

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: P458891

Luminaire Tested: **GALN-SA4B-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458891
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-SA4B-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21884 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

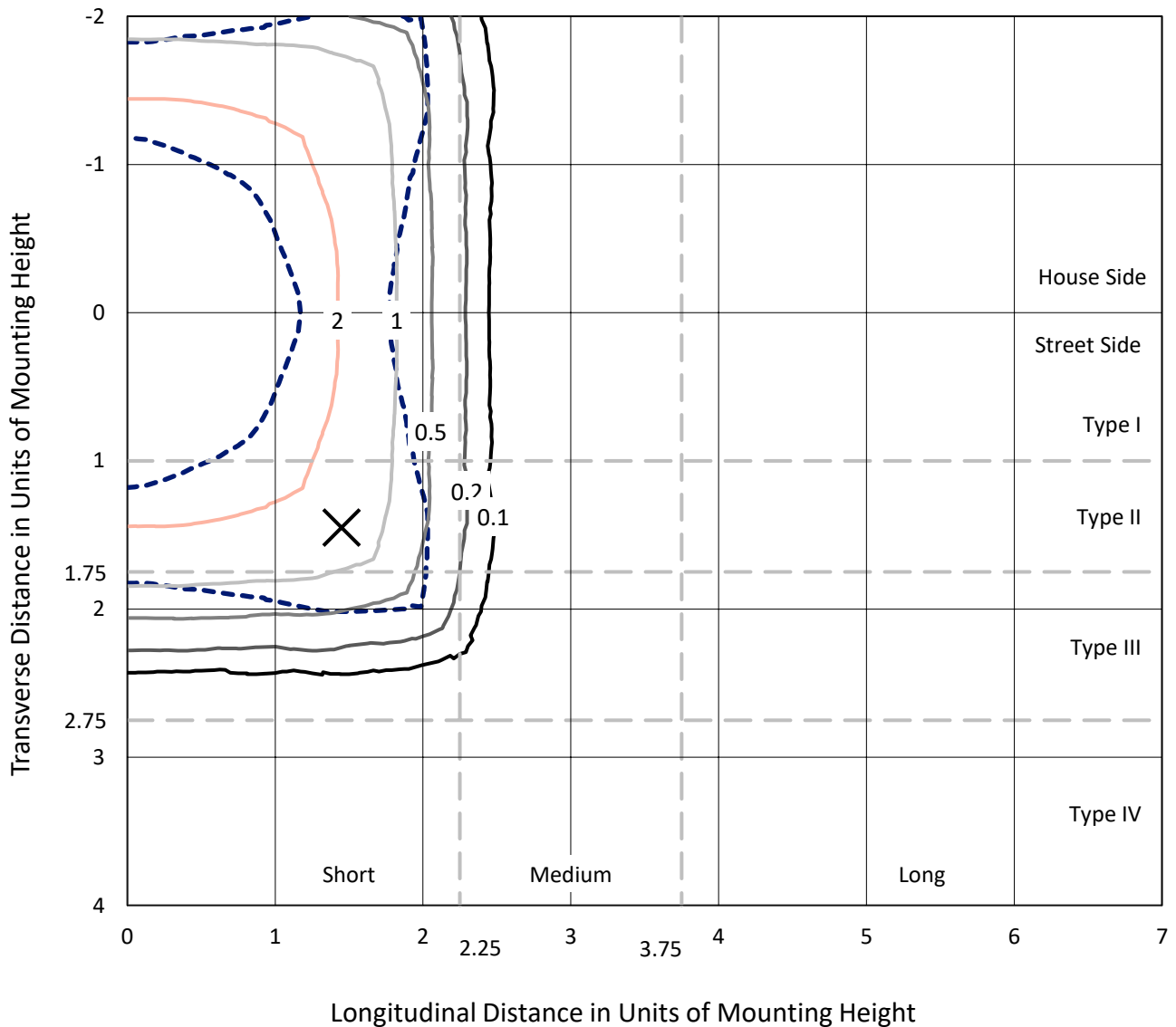
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

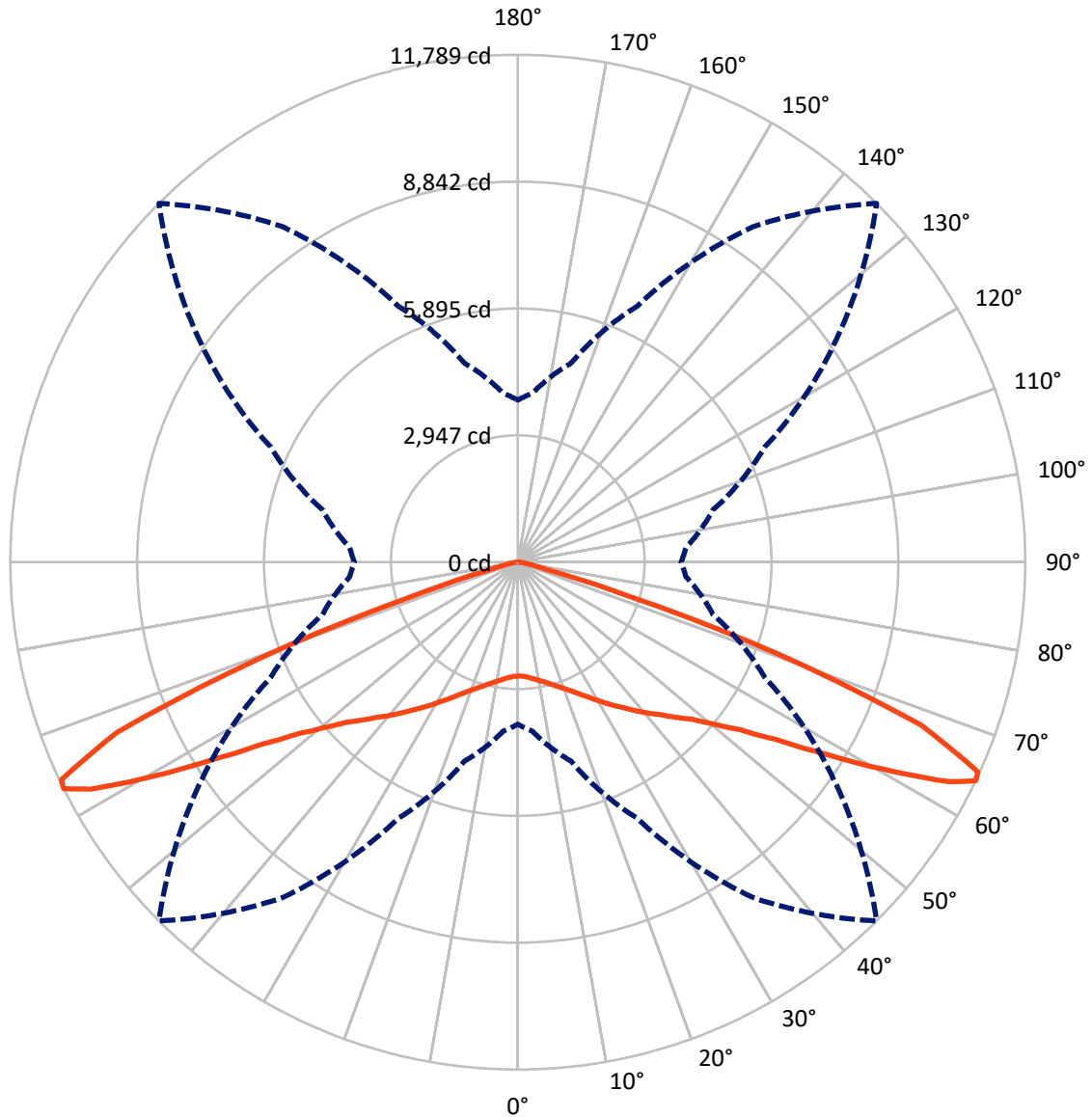
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 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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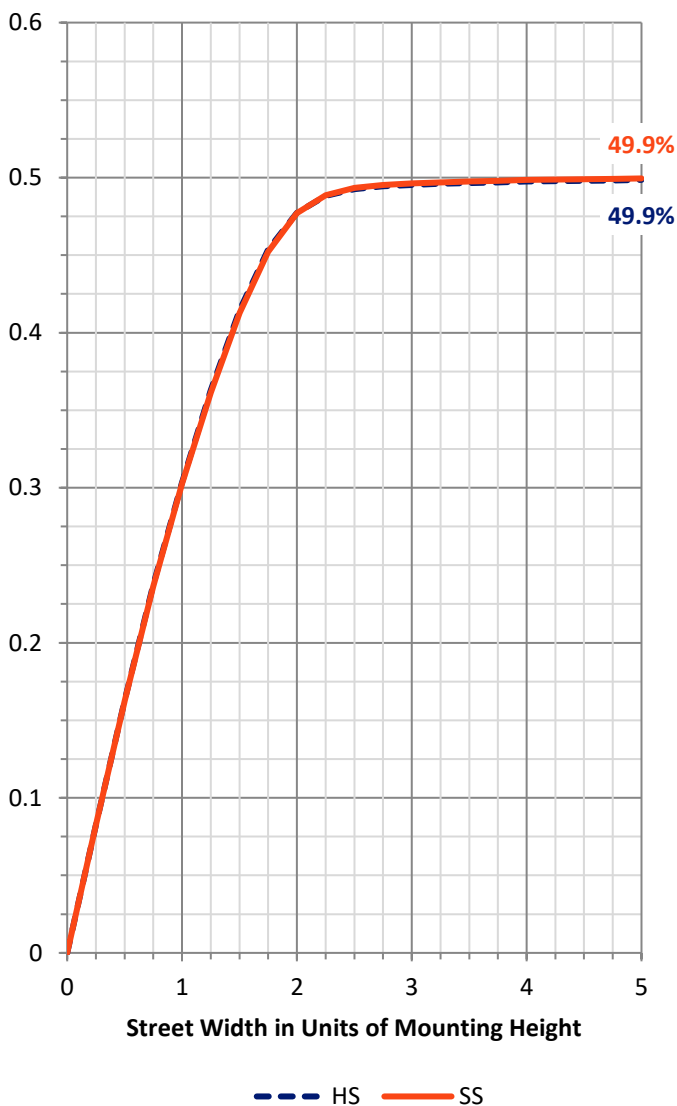
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10942.0	0.0	10942.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10942.0	0.0	10942.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	21884.0	0.0	21884.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.9	1.2
