

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: STREETWORKS

Report Number: P316291

Luminaire Tested: **GAN-SA7C-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316291
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38739 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

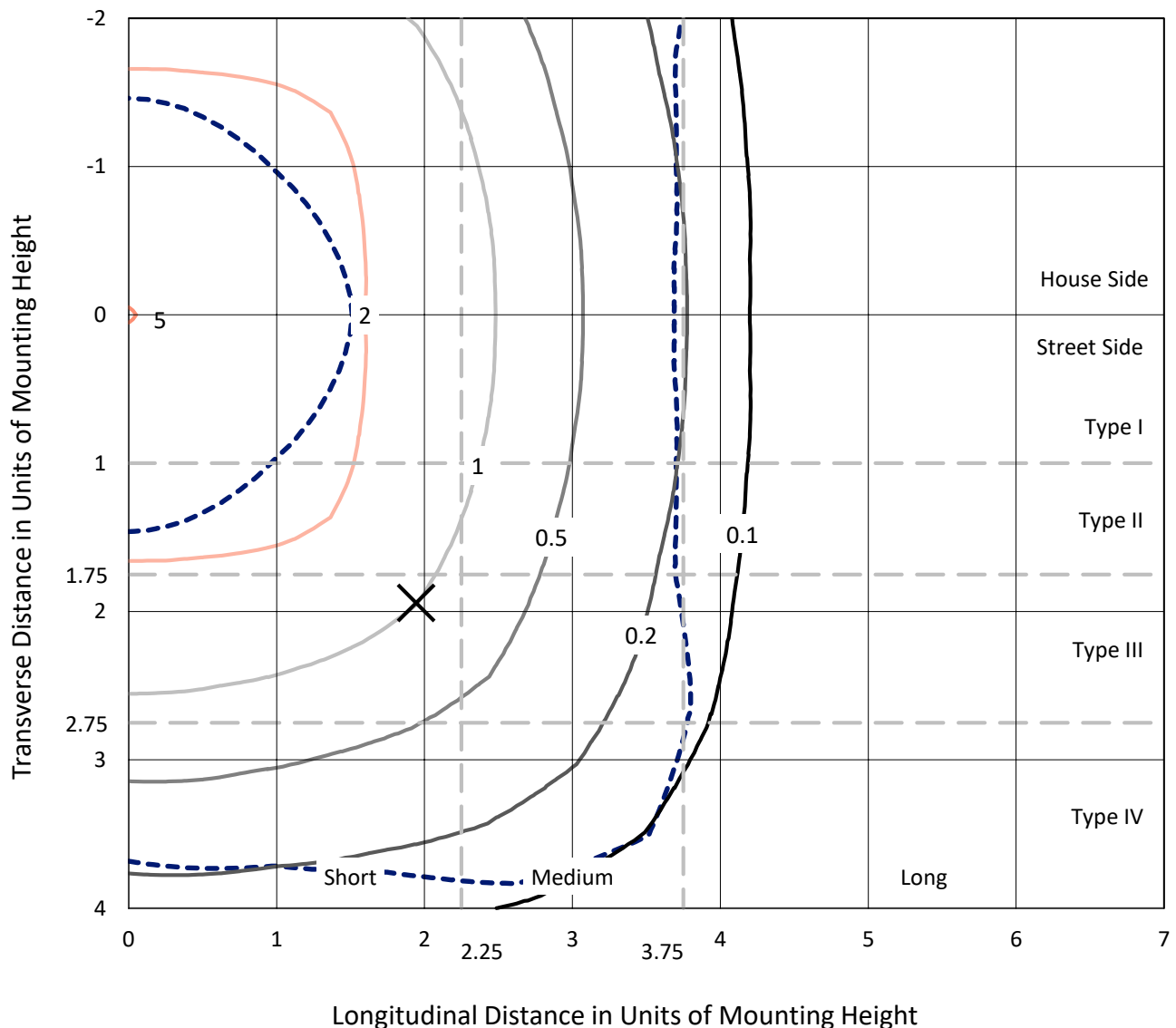
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

