

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: P650780

Luminaire Tested: **GALN-SA3C-840-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14974.8 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

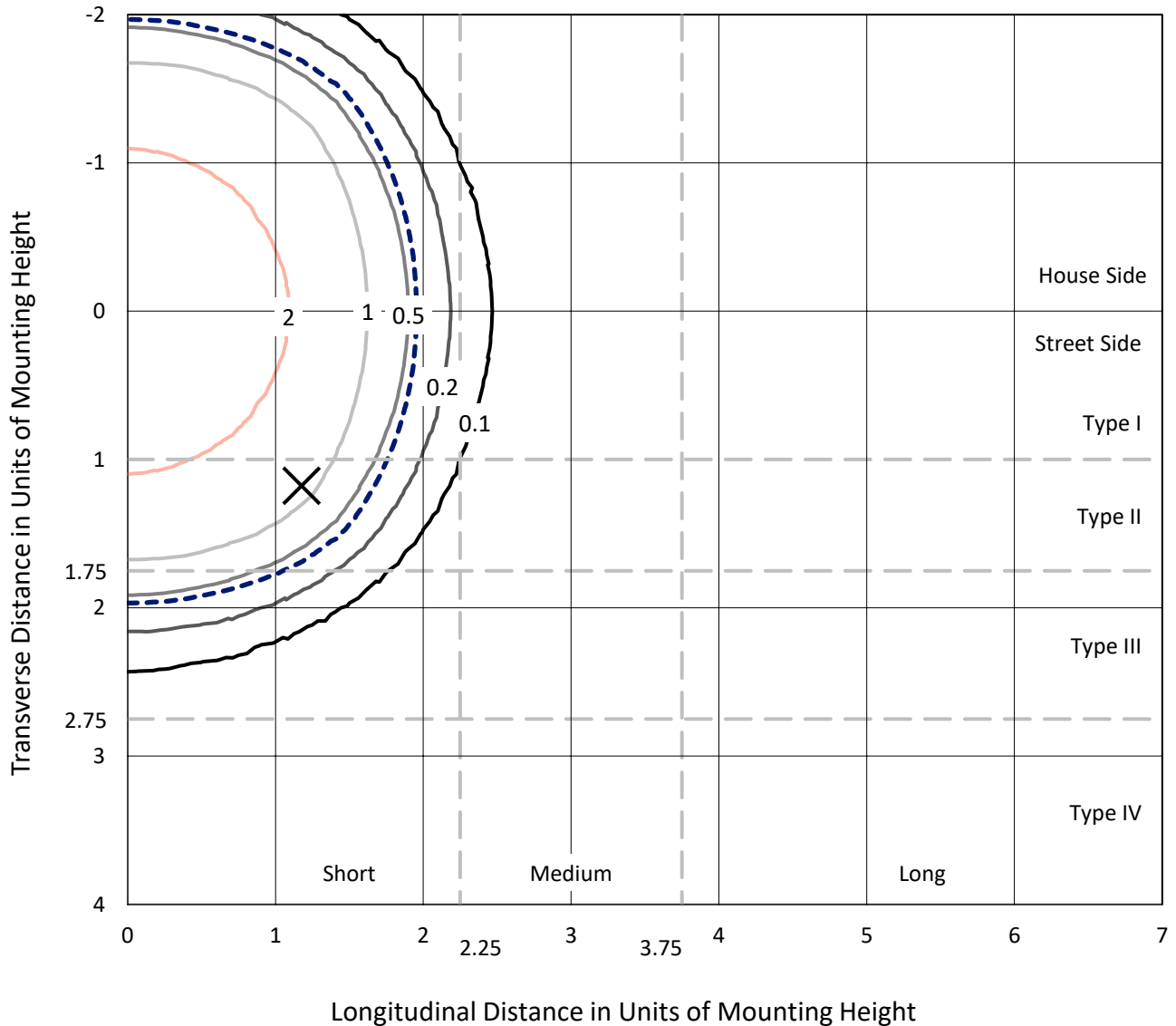
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

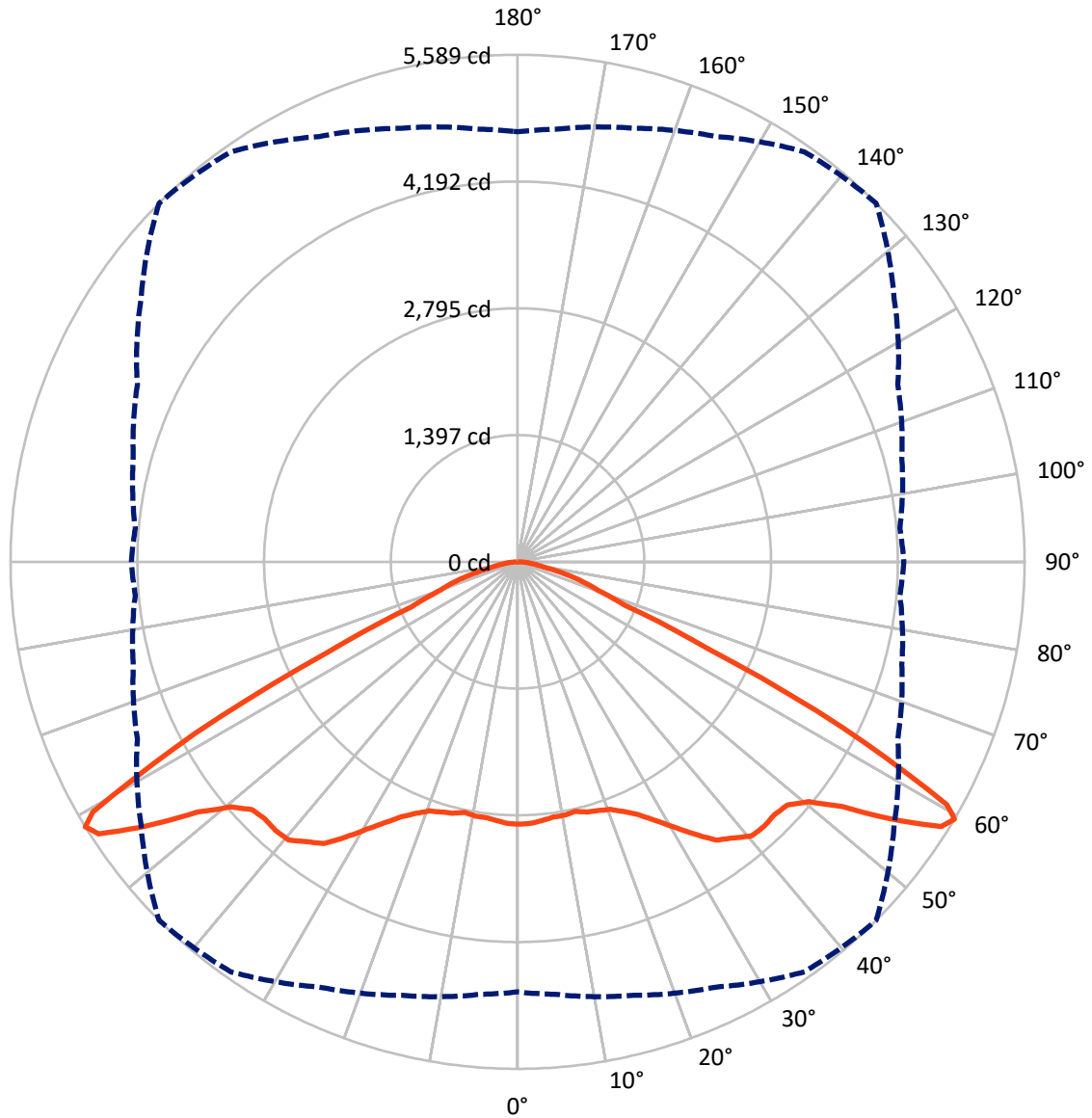
× Max cd
 - - - 1/2 Max cd



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 59-Deg Vertical

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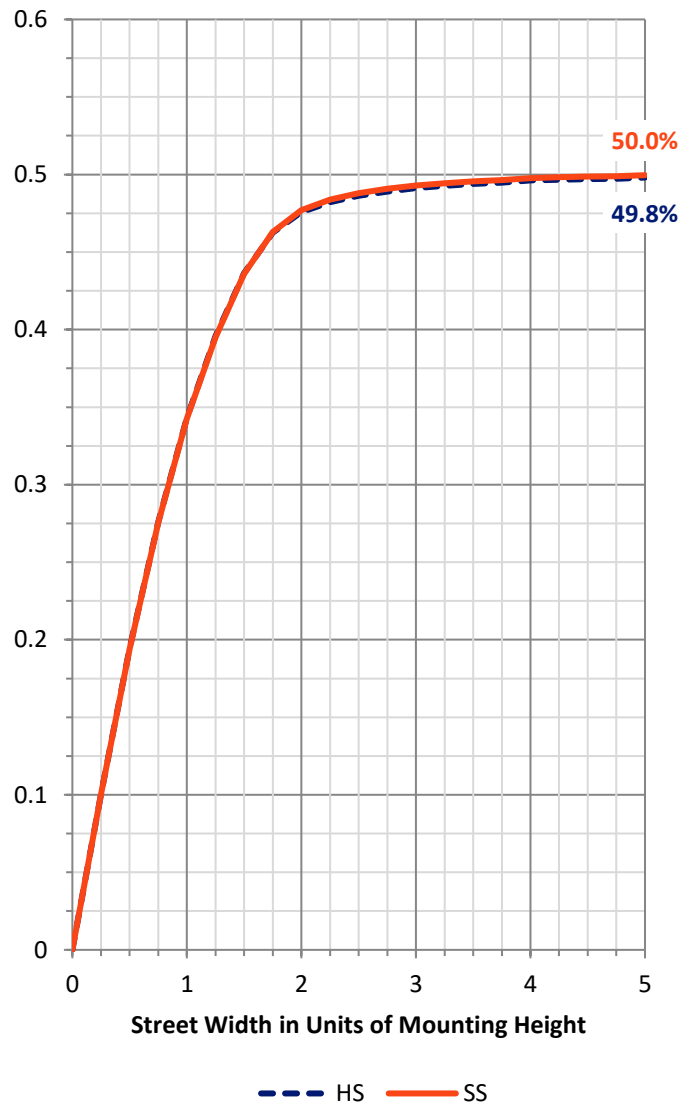
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7487.4	0.0	7487.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7487.4	0.0	7487.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	14974.8	0.0	14974.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	272.7	1.8
10°-20°	810.9	5.4
20°-30°	1415.8	9.5
30°-40°	2261.3	15.1
