

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: P646871

Luminaire Tested: **GALN-SA4C-835-U-5NQ-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-5NQ-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14960 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G0

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

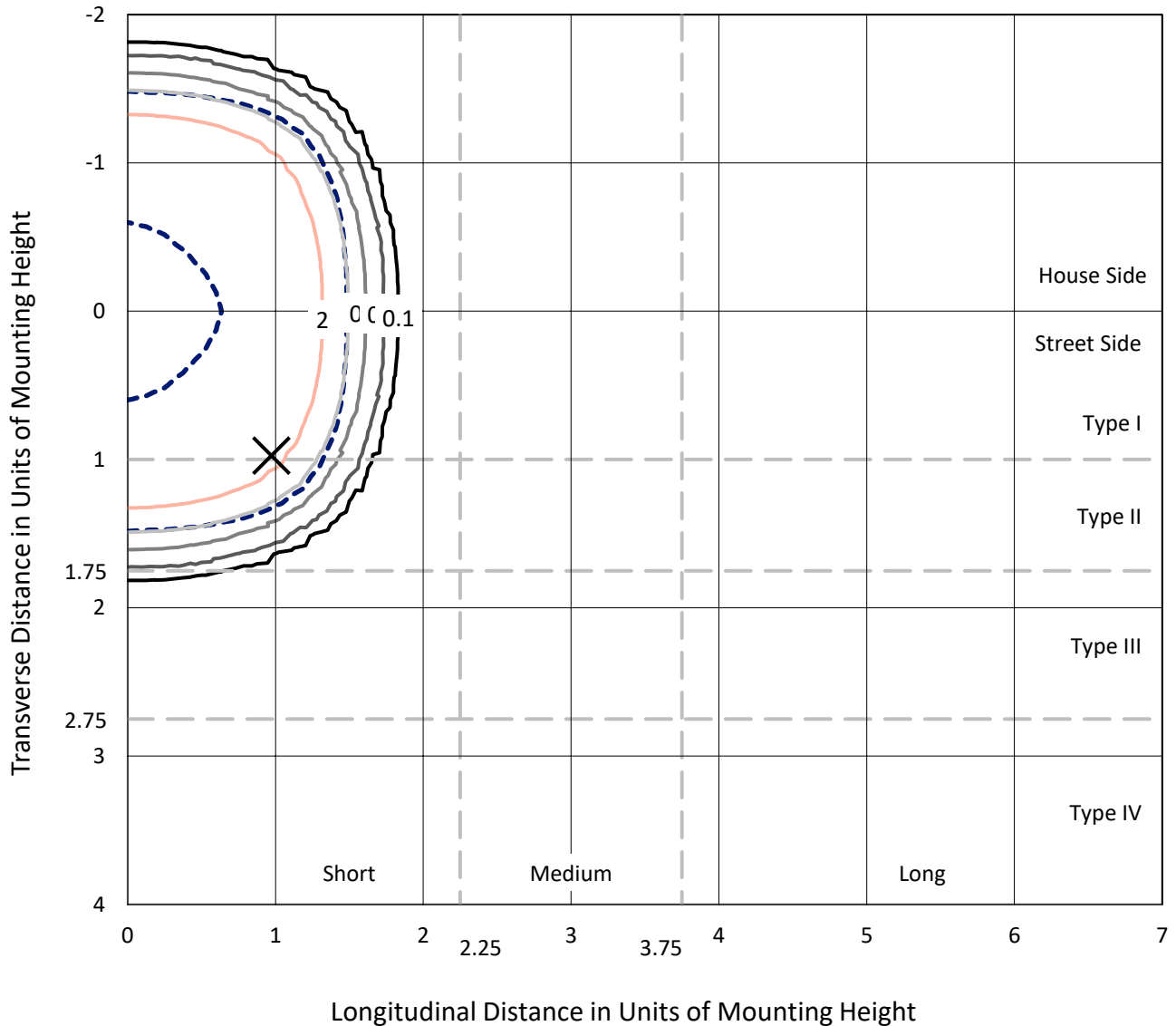




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Iso-Footcandle Lines of Horizontal Illumination

