

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: P650843

Luminaire Tested: **GALN-SA4C-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24131.7 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

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

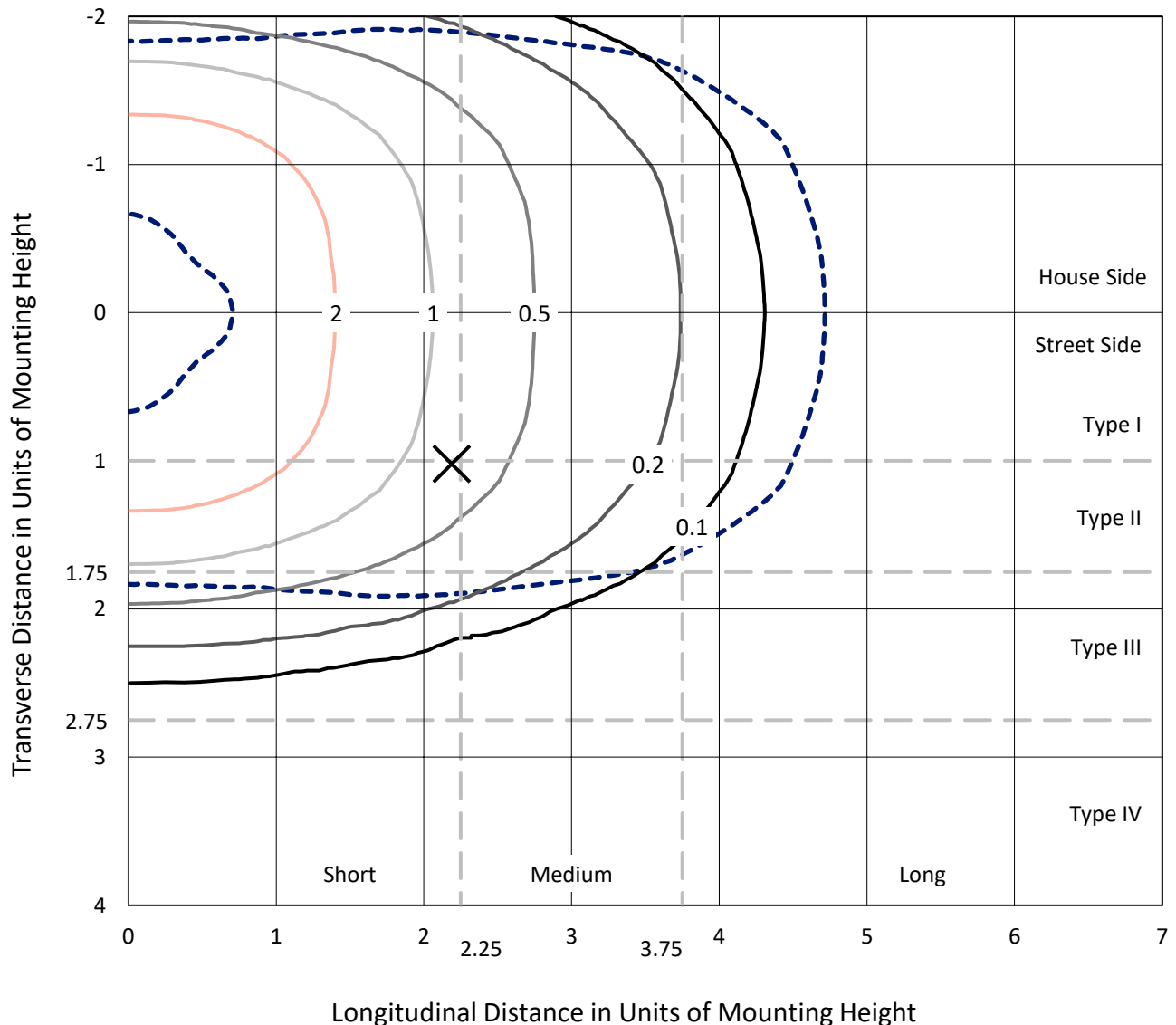




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Iso-Footcandle Lines of Horizontal Illumination

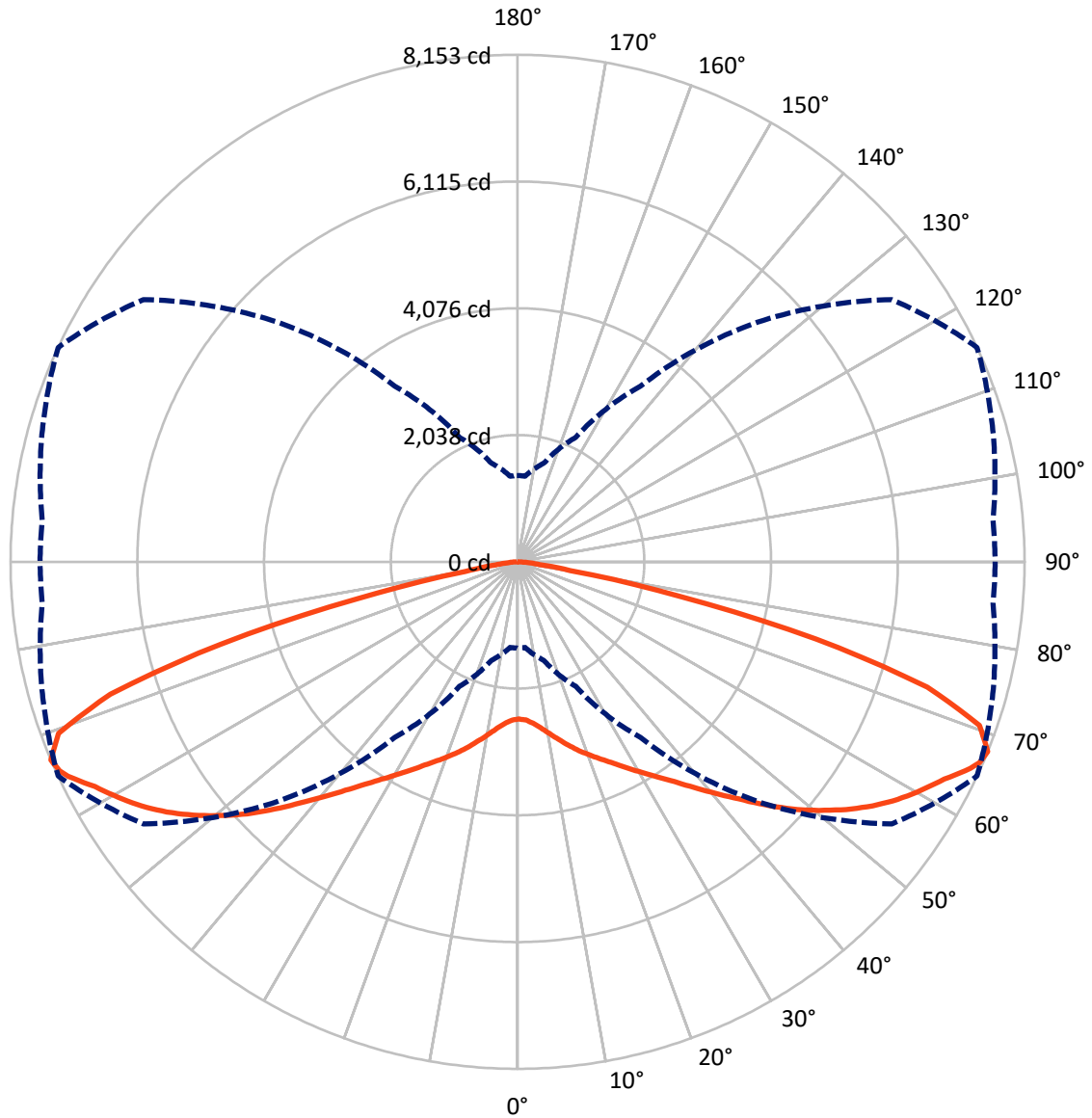
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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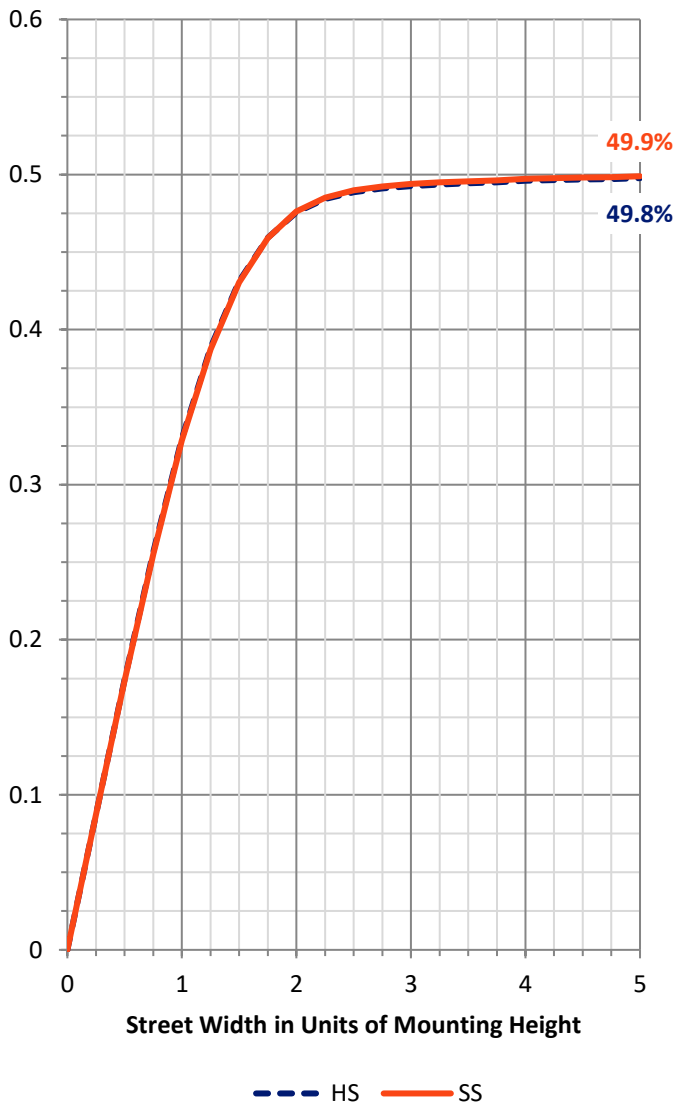
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12065.8	0.0	12065.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12065.8	0.0	12065.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	24131.7	0.0	24131.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.3	1.0
10°-20°	834.3	3.5