40°-50°	3080.3	20.6
50°-60°	4165.4	27.8
60°-70°	2284.3	15.3
70°-80°	584.4	3.9
80°-90°	99.7	0.7
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°	14974.8	100.0
0°-180°	14974.8	100.0

Coefficient of Utilization



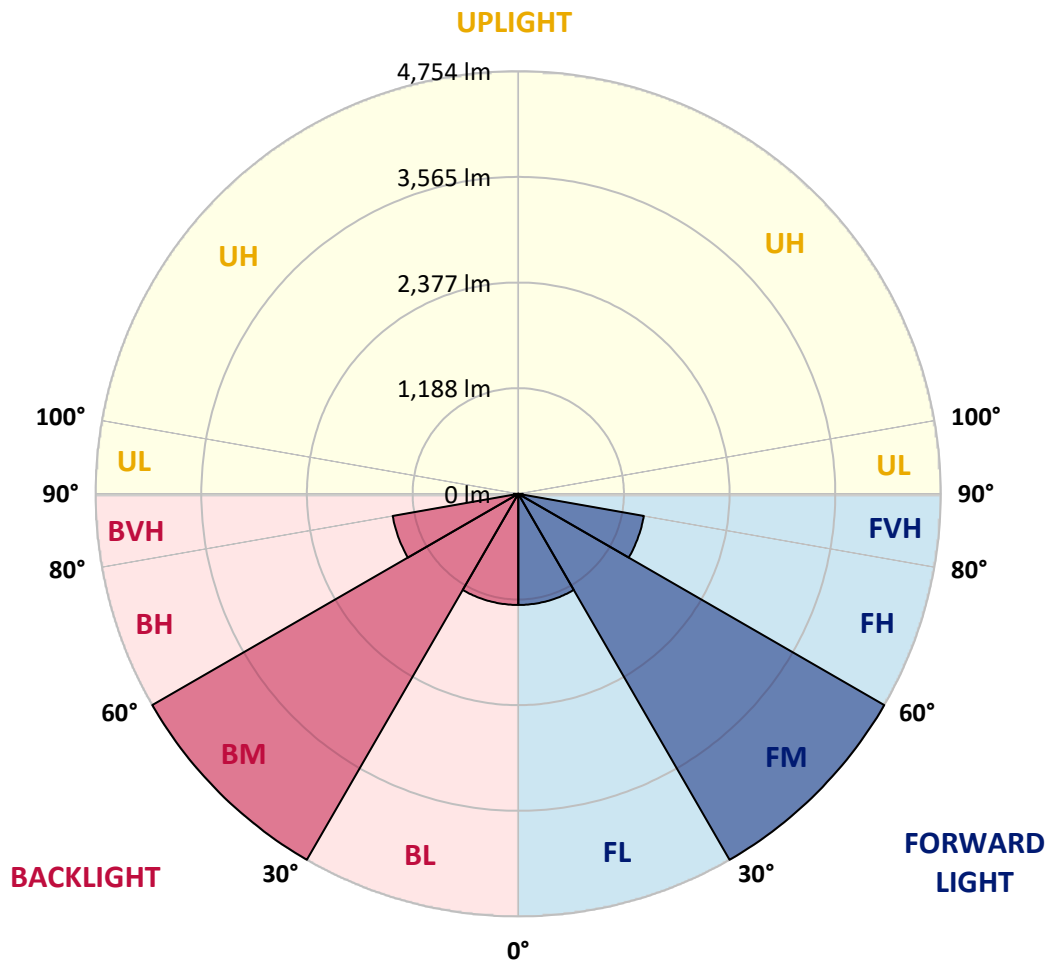
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1249.7	8.3			
FM (30°-60°)	4753.5	31.7			
FH (60°-80°)	1434.4	9.6			G1/1800
FVH (80°-90°)	49.8	0.3			G1/100
BL (0°-30°)	1249.7	8.3	B3/2500		
BM (30°-60°)	4753.5	31.7	B3/5000		
BH (60°-80°)	1434.4	9.6	B3/2500		G1/1800
BVH (80°-90°)	49.8	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5	2892.5
2.5°	2875.1	2896.2	2880.9	2894.3	2892.5	2886.6	2877.1	2871.3	2863.6	2875.1	2856.0
5°	2863.6	2880.9	2898.2	2875.1	2875.1	2863.6	2857.9	2846.4	2846.4	2844.4	2842.5
7.5°	2882.9	2865.5	2857.9	2861.8	2865.5	2840.6	2857.9	2834.8	2815.7	2829.1	2844.4