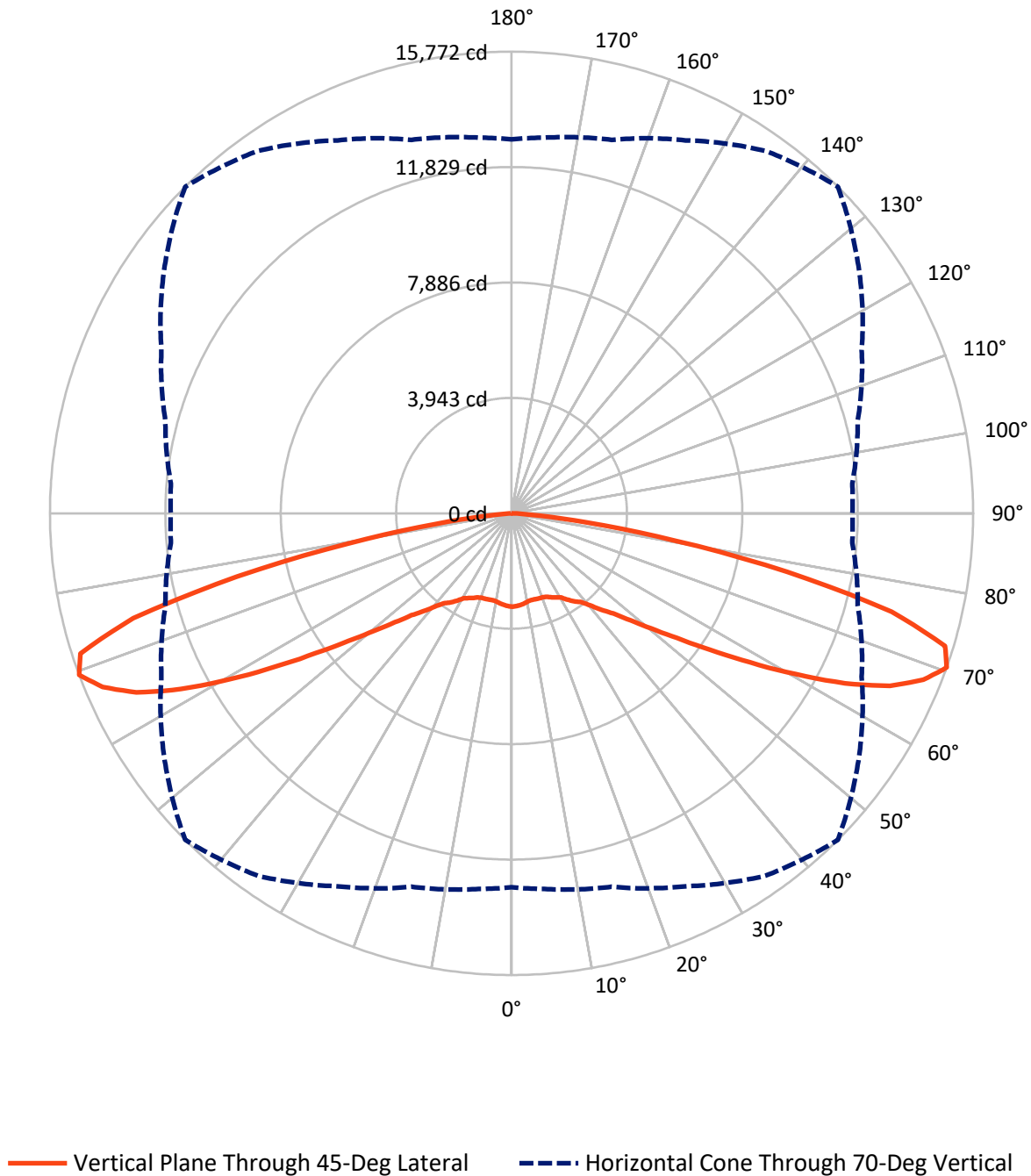
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19369.5	0.0	19369.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19369.5	0.0	19369.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	38739.0	0.0	38739.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.6	0.8
10°-20°	869.2	2.2
20°-30°	1482.0	3.8
30°-40°	2315.6	6.0
40°-50°	3924.4	10.1
50°-60°	7156.5	18.5
60°-70°	12320.4	31.8
70°-80°	9657.2	24.9
80°-90°	716.1	1.8
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°	38739.0	100.0
0°-180°	38739.0	100.0

