

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: P651386

Luminaire Tested: **GALN-SA5D-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651386
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34099.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

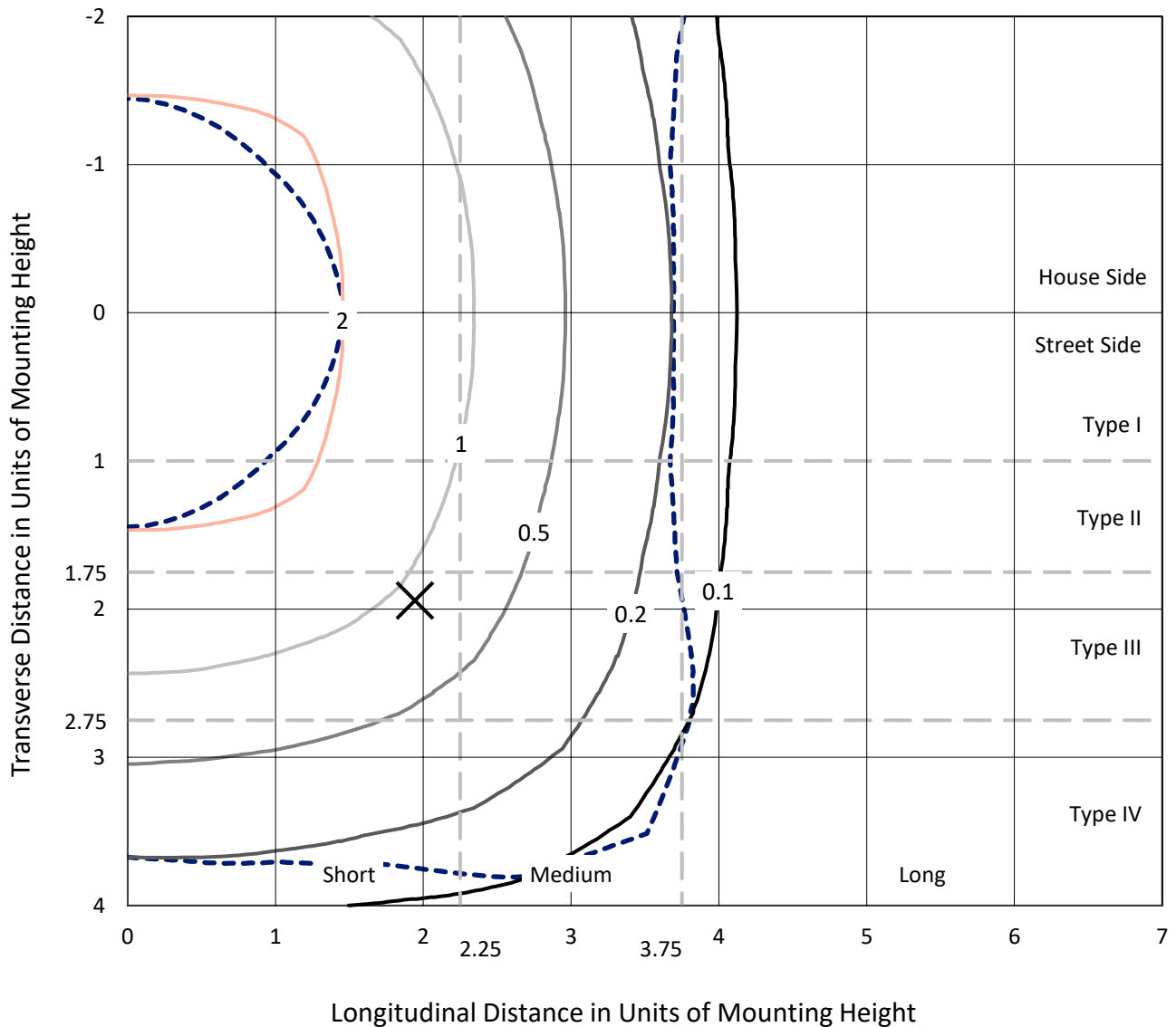
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

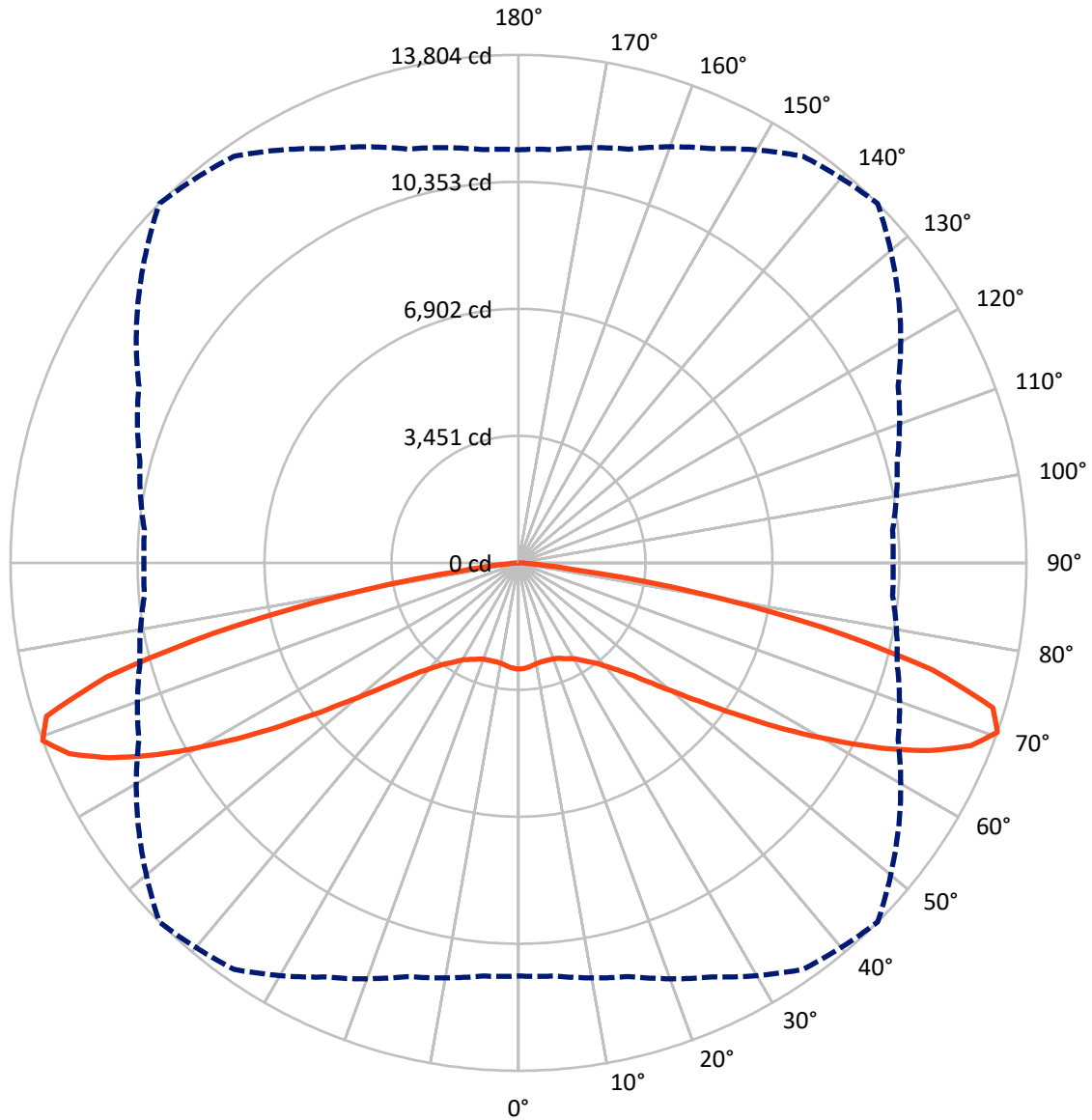
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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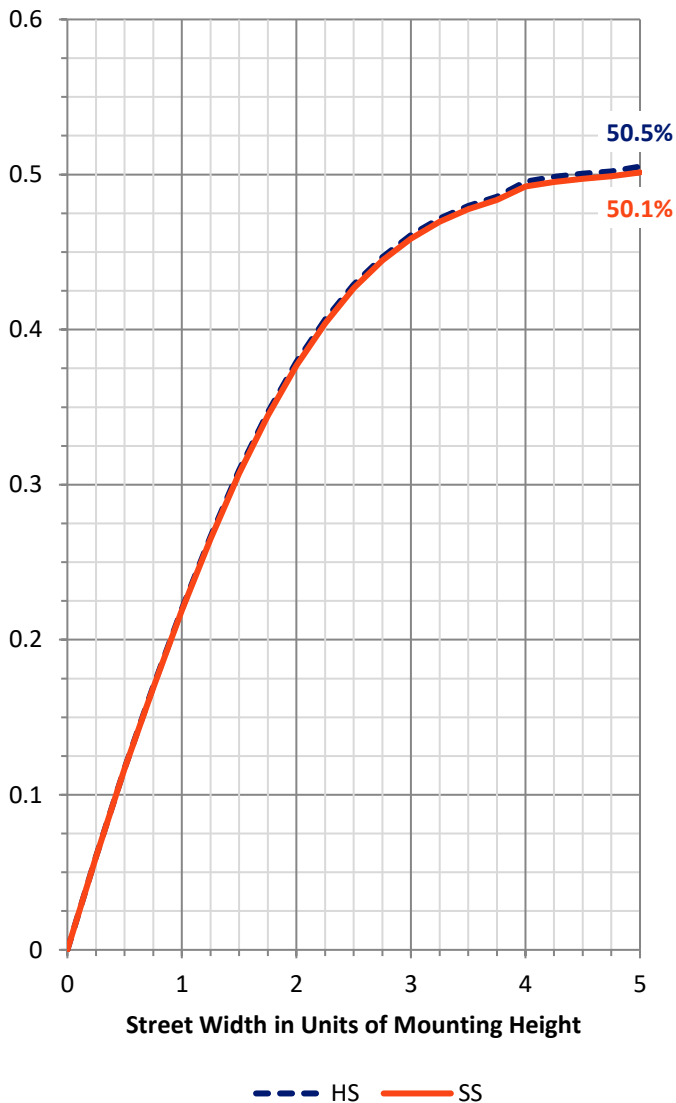
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17049.6	0.0	17049.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	17049.6	0.0	17049.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	34099.2	0.0	34099.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.0	0.8
10°-20°	790.4	2.3
20°-30°	1346.6	3.9
30°-40°	2087.3	6.1