10°-20°	838.2	3.8
20°-30°	1584.0	7.2
30°-40°	2623.2	12.0
40°-50°	4095.3	18.7
50°-60°	6331.2	28.9
60°-70°	5459.4	24.9
70°-80°	618.7	2.8
80°-90°	74.1	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°	21884.0	100.0
0°-180°	21884.0	100.0

Coefficient of Utilization



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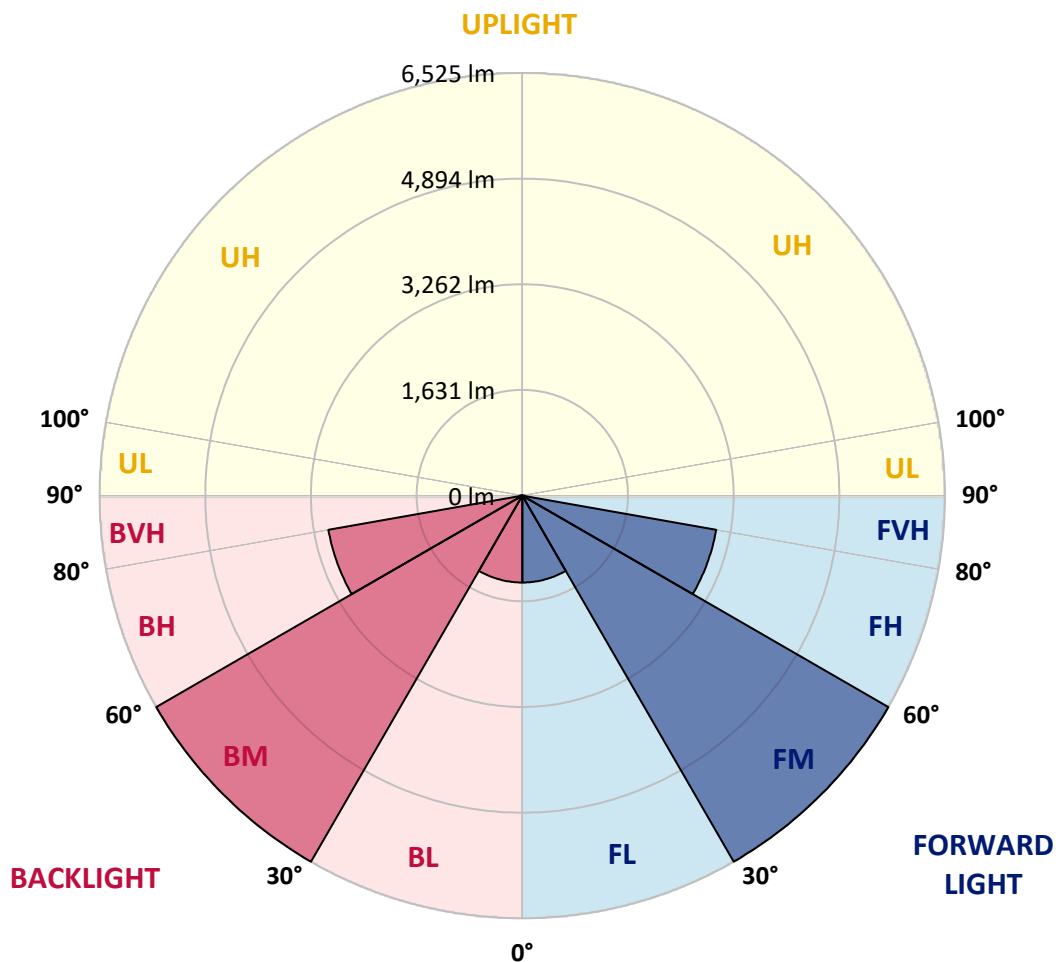
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1341.0	6.1			
FM	(30°-60°)	6524.9	29.8			
FH	(60°-80°)	3039.0	13.9			G2/5000
FVH	(80°-90°)	37.1	0.2			G1/100
BL	(0°-30°)	1341.0	6.1	B3/2500		
BM	(30°-60°)	6524.9	29.8	B4/8500		
BH	(60°-80°)	3039.0	13.9	B4/5000		G2/5000
BVH	(80°-90°)	37.1	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°	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0	2645.0
2.5°	2655.5	2661.3	2656.6	2655.5	2654.3	2654.3	2654.3	2655.5	2660.1	2663.6	2661.3
5°	2689.1	2693.7	2691.4	2690.3	2689.1	2690.3	2687.9	2686.8	2690.3	2690.3	2689.1