Coefficient of Utilization



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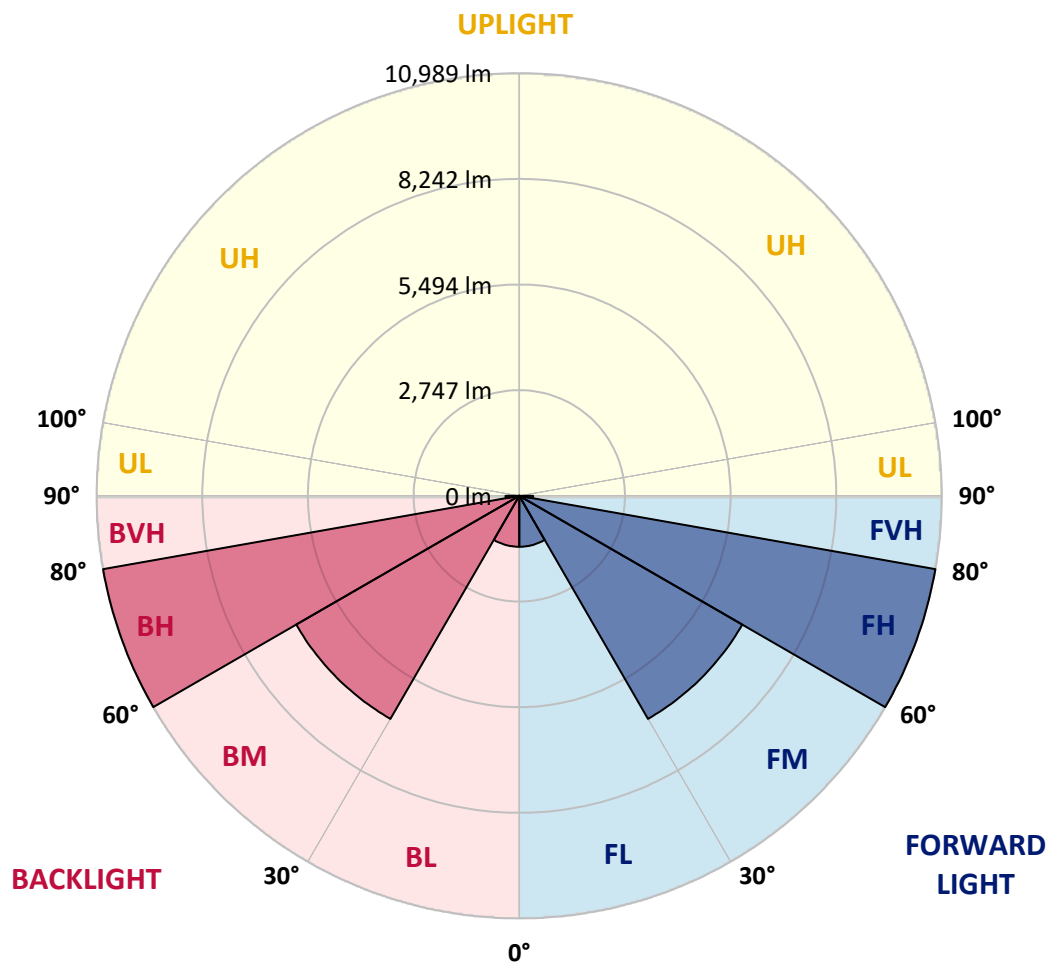
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1324.4	3.4			
FM	(30°-60°)	6698.3	17.3			
FH	(60°-80°)	10988.8	28.4			G4/12000
FVH	(80°-90°)	358.0	0.9			G3/500
BL	(0°-30°)	1324.4	3.4	B3/2500		
BM	(30°-60°)	6698.3	17.3	B4/8500		
BH	(60°-80°)	10988.8	28.4	B5		G4/12000
BVH	(80°-90°)	358.0	0.9			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°	3188.2	3188.2	3188.2	3188.2	3188.2	3188.2	3188.2	3188.2	3188.2	3188.2	3188.2
2.5°	3174.1	3178.0	3174.1	3176.7	3170.3	3172.8	3172.8	3172.8	3171.6	3172.8	3170.3
5°	3145.9	3148.5	3143.4	3145.9	3142.1	3145.9	3147.2	3145.9	3143.4	3144.7	3139.5
7.5°	3103.6	3106.2	3102.4	3106.2	3101.1	3107.5	3106.2	3102.4	3098.5	3098.5	3093.4
10°	3080.6	3081.9	3071.6	3067.8	3056.2	3058.8	3062.6	3066.5	3070.3	3078.0	3076.7
12.5°	3081.9	3081.9	3066.5	3049.8	3033.2	3037.0	3043.4	3057.5	3072.9	3087.0	3088.3
15°	3094.7	3093.4	3070.3	3043.4	3031.9	3043.4	3047.3	3056.2	3080.6	3104.9	3106.2
17.5°	3103.6	3103.6	3067.8	3037.0	3035.7	3053.7	3052.4	3056.2	3083.1	3119.0	3120.3
20°	3120.3	3120.3	3074.2	3040.9	3040.9	3060.1	3061.4	3067.8	3094.7	3134.4	3140.8
22.5°	3157.5	3158.8	3110.1	3083.1	3085.7	3097.2	3101.1	3111.3	3135.7	3179.3	3186.9
25°	3210.0	3212.6	3162.6	3147.2	3156.2	3178.0	3175.4	3183.1	3210.0	3252.3	3260.0
27.5°	3283.1	3276.6	3230.5	3224.1	3233.1	3248.5	3247.2	3248.5	3270.2	3308.7	3317.7
30°	3377.9	3375.3	3342.0	3345.8	3342.0	3336.9	3338.2	3348.4	3359.9	3390.7	3399.7
32.5°	3470.1	3472.7	3452.2	3471.4	3499.6	3518.8	3489.4	3461.2	3448.4	3465.0	3472.7
35°	3636.7	3643.1	3611.1	3598.3	3636.7	3693.1	3609.8	3563.7	3589.3	3611.1	3617.5
37.5°	3919.9	3923.8	3870.0	3818.7	3790.5	3844.3	3761.0	3764.9	3854.6	3895.6	3894.3