20°-30°	1632.0	6.8
30°-40°	2775.9	11.5
40°-50°	4393.4	18.2
50°-60°	5825.5	24.1
60°-70°	5495.3	22.8
70°-80°	2716.6	11.3
80°-90°	209.4	0.9
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°	24131.7	100.0
0°-180°	24131.7	100.0

Coefficient of Utilization



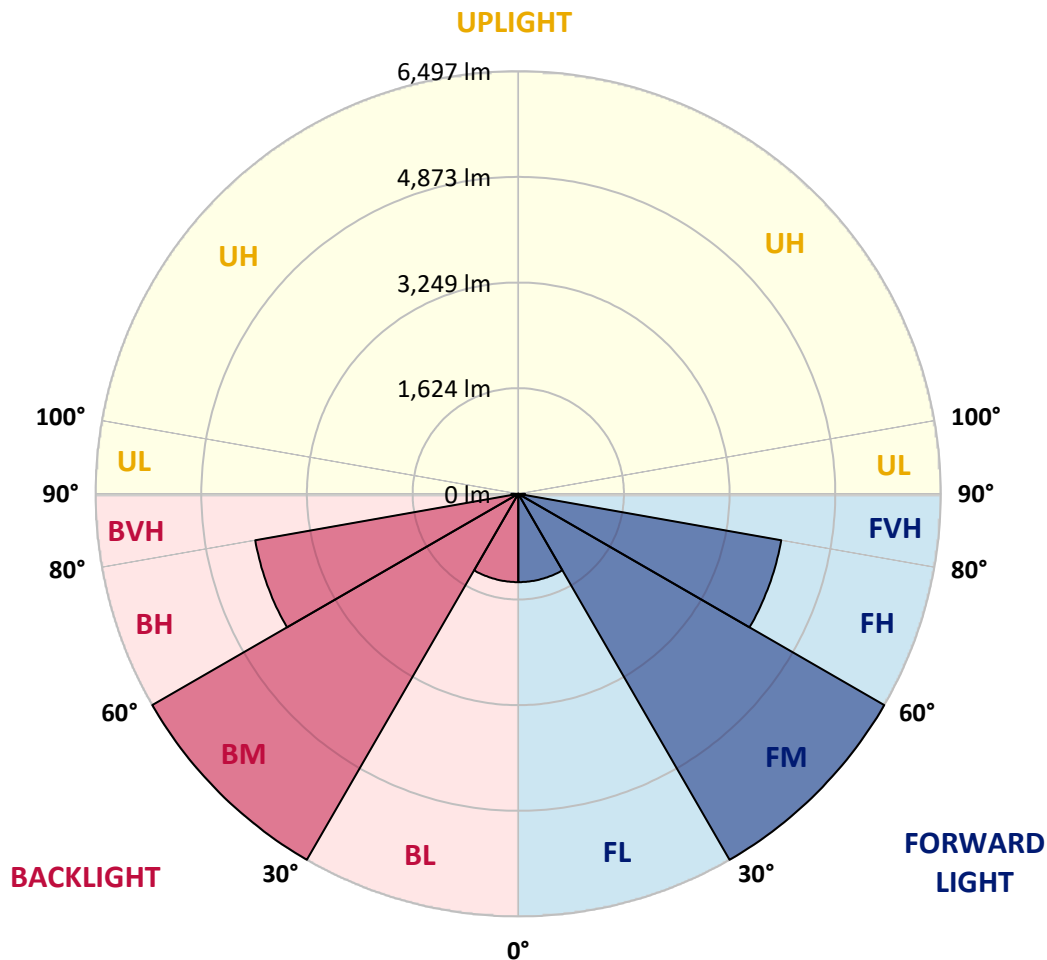
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1357.8	5.6			
FM	(30°-60°)	6497.4	26.9			
FH	(60°-80°)	4105.9	17.0			G2/5000
FVH	(80°-90°)	104.7	0.4			G2/225
BL	(0°-30°)	1357.8	5.6	B3/2500		
BM	(30°-60°)	6497.4	26.9	B4/8500		
BH	(60°-80°)	4105.9	17.0	B4/5000		G4/5000
BVH	(80°-90°)	104.7	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5	2527.5
2.5°	2514.7	2517.2	2519.8	2523.7	2528.9	2536.6	2541.8	2545.7	2556.1	2557.3	2556.1
5°	2505.6	2508.2	2514.7	2526.3	2543.1	2566.4	2584.5	2606.4	2623.2	2634.9	2632.3
7.5°	2504.3	2509.5	2519.8	2544.4	2576.7	2616.8	2658.1	2695.7	2728.0	2753.9	2750.0