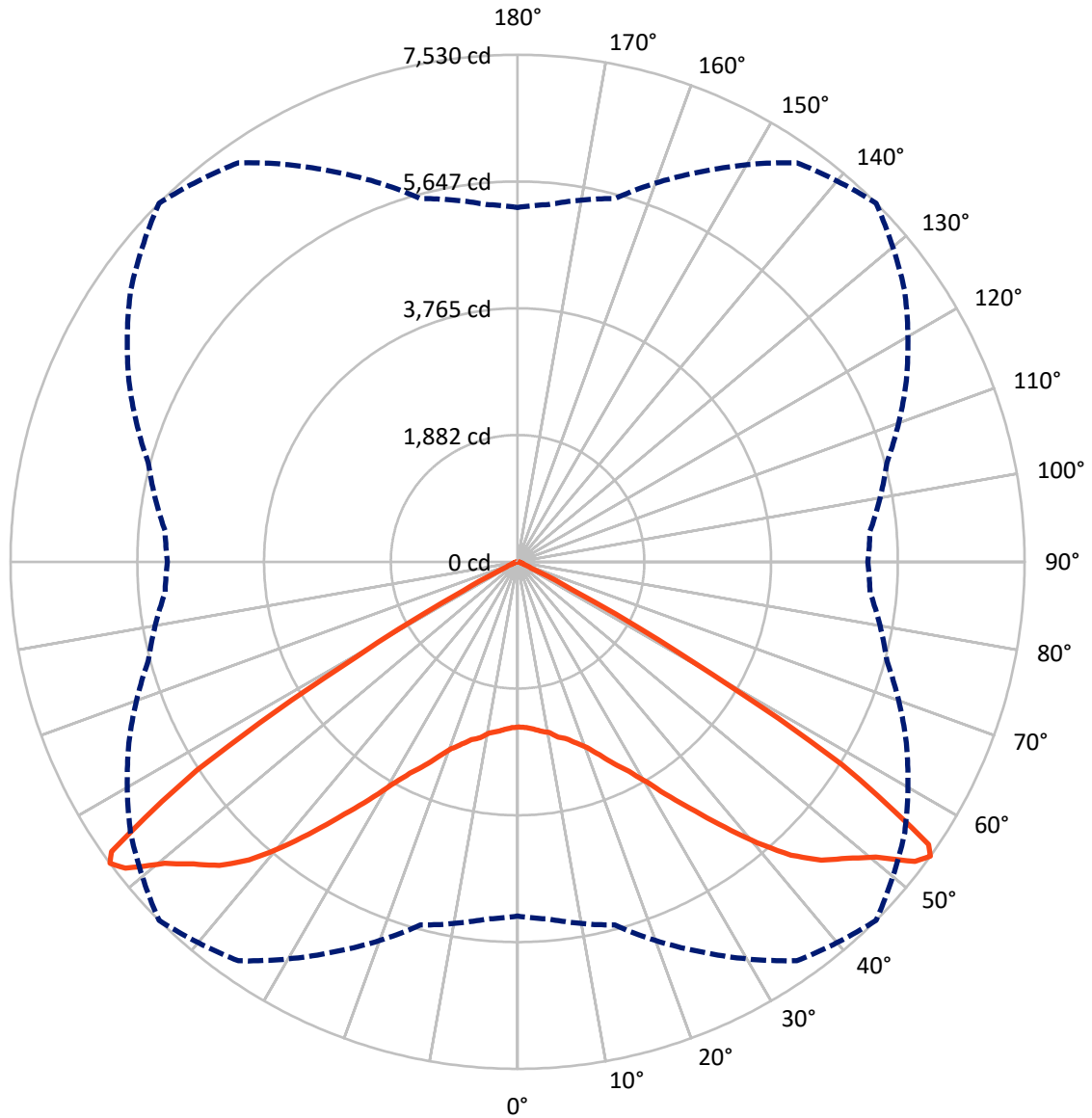
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7480.0	0.0	7480.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7480.0	0.0	7480.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	14960.0	0.0	14960.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	1.6
10°-20°	777.5	5.2
20°-30°	1523.8	10.2
30°-40°	2740.2	18.3
40°-50°	4690.7	31.4
50°-60°	4538.7	30.3
60°-70°	388.5	2.6
70°-80°	46.0	0.3
80°-90°	14.4	0.1
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°	14960.0	100.0
0°-180°	14960.0	100.0

