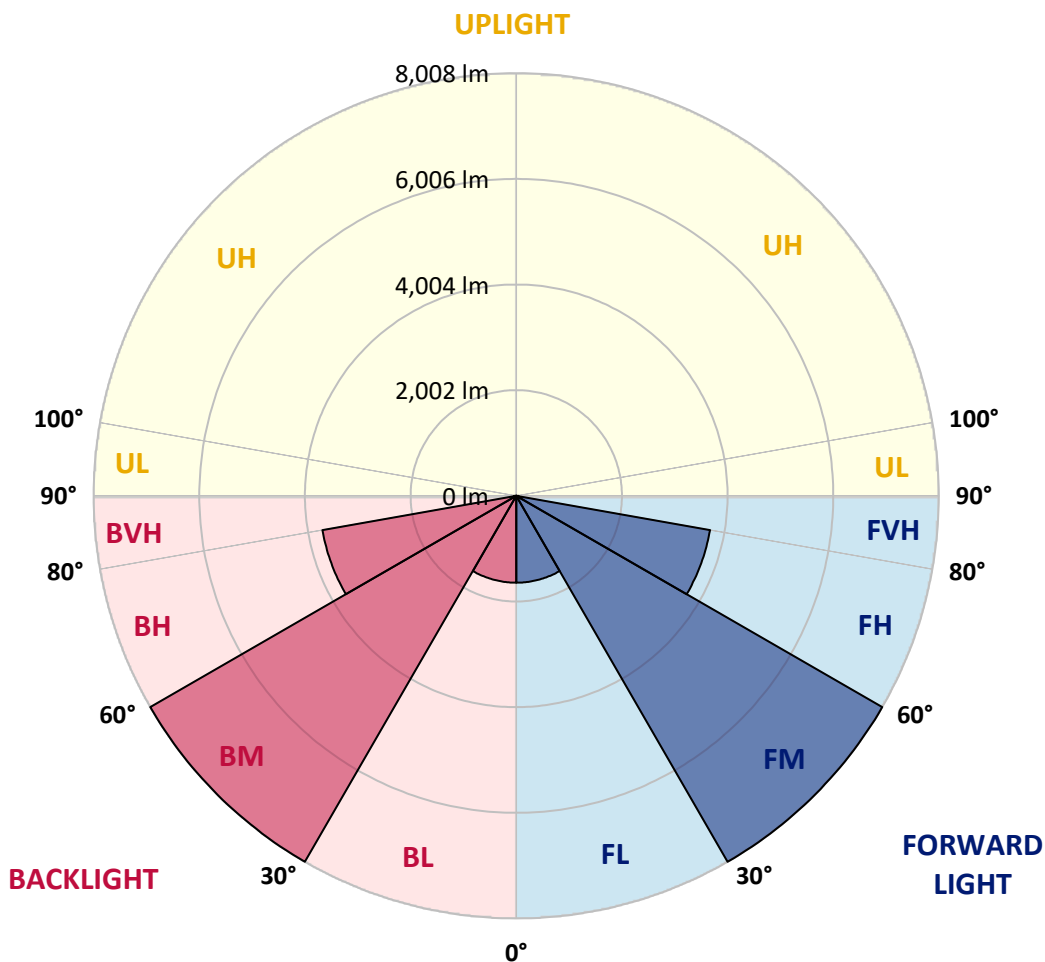


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.9	6.1			
FM (30°-60°)	8008.5	29.8			
FH (60°-80°)	3730.0	13.9			G2/5000
FVH (80°-90°)	45.5	0.2			G1/100
BL (0°-30°)	1645.9	6.1	B3/2500		
BM (30°-60°)	8008.5	29.8	B4/8500		
BH (60°-80°)	3730.0	13.9	B4/5000		G2/5000
BVH (80°-90°)	45.5	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°	3246.4	3246.4	3246.4	3246.4	3246.4	3246.4	3246.4	3246.4	3246.4	3246.4	3246.4
2.5°	3259.3	3266.4	3260.7	3259.3	3257.9	3257.9	3257.9	3259.3	3264.9	3269.2	3266.4
5°	3300.5	3306.2	3303.4	3301.9	3300.5	3301.9	3299.1	3297.6	3301.9	3301.9	3300.5
7.5°	3351.7	3358.9	3356.0	3358.9	3360.3	3361.7	3354.6	3348.9	3347.4	3351.7	3348.9
10°	3421.4	3427.2	3428.6	3430.0	3432.8	3431.4	3422.9	3412.9	3411.5	3410.1	3408.7
12.5°	3499.7	3503.9	3505.4	3511.1	3515.4	3516.7	3506.8	3498.3	3484.0	3486.9	3481.2
15°	3587.9	3596.5	3595.0	3603.5	3615.0	3617.8	3607.8	3593.6	3580.8	3573.7	3569.4
17.5°	3696.0	3701.7	3698.9	3707.4	3721.6	3728.7	3720.2	3701.7	3688.9	3673.2	3664.7
20°	3824.0	3834.0	3836.9	3836.9	3849.7	3856.7	3844.0	3838.3	3818.4	3807.0	3799.9
22.5°	3969.2	3973.5	3982.0	3990.5	4003.3	4000.5	3996.2	3987.7	3969.2	3959.2	3947.8
25°	4132.8	4137.0	4158.4	4176.9	4181.1	4178.3	4172.6	4168.3	4151.3	4128.5	4120.0
27.5°	4323.4	4331.9	4360.4	4377.5	4377.5	4378.9	4367.5	4381.7	4344.8	4317.7	4314.8
30°	4562.4	4568.1	4592.3	4609.4	4600.9	4593.7	4590.9	4605.1	4565.3	4516.8	4505.5
32.5°	4798.6	4818.5	4839.8	4876.8	4846.9	4834.2	4831.3	4841.2	4795.7	4741.6	4726.0
35°	5051.8	5066.0	5105.9	5137.2	5110.1	5080.2	5093.0	5124.4	5070.3	4997.7	4994.9
37.5°	5332.0	5344.9	5396.1	5428.8	5408.9	5357.7	5379.0	5416.0	5362.0	5272.3	5253.8