10°	2525.0	2531.5	2548.2	2584.5	2634.9	2693.1	2751.2	2806.8	2853.3	2887.0	2898.7
12.5°	2559.9	2565.0	2596.1	2650.4	2722.8	2795.2	2861.2	2929.6	2994.3	3051.2	3051.2
15°	2620.6	2629.7	2668.5	2747.4	2836.6	2920.6	2987.8	3060.2	3130.0	3194.7	3214.1
17.5°	2704.7	2717.6	2775.8	2876.6	2990.4	3068.0	3131.4	3190.8	3251.6	3313.6	3322.7
20°	2819.8	2832.7	2910.3	3031.8	3166.3	3259.4	3302.0	3316.2	3346.0	3405.5	3413.2
22.5°	2976.2	2989.2	3075.8	3212.8	3362.7	3463.7	3481.7	3448.1	3440.4	3486.9	3492.1
25°	3153.3	3164.9	3264.5	3411.9	3567.0	3676.9	3671.8	3589.1	3542.5	3571.0	3578.7
27.5°	3352.4	3369.2	3470.1	3622.6	3790.7	3887.7	3872.1	3752.0	3652.4	3647.2	3649.8
30°	3607.1	3625.2	3720.9	3867.0	4032.5	4121.7	4089.4	3927.8	3773.9	3722.2	3722.2
32.5°	3876.1	3921.3	4018.3	4170.9	4300.1	4364.8	4315.6	4121.7	3917.5	3845.1	3841.2
35°	4226.4	4251.0	4346.6	4495.3	4592.3	4642.7	4548.4	4340.2	4104.9	4019.6	4008.0
