

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: P316073

Luminaire Tested: **GAN-SA9A-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316073
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-SA9A-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36698 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

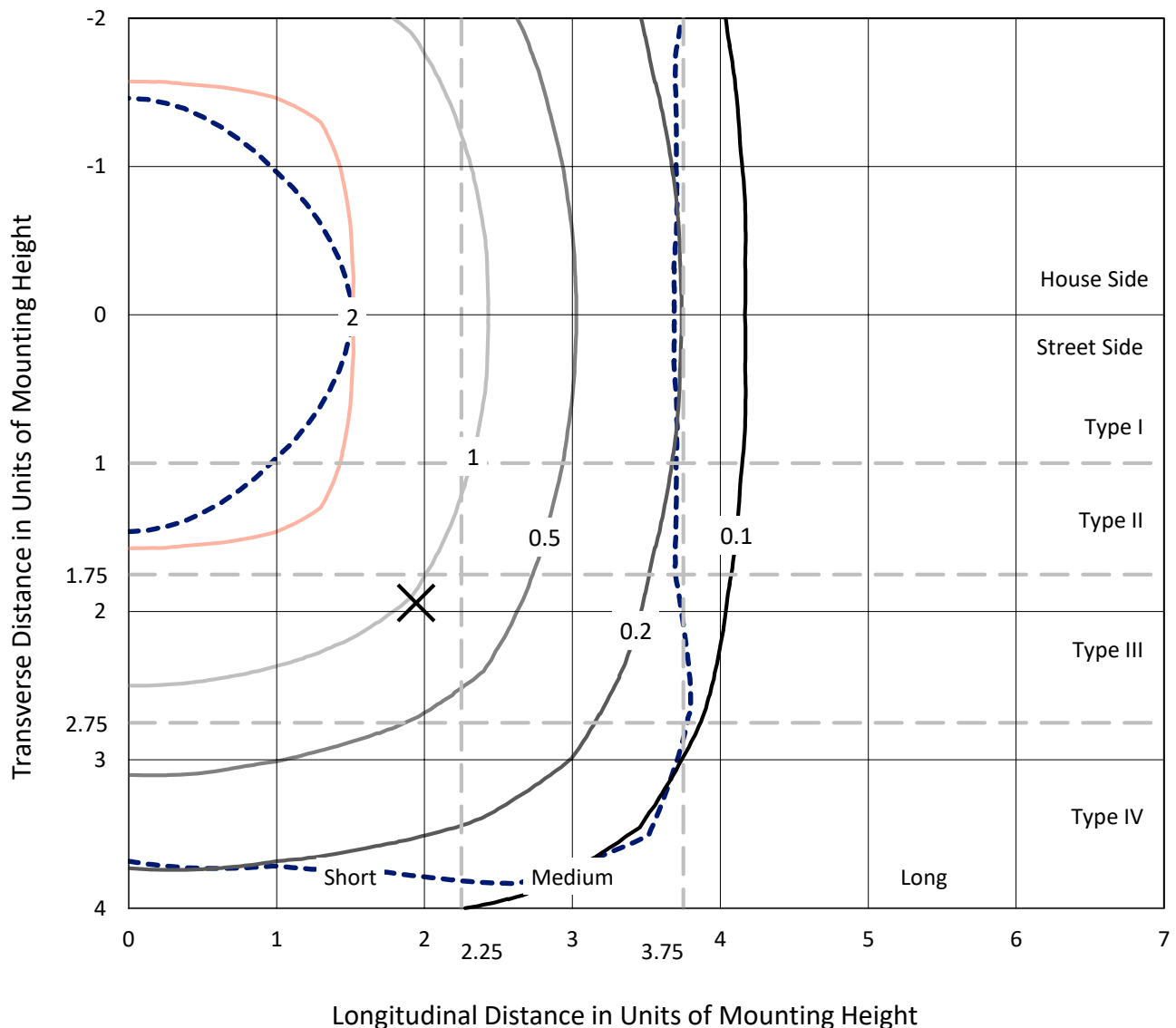
Input Watts (W): 290
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