10°	2865.5	2873.2	2844.4	2857.9	2836.8	2840.6	2829.1	2844.4	2823.3	2823.3	2823.3
12.5°	2882.9	2861.8	2871.3	2861.8	2856.0	2823.3	2838.7	2821.4	2819.5	2838.7	2821.4
15°	2917.3	2882.9	2875.1	2856.0	2861.8	2861.8	2846.4	2848.3	2827.2	2838.7	2842.5
17.5°	2905.8	2886.6	2880.9	2857.9	2877.1	2882.9	2854.0	2834.8	2848.3	2846.4	2844.4
20°	2915.5	2923.1	2917.3	2921.2	2928.9	2913.6	2886.6	2859.8	2842.5	2867.5	2865.5
22.5°	2976.9	2969.2	2965.4	2961.5	2975.0	2990.3	2953.8	2911.6	2911.6	2928.9	2936.6
25°	3026.8	3024.8	3023.0	3040.2	3086.3	3086.3	3040.2	2986.5	2973.0	2984.5	2975.0
27.5°	3099.7	3120.8	3113.1	3143.8	3211.0	3226.4	3164.9	3101.6	3065.2	3051.7	3069.0
30°	3266.7	3241.7	3247.5	3280.2	3339.6	3389.6	3295.5	3228.3	3178.4	3176.5	3184.2
32.5°	3378.0	3397.2	3414.5	3445.2	3539.3	3577.6	3464.4	3355.0	3324.3	3307.0	3312.8
35°	3600.7	3583.4	3579.5	3610.2	3704.3	3767.6	3625.6	3529.7	3489.3	3527.7	3527.7