40°-50°	3513.2	10.3
50°-60°	6392.0	18.7
60°-70°	10821.5	31.7
70°-80°	8376.3	24.6
80°-90°	501.9	1.5
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°	34099.2	100.0
0°-180°	34099.2	100.0



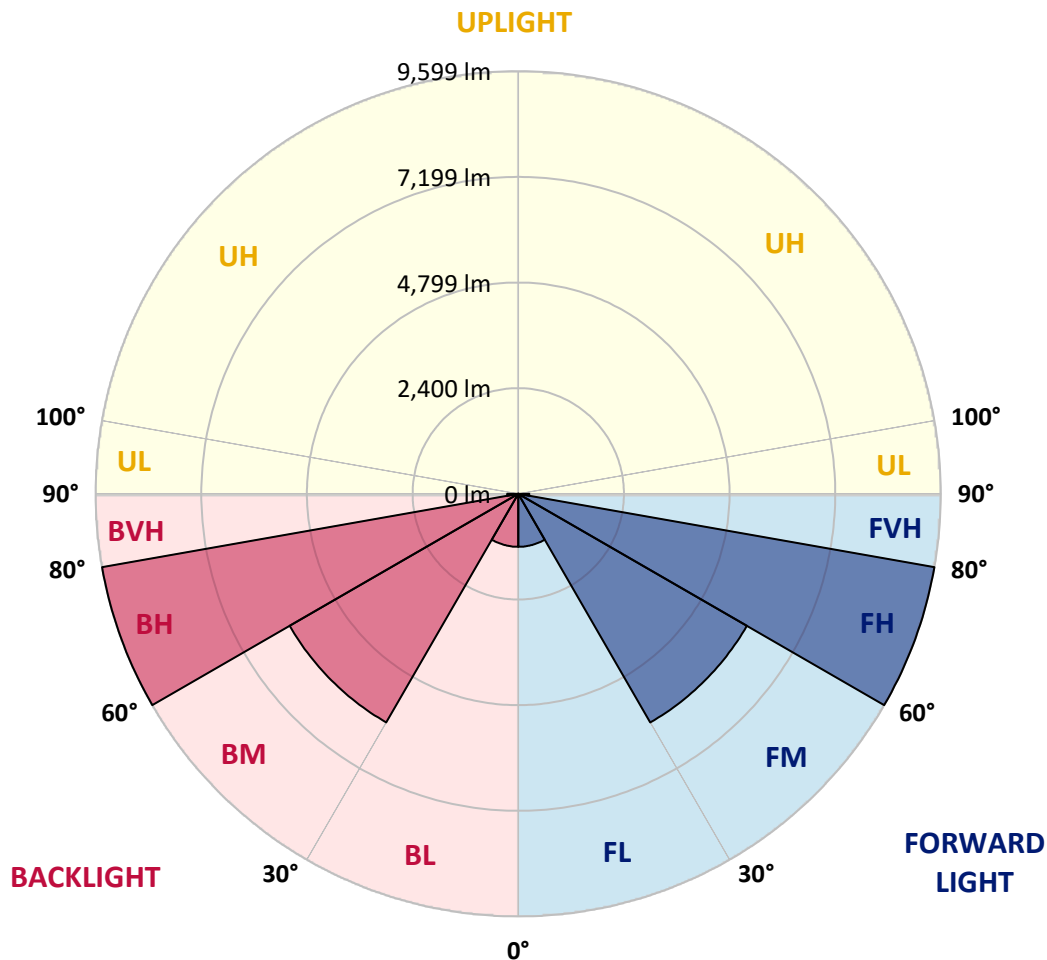
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.5	3.5			
FM (30°-60°)	5996.2	17.6			
FH (60°-80°)	9598.9	28.1			G4/12000
FVH (80°-90°)	251.0	0.7			G3/500
BL (0°-30°)	1203.5	3.5	B3/2500		
BM (30°-60°)	5996.2	17.6	B4/8500		
BH (60°-80°)	9598.9	28.1	B5		G4/12000
BVH (80°-90°)	251.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2886.9	2886.9	2886.9	2886.9	2886.9	2886.9	2886.9	2886.9	2886.9	2886.9	2886.9
2.5°	2879.7	2881.5	2881.5	2877.9	2876.1	2876.1	2874.3	2874.3	2879.7	2881.5	2883.3
5°	2854.5	2854.5	2854.5	2852.7	2849.1	2849.1	2845.5	2845.5	2847.3	2852.7	2849.1
7.5°	2820.3	2823.9	2823.9	2816.7	2811.3	2811.3	2809.4	2811.3	2813.1	2818.4	2816.7