7.5°	2730.8	2736.6	2734.3	2736.6	2737.8	2738.9	2733.1	2728.5	2727.3	2730.8	2728.5
10°	2787.6	2792.3	2793.4	2794.6	2796.9	2795.7	2788.8	2780.7	2779.5	2778.3	2777.2
12.5°	2851.4	2854.8	2856.0	2860.6	2864.1	2865.3	2857.2	2850.2	2838.6	2840.9	2836.3
15°	2923.2	2930.2	2929.0	2936.0	2945.3	2947.6	2939.5	2927.9	2917.4	2911.6	2908.2
17.5°	3011.3	3016.0	3013.6	3020.6	3032.2	3038.0	3031.0	3016.0	3005.5	2992.8	2985.8
20°	3115.6	3123.8	3126.1	3126.1	3136.5	3142.3	3131.9	3127.2	3111.0	3101.7	3095.9
22.5°	3233.9	3237.3	3244.3	3251.3	3261.7	3259.4	3255.9	3248.9	3233.9	3225.8	3216.5
25°	3367.2	3370.6	3388.0	3403.1	3406.6	3404.3	3399.6	3396.1	3382.2	3363.7	3356.7
27.5°	3522.5	3529.4	3552.6	3566.5	3566.5	3567.7	3558.4	3570.0	3539.9	3517.8	3515.5
30°	3717.2	3721.8	3741.6	3755.5	3748.5	3742.7	3740.4	3752.0	3719.5	3680.1	3670.8
32.5°	3909.6	3925.8	3943.2	3973.4	3949.0	3938.6	3936.3	3944.4	3907.3	3863.3	3850.5