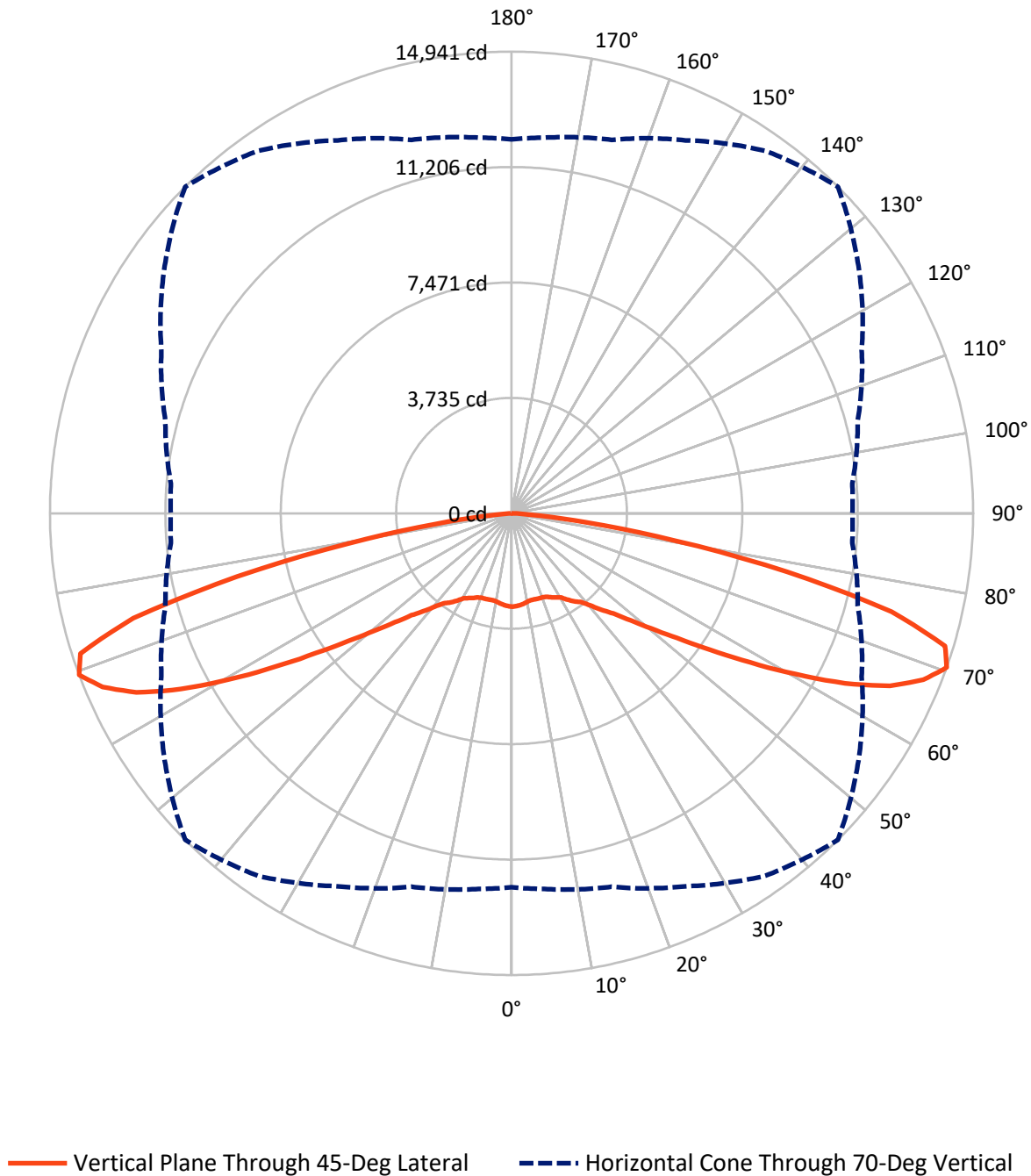
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 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	18349.0	0.0	18349.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18349.0	0.0	18349.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	36698.0	0.0	36698.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.9	0.8
10°-20°	823.4	2.2
20°-30°	1403.9	3.8
30°-40°	2193.6	6.0
40°-50°	3717.7	10.1
50°-60°	6779.5	18.5
60°-70°	11671.3	31.8
70°-80°	9148.4	24.9
80°-90°	678.3	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°	36698.0	100.0
0°-180°	36698.0	100.0

