

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: P648028

Luminaire Tested: **GALN-SA7A-835-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648028
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-835-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 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: 26028.5 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

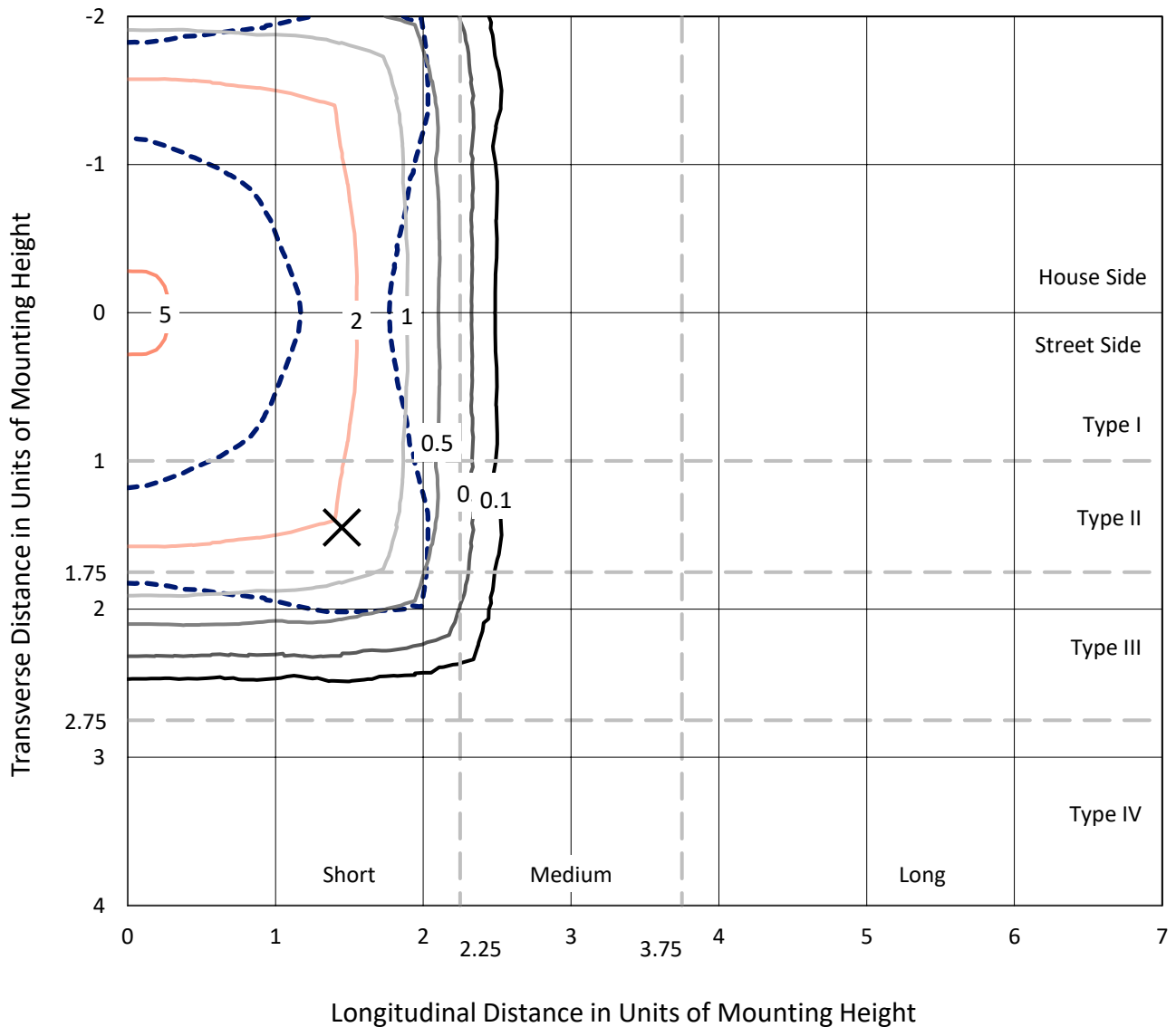
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

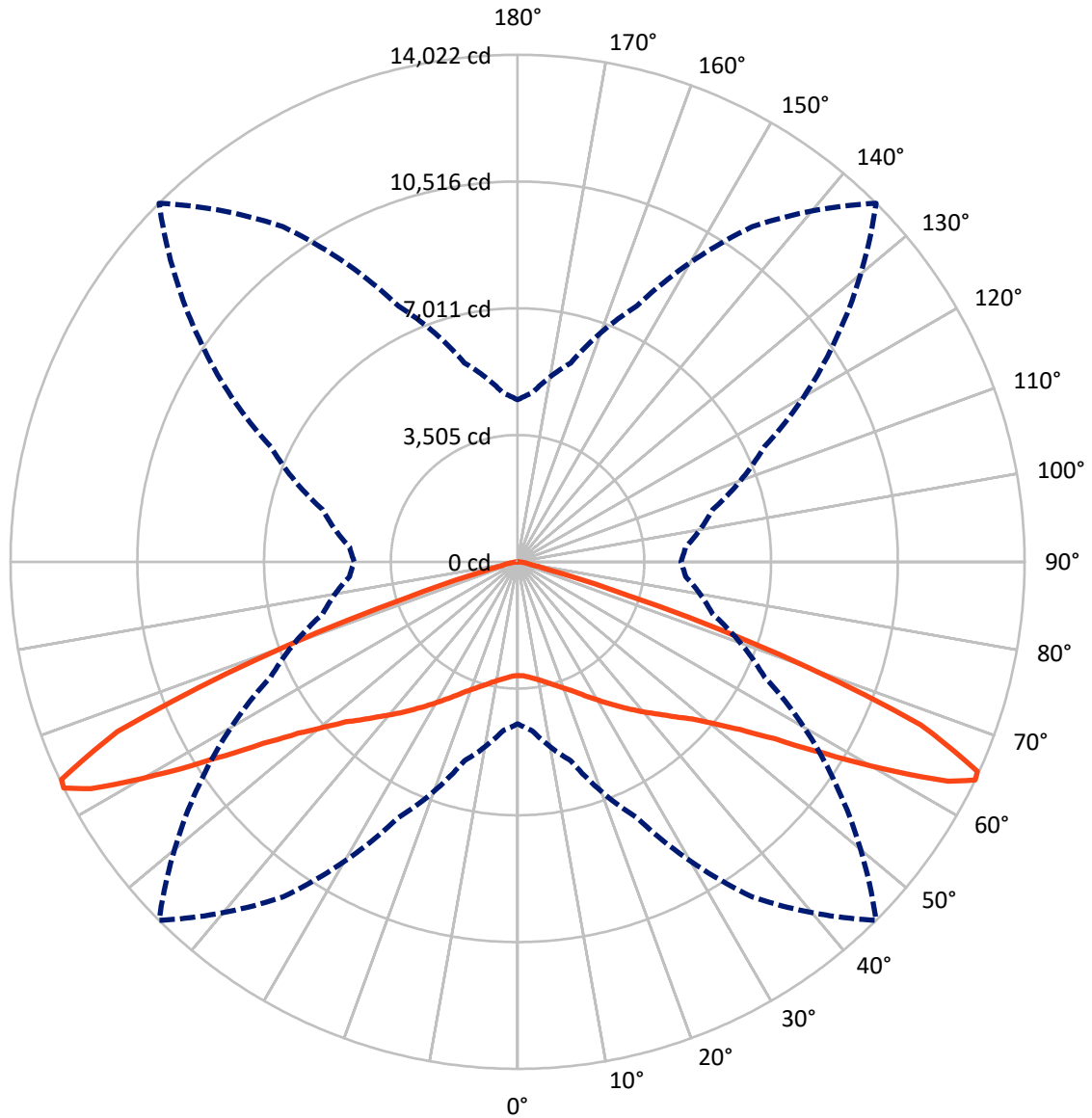
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 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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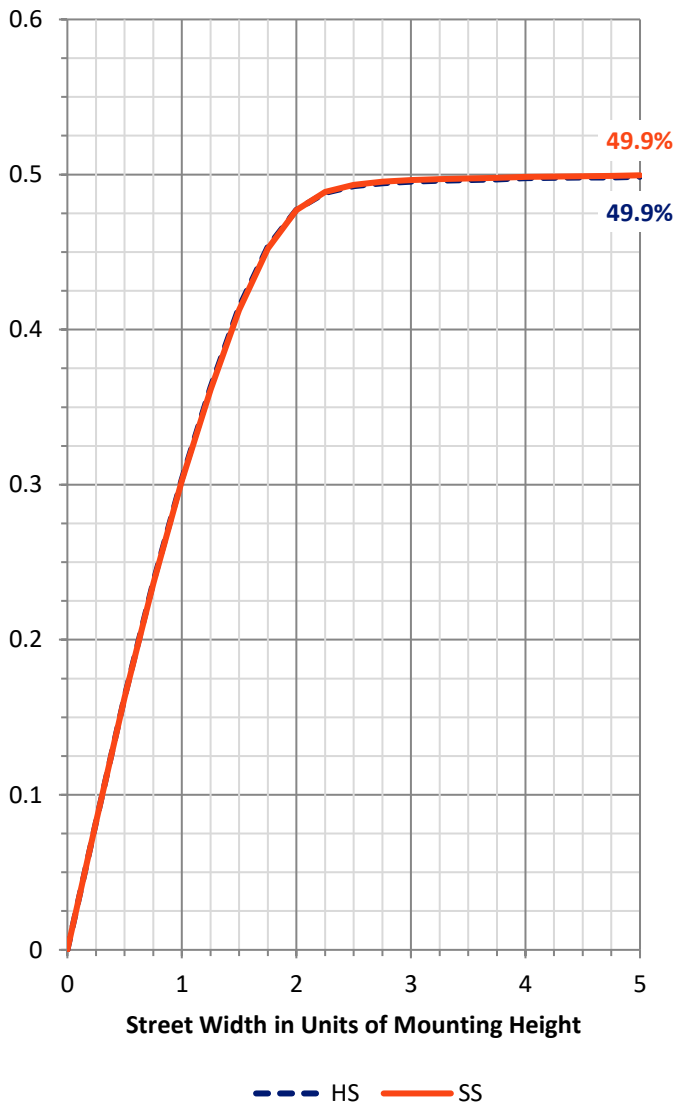
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13014.2	0.0	13014.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13014.2	0.0	13014.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	26028.5	0.0	26028.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.1	1.2