10°	2809.4	2811.3	2802.3	2789.7	2780.7	2775.2	2777.1	2780.7	2789.7	2793.3	2795.1
12.5°	2816.7	2816.7	2800.4	2782.4	2766.2	2759.1	2757.2	2769.8	2786.1	2796.8	2800.4
15°	2825.7	2822.1	2802.3	2778.8	2762.7	2760.8	2759.1	2768.1	2791.4	2813.1	2814.9
17.5°	2831.1	2829.3	2804.1	2775.2	2766.2	2766.2	2764.5	2771.7	2796.8	2823.9	2825.7
20°	2849.1	2843.7	2814.9	2784.3	2777.1	2780.7	2775.2	2784.3	2811.3	2843.7	2850.9
22.5°	2885.1	2879.7	2850.9	2820.3	2816.7	2816.7	2814.9	2823.9	2852.7	2886.9	2892.3
25°	2928.4	2922.9	2895.9	2874.3	2877.9	2885.1	2881.5	2883.3	2906.7	2935.5	2944.5
27.5°	2986.0	2977.0	2953.5	2935.5	2946.4	2946.4	2946.4	2944.5	2959.0	2986.0	2995.0
30°	3056.2	3052.6	3027.3	3025.6	3034.6	3025.6	3025.6	3027.3	3029.2	3054.4	3063.4
32.5°	3148.0	3140.9	3128.3	3124.7	3149.9	3157.0	3131.9	3108.4	3121.0	3146.3	3151.6
35°	3299.3	3288.6	3270.5	3250.7	3270.5	3304.7	3250.7	3232.7	3265.1	3299.3	3302.9