35°	4115.9	4127.5	4160.0	4185.5	4163.5	4139.1	4149.6	4175.1	4131.0	4071.9	4069.6
37.5°	4344.3	4354.7	4396.4	4423.1	4406.9	4365.1	4382.5	4412.7	4368.6	4295.6	4280.5
40°	4581.9	4603.9	4656.1	4683.9	4657.2	4601.6	4634.1	4666.5	4627.1	4542.5	4508.9
42.5°	4848.5	4883.3	4958.6	4972.5	4921.5	4846.2	4903.0	4955.1	4927.3	4829.9	4817.2
45°	5160.3	5181.1	5273.9	5304.0	5233.3	5139.4	5210.1	5305.2	5284.3	5171.9	5147.5
47.5°	5509.2	5528.9	5625.1	5670.3	5581.0	5454.7	5582.2	5706.2	5693.5	5572.9	5561.3
50°	5921.8	5926.4	6059.7	6110.7	6021.5	5912.5	6026.1	6180.3	6129.3	5975.1	5972.8
52.5°	6373.9	6379.6	6547.7	6646.2	6596.4	6473.5	6608.0	6701.9	6572.1	6370.4	6355.3
55°	6765.6	6794.6	7024.1	7286.1	7354.4	7265.2	7305.8	7261.7	6941.8	6659.0	6614.9
57.5°	6925.6	6982.4	7331.3	7820.4	8265.5	8397.6	8084.7	7665.1	7089.0	6689.1	6646.2
60°	6535.0	6596.4	7137.7	8066.1	9202.0	9775.8	8896.0	7733.5	6754.0	6191.9	6124.6