10°-20°	996.9	3.8
20°-30°	1884.0	7.2
30°-40°	3120.0	12.0
40°-50°	4870.9	18.7
50°-60°	7530.3	28.9
60°-70°	6493.3	24.9
70°-80°	735.8	2.8
80°-90°	88.2	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°	26028.5	100.0
0°-180°	26028.5	100.0

Coefficient of Utilization



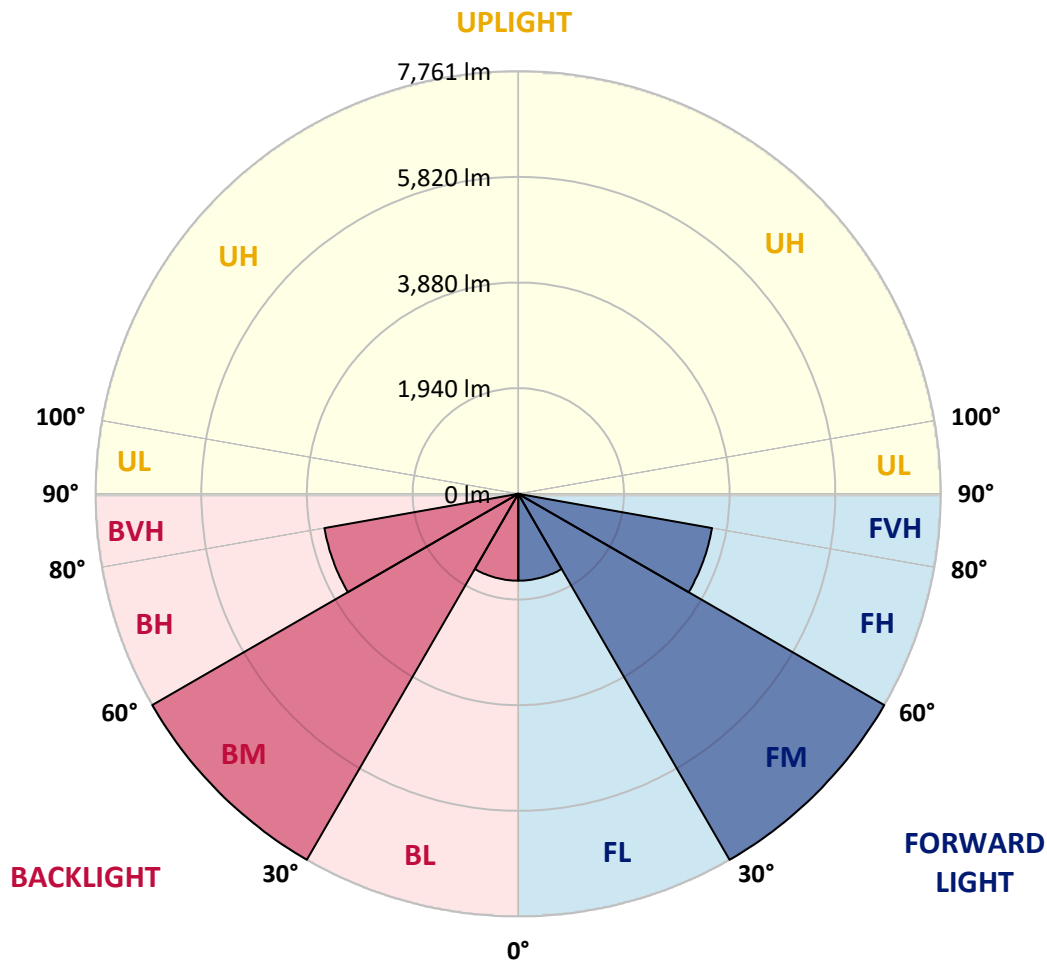
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1595.0	6.1			
FM (30°-60°)	7760.6	29.8			
FH (60°-80°)	3614.6	13.9			G2/5000
FVH (80°-90°)	44.1	0.2			G1/100
BL (0°-30°)	1595.0	6.1	B3/2500		
BM (30°-60°)	7760.6	29.8	B4/8500		
BH (60°-80°)	3614.6	13.9	B4/5000		G2/5000
BVH (80°-90°)	44.1	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°	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0	3146.0
2.5°	3158.4	3165.3	3159.8	3158.4	3157.0	3157.0	3157.0	3158.4	3163.9	3168.0	3165.3
5°	3198.4	3203.9	3201.1	3199.7	3198.4	3199.7	3197.0	3195.6	3199.7	3199.7	3198.4