37.5°	3504.6	3499.2	3470.4	3434.4	3432.6	3468.6	3412.8	3411.0	3472.2	3513.6	3519.1
40°	3762.2	3767.6	3731.5	3697.4	3679.3	3708.1	3664.9	3681.1	3740.6	3787.4	3783.7
42.5°	4124.2	4104.3	4048.5	4016.1	3996.3	3985.5	3974.7	3999.9	4066.6	4116.9	4156.6
45°	4547.4	4540.1	4469.9	4430.3	4387.1	4370.9	4367.3	4412.3	4493.4	4554.6	4560.0
47.5°	5026.4	5010.3	4965.2	4923.8	4907.6	4887.7	4869.7	4904.0	4985.0	5028.3	5040.9
50°	5519.9	5523.5	5523.5	5516.3	5532.5	5536.1	5487.4	5500.1	5545.1	5541.5	5537.9
52.5°	6083.6	6103.4	6197.1	6206.1	6283.5	6335.8	6247.5	6195.2	6179.1	6081.8	6089.0
55°	6746.3	6764.3	6904.9	7045.3	7254.2	7342.4	7157.0	6994.8	6879.6	6732.0	6739.1
57.5°	7573.0	7582.0	7715.2	7985.4	8316.7	8523.9	8197.9	7877.3	7643.2	7502.7	7446.9
60°	8462.6	8471.6	8666.2	8995.8	9510.8	9762.9	9359.5	8835.5	8540.1	8325.7	8340.2
62.5°	9530.6	9566.6	9741.3	10195.1	10820.1	11102.8	10567.9	9867.4	9467.6	9201.0	9211.8