40°	4242.9	4244.1	4208.3	4163.4	4114.7	4127.5	4094.2	4104.5	4163.4	4200.6	4210.8
42.5°	4627.3	4623.4	4567.1	4503.0	4488.9	4501.7	4445.3	4437.6	4505.5	4572.2	4573.5
45°	5125.8	5116.8	5043.8	4973.3	4905.4	4877.2	4863.1	4900.2	4993.8	5055.3	5056.6
47.5°	5662.7	5638.3	5599.9	5543.5	5484.6	5456.4	5433.3	5451.2	5519.2	5543.5	5546.1
50°	6215.0	6220.1	6227.8	6206.0	6184.2	6175.3	6115.0	6080.4	6100.9	6056.1	6049.7
52.5°	6869.8	6880.1	6954.4	7017.2	7054.3	7073.6	6959.5	6840.3	6773.7	6686.6	6660.9
55°	7642.5	7659.2	7768.1	7942.4	8121.8	8216.6	8010.3	7787.3	7581.0	7418.3	7365.7
57.5°	8503.6	8533.1	8683.0	9017.5	9385.3	9609.5	9261.0	8856.0	8457.5	8223.0	8182.0
60°	9513.4	9541.6	9749.2	10228.5	10824.3	11161.4	10633.4	9970.9	9475.0	9250.7	9175.1
62.5°	10715.4	10718.0	10973.0	11533.0	12319.8	12788.8	12073.7	11188.3	10677.0	10406.6	10333.5
65°	12008.4	12014.8	12278.8	12883.6	13697.3	14207.3	13400.0	12477.4	11852.0	11453.5	11397.1
67.5°	12922.1	12949.0	13227.0	13954.9	14716.1	15176.1	14340.6	13297.5	12574.8	12099.4	12052.0
70°	12776.0	12881.0	13207.8	14057.4	15115.9	15772.0	14493.1	13200.1	12246.7	11685.5	11645.7
72.5°	11142.1	11343.3	11779.0	12893.9	14586.6	15490.1	13661.4	11822.6	10743.6	10265.6	10193.9
75°	7587.4	7914.2	8571.6	10179.8	12462.0	13411.6	11500.9	9426.3	8411.4	7750.2	7701.5
77.5°	3383.0	3457.3	4290.3	6141.9	8599.8	9631.3	8356.3	6166.3	4628.6	3691.8	3494.5
80°	943.1	954.7	1273.8	2287.4	4304.4	5658.8	4620.9	2402.7	1350.6	952.1	897.0
82.5°	299.9	325.5	397.2	593.3	1446.7	2582.1	1485.2	640.7	456.2	363.9	328.0
85°	146.1	144.8	201.2	240.9	369.1	571.5	393.4	297.3	260.1	173.0	156.3
87.5°	61.5	62.8	93.5	84.6	107.6	92.3	126.9	133.3	139.7	76.9	66.6
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)