7.5°	3248.0	3254.9	3252.1	3254.9	3256.3	3257.7	3250.8	3245.2	3243.9	3248.0	3245.2
10°	3315.5	3321.1	3322.4	3323.8	3326.6	3325.2	3316.9	3307.3	3305.9	3304.5	3303.2
12.5°	3391.4	3395.5	3396.9	3402.4	3406.5	3407.9	3398.3	3390.0	3376.2	3379.0	3373.5
15°	3476.8	3485.1	3483.7	3492.0	3503.1	3505.8	3496.2	3482.4	3469.9	3463.1	3458.9
17.5°	3581.6	3587.2	3584.3	3592.6	3606.4	3613.3	3605.1	3587.2	3574.7	3559.6	3551.3
20°	3705.7	3715.3	3718.1	3718.1	3730.5	3737.4	3725.0	3719.5	3700.1	3689.2	3682.3
22.5°	3846.3	3850.5	3858.7	3867.0	3879.4	3876.6	3872.5	3864.3	3846.3	3836.7	3825.7
25°	4004.9	4009.0	4029.6	4047.6	4051.7	4049.0	4043.5	4039.3	4022.7	4000.7	3992.4
27.5°	4189.6	4197.8	4225.5	4242.0	4242.0	4243.3	4232.3	4246.1	4210.3	4184.0	4181.3
30°	4421.2	4426.7	4450.2	4466.7	4458.4	4451.5	4448.8	4462.6	4424.0	4377.0	4366.0
32.5°	4650.0	4669.3	4690.0	4725.9	4696.9	4684.5	4681.7	4691.4	4647.3	4594.9	4579.8