37.5°	3811.7	3763.8	3727.3	3767.6	3854.0	3861.7	3740.8	3689.0	3667.9	3712.0	3710.1
40°	3911.6	3907.7	3823.3	3846.3	3961.5	3973.0	3859.8	3798.4	3794.5	3852.1	3909.6
42.5°	4015.3	3978.8	3894.3	3909.6	3980.7	3984.5	3877.0	3859.8	3902.0	3957.7	3961.5
45°	4032.5	4001.8	3948.1	3909.6	3961.5	3973.0	3909.6	3921.2	3925.0	3992.2	3992.2
47.5°	4067.1	4063.2	4032.5	4003.7	4013.3	4003.7	3963.4	3980.7	4038.2	4070.9	4055.6
50°	4163.0	4122.8	4153.4	4128.5	4130.4	4157.2	4120.8	4138.1	4126.5	4097.8	4078.6
52.5°	4374.1	4355.0	4381.9	4399.1	4418.3	4479.7	4437.5	4345.4	4259.0	4182.2	4180.3
55°	4683.2	4696.6	4748.5	4836.7	4911.5	5009.4	4806.0	4585.3	4447.0	4326.2	4333.8
57.5°	4974.9	4965.3	5036.3	5237.8	5456.7	5506.5	5107.3	4792.5	4568.0	4491.2	4458.6
59°	4740.7	4786.8	4948.0	5172.6	5516.1	5589.1	5067.0	4623.6	4385.6	4230.2	4257.1
60°	4372.2	4389.5	4533.4	4846.3	5310.7	5435.6	4796.4	4362.6	4046.0	3955.7	3996.0