40°	5623.7	5650.8	5714.8	5748.9	5716.2	5647.9	5687.7	5727.5	5679.2	5575.3	5534.0
42.5°	5950.9	5993.6	6086.1	6103.1	6040.6	5948.1	6017.8	6081.8	6047.6	5928.1	5912.5
45°	6333.6	6359.2	6473.0	6510.0	6423.2	6308.0	6394.8	6511.4	6485.8	6347.8	6317.9
47.5°	6761.8	6786.0	6904.1	6959.5	6850.0	6694.9	6851.5	7003.7	6988.0	6840.0	6825.8
50°	7268.3	7274.0	7437.6	7500.1	7390.6	7256.9	7396.3	7585.5	7522.9	7333.7	7330.8
52.5°	7823.1	7830.2	8036.5	8157.4	8096.2	7945.4	8110.4	8225.7	8066.4	7818.9	7800.4
55°	8303.9	8339.5	8621.2	8942.7	9026.6	8917.1	8966.9	8912.8	8520.2	8173.1	8119.0
57.5°	8500.2	8570.0	8998.2	9598.6	10144.8	10307.0	9923.0	9407.9	8700.9	8210.1	8157.4
60°	8020.9	8096.2	8760.6	9900.2	11294.4	11998.5	10918.8	9491.9	8289.7	7599.8	7517.2
62.5°	6423.2	6444.6	7421.9	9190.3	11964.4	13788.2	11338.4	8776.3	7093.2	6155.8	6123.1
64°	4622.1	4841.2	5876.9	8057.9	11671.3	14469.7	11096.6	7773.3	5761.7	4812.8	4659.1
65°	3457.0	3516.7	4737.4	6881.3	11154.9	14418.4	10627.1	6814.5	4771.5	3683.2	3512.5
67.5°	1306.0	1313.1	1748.4	3430.0	7941.1	12405.4	8110.4	3707.4	2010.2	1453.9	1401.3
70°	542.0	551.9	641.6	1153.8	3412.9	7965.4	3910.8	1337.3	735.5	596.1	587.5
72.5°	397.0	402.6	429.7	512.2	1049.9	3270.6	1286.1	567.7	431.1	385.5	381.3
75°	311.6	314.4	334.3	377.0	489.4	906.3	534.9	389.8	328.7	295.9	293.1
77.5°	237.6	244.7	258.9	287.4	328.7	429.7	354.2	291.7	253.2	226.2	221.9
80°	163.6	172.2	199.1	210.6	220.5	278.9	241.9	220.5	197.7	165.0	155.1
82.5°	101.0	106.7	133.7	143.7	139.4	156.5	155.1	157.9	140.9	102.4	95.3
85°	52.6	55.5	72.6	75.4	69.7	64.0	79.6	92.5	86.8	58.4	56.9
87.5°	11.4	12.8	15.6	14.2	15.6	15.6	19.9	29.9	31.3	19.9	18.5
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)