35°	4895.4	4909.3	4947.9	4978.2	4951.9	4923.0	4935.4	4965.7	4913.3	4843.0	4840.3
37.5°	5167.0	5179.4	5229.0	5260.7	5241.5	5191.8	5212.5	5248.4	5196.0	5109.2	5091.2
40°	5449.6	5475.8	5537.8	5571.0	5539.3	5473.1	5511.7	5550.3	5503.4	5402.8	5362.8
42.5°	5766.7	5808.1	5897.7	5914.2	5853.6	5764.0	5831.5	5893.6	5860.4	5744.6	5729.5
45°	6137.5	6162.4	6272.7	6308.5	6224.4	6112.7	6196.8	6309.9	6285.1	6151.3	6122.4
47.5°	6552.5	6575.9	6690.3	6744.1	6638.0	6487.7	6639.4	6786.9	6771.7	6628.3	6614.5
50°	7043.3	7048.8	7207.4	7268.0	7161.9	7032.3	7167.3	7350.7	7290.0	7106.7	7103.9
52.5°	7580.9	7587.8	7787.7	7904.9	7845.7	7699.6	7859.4	7971.1	7816.7	7576.9	7558.9
55°	8046.9	8081.4	8354.4	8665.9	8747.3	8641.1	8689.3	8637.0	8256.5	7920.1	7867.7
57.5°	8237.2	8304.7	8719.7	9301.5	9830.9	9988.0	9615.8	9116.7	8431.6	7955.9	7904.9
60°	7772.6	7845.7	8489.4	9593.7	10944.8	11627.2	10580.8	9198.1	8033.1	7364.5	7284.6