62.5°	5233.3	5250.7	6047.0	7487.7	9748.0	11233.9	9238.0	7150.4	5779.2	5015.4	4988.7
64°	3765.9	3944.4	4788.2	6565.1	9509.2	11789.1	9040.9	6333.3	4694.3	3921.2	3796.0
65°	2816.6	2865.3	3859.8	5606.5	9088.4	11747.4	8658.4	5552.1	3887.6	3000.9	2861.8
67.5°	1064.0	1069.8	1424.5	2794.6	6470.1	10107.3	6608.0	3020.6	1637.8	1184.6	1141.7
70°	441.6	449.7	522.8	940.0	2780.7	6489.8	3186.3	1089.5	599.3	485.7	478.7
72.5°	323.4	328.0	350.0	417.3	855.4	2664.8	1047.8	462.5	351.2	314.1	310.6
75°	253.8	256.2	272.4	307.2	398.7	738.3	435.8	317.6	267.8	241.1	238.8
77.5°	193.6	199.4	211.0	234.1	267.8	350.0	288.6	237.6	206.3	184.3	180.8
80°	133.3	140.3	162.3	171.5	179.7	227.2	197.0	179.7	161.1	134.5	126.3
82.5°	82.3	86.9	109.0	117.1	113.6	127.5	126.3	128.7	114.8	83.5	77.7
85°	42.9	45.2	59.1	61.4	56.8	52.2	64.9	75.3	70.7	47.5	46.4
87.5°	9.3	10.4	12.8	11.6	12.8	12.8	16.2	24.3	25.5	16.2	15.1
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)