62.5°	3090.1	3076.7	3180.3	3435.6	3852.1	4021.0	3566.1	3260.9	3061.3	2961.5	2984.5
65°	1643.0	1704.4	1746.6	1905.9	2126.6	2305.1	2117.0	1984.6	1873.2	1790.7	1788.8
67.5°	1109.4	1101.7	1111.3	1147.8	1222.6	1272.5	1268.6	1201.5	1191.9	1176.6	1193.8
70°	934.7	930.9	913.6	913.6	929.0	940.5	953.9	961.6	976.9	996.2	994.2
72.5°	758.2	748.6	737.1	731.2	750.4	756.2	773.5	781.2	794.6	792.6	810.0
75°	501.0	501.0	514.4	529.7	535.5	547.0	548.9	572.0	572.0	575.8	560.4
77.5°	280.2	272.6	282.2	297.5	310.9	332.0	353.1	370.5	380.0	376.2	376.2
80°	163.2	163.2	172.7	190.0	207.3	226.5	241.9	255.2	264.8	261.0	253.3
82.5°	101.8	101.8	111.3	128.6	142.0	153.6	174.7	191.9	203.4	199.6	190.0
85°	51.8	51.8	63.3	74.8	92.1	99.8	97.9	90.2	88.3	78.7	78.7
87.5°	13.5	13.5	19.2	21.1	17.2	19.2	19.2	19.2	19.2	19.2	21.1
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)