65°	10674.2	10735.4	10926.4	11425.2	12001.5	12305.8	11650.3	10841.7	10344.6	10018.7	10052.9
67.5°	11416.2	11470.2	11745.7	12296.8	13015.4	13267.5	12421.1	11479.2	10857.9	10468.9	10396.9
70°	11227.1	11272.1	11639.5	12421.1	13485.4	13804.3	12604.8	11385.5	10654.4	10206.0	10177.1
72.5°	9910.6	9816.9	10353.6	11475.6	12948.8	13483.7	12026.7	10398.6	9478.4	9017.3	8963.3
75°	6568.0	6771.6	7564.0	8885.8	10955.1	11617.9	10265.4	8349.2	7191.1	6807.6	6748.1
77.5°	2195.3	2352.0	3056.2	5037.3	7468.5	8464.4	7479.3	5460.4	3863.0	3112.0	3126.4
80°	581.7	574.5	743.8	1385.0	3227.3	4902.2	3756.7	1849.6	1012.1	733.0	695.2
82.5°	208.9	234.1	300.7	383.6	855.5	1523.6	1075.1	518.6	380.0	281.0	272.0
85°	91.8	90.1	129.7	153.1	214.3	284.5	252.1	219.8	192.7	127.8	118.8
87.5°	19.8	19.8	30.6	23.4	37.8	37.8	46.8	55.8	57.6	37.8	30.6
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)