37.5°	4569.1	4589.8	4700.9	4843.2	4960.8	4958.2	4830.2	4600.1	4337.6	4241.9	4234.2
40°	4919.4	4941.4	5068.1	5198.6	5316.3	5306.0	5150.8	4893.5	4614.3	4507.0	4527.7
42.5°	5223.2	5247.8	5391.3	5577.5	5683.5	5680.9	5501.2	5211.6	4920.7	4825.0	4843.2
45°	5499.9	5521.9	5688.7	5902.0	6057.1	6076.6	5880.0	5573.6	5274.9	5152.1	5157.3
47.5°	5695.2	5736.5	5911.1	6155.4	6366.1	6434.7	6242.0	5942.1	5598.2	5470.2	5477.9
50°	5843.8	5869.7	6059.7	6337.7	6604.0	6746.2	6591.1	6283.4	5921.4	5785.7	5803.7
52.5°	5861.9	5893.0	6099.8	6420.4	6761.7	6977.7	6901.4	6617.0	6251.1	6111.5	6150.2
55°	5714.5	5732.6	5979.6	6368.7	6823.8	7149.6	7169.0	6927.2	6565.3	6459.2	6485.1
57.5°	5294.3	5340.9	5653.8	6126.9	6738.5	7241.4	7369.4	7209.1	6883.2	6778.5	6819.9
60°	4605.2	4651.7	4965.9	5565.8	6416.6	7198.7	7534.9	7458.6	7171.6	7087.5	7109.6
62.5°	3608.4	3604.5	3993.7	4729.4	5776.6	6989.3	7657.7	7699.1	7456.1	7350.0	7383.6