62.5°	6224.4	6245.1	7192.2	8905.8	11594.1	13361.4	10987.5	8504.6	6873.7	5965.2	5933.5
64°	4479.1	4691.4	5695.0	7808.4	11310.1	14021.8	10753.1	7532.7	5583.3	4663.9	4514.9
65°	3350.0	3407.9	4590.7	6668.3	10809.6	13972.2	10298.2	6603.5	4623.8	3569.2	3403.8
67.5°	1265.6	1272.5	1694.3	3323.8	7695.4	12021.5	7859.4	3592.6	1947.9	1408.9	1358.0
70°	525.2	534.9	621.8	1118.0	3307.3	7718.8	3789.8	1295.9	712.8	577.6	569.4
72.5°	384.6	390.2	416.3	496.3	1017.4	3169.4	1246.2	550.1	417.7	373.6	369.5
75°	301.9	304.7	324.0	365.3	474.3	878.1	518.3	377.7	318.4	286.7	284.0
77.5°	230.2	237.1	250.9	278.5	318.4	416.3	343.3	282.6	245.4	219.2	215.1
80°	158.6	166.8	193.0	204.0	213.7	270.2	234.4	213.7	191.6	159.9	150.3
82.5°	97.9	103.4	129.6	139.2	135.1	151.7	150.3	153.0	136.5	99.3	92.4
85°	51.0	53.8	70.3	73.1	67.6	62.0	77.2	89.6	84.1	56.5	55.1
87.5°	11.0	12.4	15.2	13.8	15.2	15.2	19.3	29.0	30.3	19.3	17.9
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)