Coefficient of Utilization

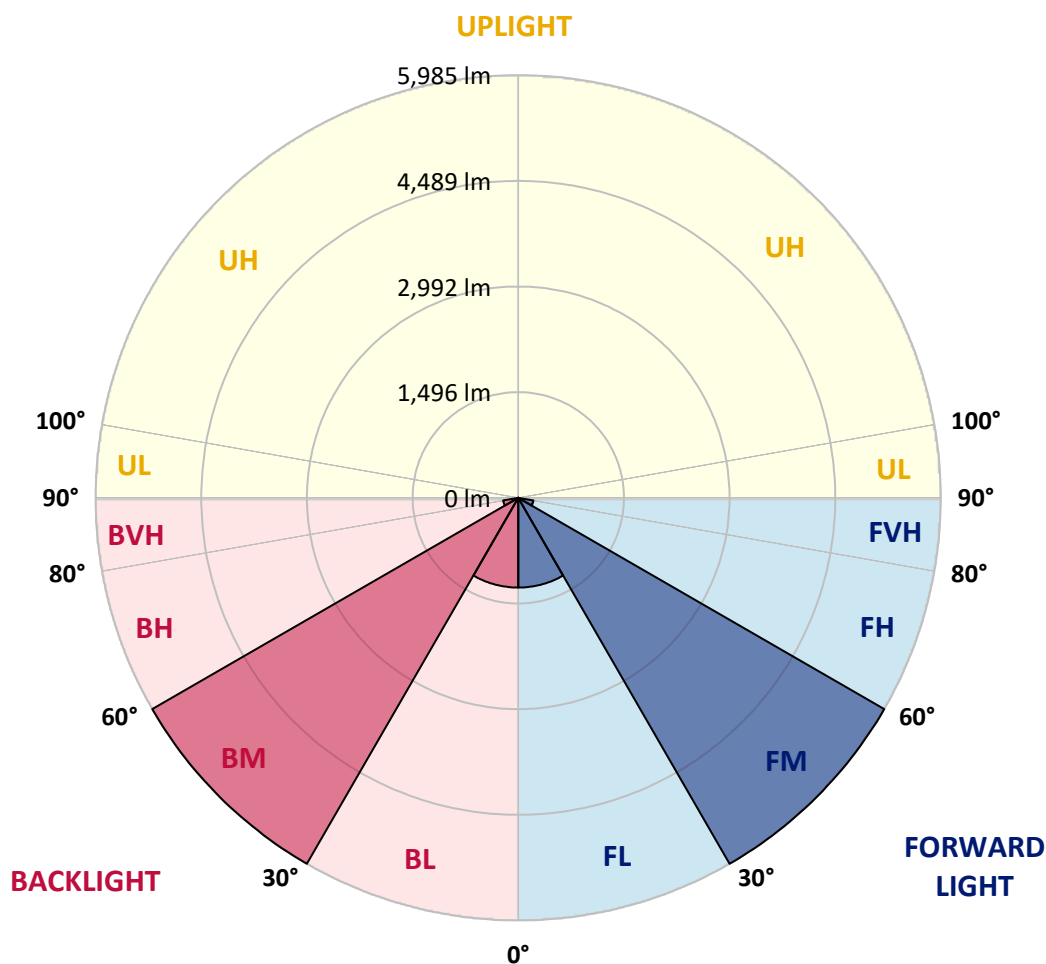


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1270.7	8.5			
FM (30°-60°)	5984.8	40.0			
FH (60°-80°)	217.3	1.5			G0/660
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	1270.7	8.5	B3/2500		
BM (30°-60°)	5984.8	40.0	B4/8500		
BH (60°-80°)	217.3	1.5	B1/500		G0/660
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G0
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2453.0	2453.0	2453.0	2453.0	2453.0	2453.0	2453.0	2453.0	2453.0	2453.0	2453.0
2.5°	2464.8	2479.1	2469.6	2476.7	2476.7	2464.8	2471.9	2443.5	2462.5	2448.2	2450.6
5°	2502.8	2500.4	2500.4	2502.8	2493.2	2498.0	2488.5	2479.1	2471.9	2462.5	2490.9
7.5°	2550.2	2550.2	2533.6	2538.3	2533.6	2540.7	2521.7	2502.8	2495.7	2488.5	2483.8
10°	2595.2	2590.4	2583.4	2604.6	2588.0	2578.6	2569.1	2557.3	2531.2	2521.7	2512.3
12.5°	2661.6	2659.1	2649.7	2671.0	2661.6	2671.0	2635.5	2604.6	2600.0	2569.1	2585.7
15°	2739.7	2761.1	2744.5	2744.5	2739.7	2727.9	2713.6	2699.5	2656.8	2645.0	2647.3
17.5°	2841.7	2834.5	2836.9	2836.9	2860.6	2829.8	2801.3	2765.8	2744.5	2737.4	2713.6
20°	2938.8	2948.3	2946.0	2962.6	2976.7	2943.5	2912.8	2908.0	2848.8	2858.3	2825.1
22.5°	3109.4	3102.3	3114.2	3126.0	3116.6	3111.9	3083.4	3047.8	2995.7	2972.0	2967.3
25°	3289.6	3277.7	3256.4	3284.8	3299.1	3320.4	3265.9	3246.9	3166.4	3130.8	3133.2
27.5°	3443.6	3460.2	3484.0	3495.8	3531.3	3524.2	3486.3	3424.7	3363.1	3322.7	3296.7
30°	3654.6	3664.0	3704.4	3721.0	3782.6	3799.1	3739.9	3668.8	3559.8	3507.6	3476.8
32.5°	3848.9	3915.3	3912.9	3995.9	4095.4	4164.2	4057.5	3948.4	3839.4	3777.8	3723.3