65°	2338.8	2350.4	2726.7	3519.2	4810.8	6456.6	7684.9	8005.5	7735.3	7575.0	7599.5
66°	1881.1	1916.1	2235.4	2965.9	4318.2	6107.6	7603.4	8096.0	7820.6	7626.7	7638.3
67.5°	1388.6	1382.1	1644.6	2208.2	3448.1	5444.3	7348.7	8152.9	7917.6	7673.2	7678.4
70°	792.6	791.2	884.3	1212.7	2027.2	3833.4	6194.2	7880.1	8114.1	7841.3	7827.1
72.5°	579.2	575.3	588.3	669.7	989.0	1935.5	4273.0	6887.2	8013.3	7814.2	7774.1
75°	486.1	483.6	481.0	491.3	554.6	876.6	2267.7	4954.3	6953.1	7334.5	7293.2
77.5°	397.0	397.0	398.2	395.6	398.2	461.5	939.9	2655.5	4234.2	4726.8	4841.8
80°	310.3	309.0	331.0	321.9	301.2	296.0	416.3	854.6	1405.4	1397.6	1153.3
82.5°	228.8	213.4	252.1	245.7	222.4	188.7	243.0	364.6	469.3	305.1	226.2
85°	144.8	143.5	178.4	162.9	135.7	89.2	116.4	156.4	193.9	117.7	95.7
87.5°	25.8	24.6	56.9	41.4	41.4	25.8	32.3	42.6	63.3	44.0	32.3
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)