35°	4164.2	4152.2	4221.0	4308.7	4469.8	4548.1	4431.9	4306.3	4140.4	4040.9	3998.2
37.5°	4458.0	4462.8	4555.2	4695.0	4879.9	5000.8	4898.8	4692.7	4522.0	4394.0	4334.8
40°	4884.6	4894.1	4988.9	5147.7	5356.3	5486.6	5368.1	5159.6	4932.0	4832.4	4832.4
42.5°	5384.7	5425.0	5486.6	5624.1	5811.3	5955.9	5849.2	5685.7	5455.8	5327.8	5346.8
45°	5899.0	5917.9	5958.2	6162.1	6249.7	6320.8	6221.3	6145.5	5991.4	5835.0	5808.9
47.5°	6380.1	6387.2	6505.7	6569.7	6638.4	6579.2	6643.2	6543.6	6370.6	6219.0	6188.1
50°	6593.4	6581.6	6749.9	6944.2	6996.3	6892.0	6837.5	6771.1	6508.1	6325.6	6245.0
52.5°	5972.5	6041.2	6354.0	6894.4	7302.0	7389.7	7072.1	6766.5	6275.8	5920.3	5865.8
54°	5261.4	5325.4	5583.8	6384.8	7233.3	7529.6	7017.6	6368.2	5676.2	5254.3	5199.8
55°	4557.5	4486.4	4955.7	5773.4	6911.0	7406.3	6802.0	5853.9	5062.3	4676.1	4600.2
57.5°	2467.2	2479.1	2874.9	3647.4	4856.2	5678.6	5015.0	3960.3	2991.0	2557.3	2519.3
60°	782.1	801.1	974.1	1474.2	2320.3	2770.6	2374.8	1590.3	1099.7	881.7	846.1
62.5°	244.1	253.6	277.3	412.4	635.2	907.7	711.0	426.6	317.6	291.5	296.3
65°	149.3	149.3	151.7	161.1	189.6	220.4	213.3	187.2	180.1	175.4	173.0
67.5°	97.2	94.8	99.5	106.6	111.4	113.8	120.9	127.9	125.6	120.9	120.9
70°	59.3	56.8	61.6	71.1	73.4	78.2	85.3	94.8	92.4	87.7	90.0
72.5°	33.2	33.2	35.5	42.7	49.8	54.5	61.6	68.7	71.1	68.7	68.7
75°	11.8	14.3	18.9	26.1	30.8	37.9	45.0	52.1	59.3	54.5	52.1
77.5°	4.8	4.8	9.5	16.6	23.7	30.8	42.7	49.8	54.5	49.8	45.0
80°	2.3	2.3	7.1	14.3	21.3	28.4	35.5	42.7	45.0	40.3	35.5
82.5°	2.3	2.3	7.1	14.3	21.3	26.1	37.9	42.7	47.4	42.7	35.5
85°	0.0	2.3	7.1	14.3	18.9	21.3	21.3	14.3	11.8	7.1	7.1
87.5°	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)