Coefficient of Utilization



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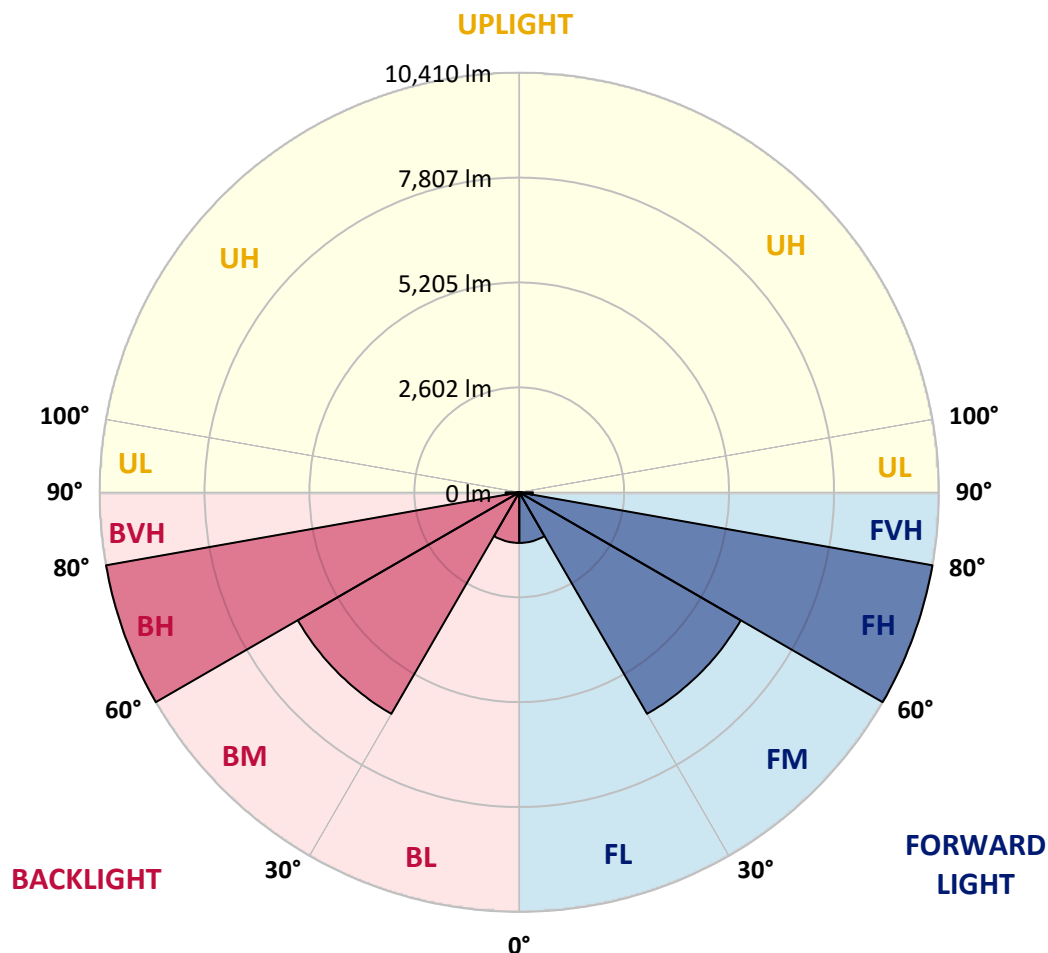
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1254.6	3.4			
FM	(30°-60°)	6345.4	17.3			
FH	(60°-80°)	10409.9	28.4			G4/12000
FVH	(80°-90°)	339.2	0.9			G3/500
BL	(0°-30°)	1254.6	3.4	B3/2500		
BM	(30°-60°)	6345.4	17.3	B4/8500		
BH	(60°-80°)	10409.9	28.4	B5		G4/12000
BVH	(80°-90°)	339.2	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°	3020.3	3020.3	3020.3	3020.3	3020.3	3020.3	3020.3	3020.3	3020.3	3020.3	3020.3
2.5°	3006.9	3010.5	3006.9	3009.3	3003.3	3005.7	3005.7	3005.7	3004.5	3005.7	3003.3
5°	2980.2	2982.6	2977.8	2980.2	2976.5	2980.2	2981.4	2980.2	2977.8	2979.0	2974.1
7.5°	2940.1	2942.6	2938.9	2942.6	2937.7	2943.8	2942.6	2938.9	2935.3	2935.3	2930.4
10°	2918.3	2919.5	2909.8	2906.1	2895.2	2897.6	2901.3	2904.9	2908.6	2915.9	2914.6
12.5°	2919.5	2919.5	2904.9	2889.1	2873.4	2877.0	2883.1	2896.4	2911.0	2924.4	2925.6
15°	2931.6	2930.4	2908.6	2883.1	2872.2	2883.1	2886.7	2895.2	2918.3	2941.3	2942.6
17.5°	2940.1	2940.1	2906.1	2877.0	2875.8	2892.8	2891.6	2895.2	2920.7	2954.7	2955.9
20°	2955.9	2955.9	2912.2	2880.6	2880.6	2898.9	2900.1	2906.1	2931.6	2969.3	2975.3
22.5°	2991.1	2992.3	2946.2	2920.7	2923.1	2934.1	2937.7	2947.4	2970.5	3011.8	3019.0
25°	3040.9	3043.3	2996.0	2981.4	2989.9	3010.5	3008.1	3015.4	3040.9	3080.9	3088.2
27.5°	3110.1	3104.0	3060.3	3054.2	3062.7	3077.3	3076.1	3077.3	3097.9	3134.4	3142.9
30°	3199.9	3197.5	3165.9	3169.6	3165.9	3161.1	3162.3	3172.0	3182.9	3212.1	3220.5
32.5°	3287.3	3289.7	3270.3	3288.5	3315.2	3333.4	3305.5	3278.8	3266.7	3282.5	3289.7
35°	3445.1	3451.2	3420.8	3408.7	3445.1	3498.5	3419.6	3375.9	3400.2	3420.8	3426.9
37.5°	3713.4	3717.0	3666.1	3617.5	3590.8	3641.8	3562.9	3566.5	3651.5	3690.3	3689.1
40°	4019.3	4020.5	3986.5	3944.0	3897.9	3910.1	3878.5	3888.2	3944.0	3979.3	3989.0
42.5°	4383.5	4379.8	4326.4	4265.7	4252.4	4264.5	4211.1	4203.8	4268.2	4331.3	4332.5
45°	4855.7	4847.2	4778.0	4711.3	4646.9	4620.2	4606.9	4642.1	4730.7	4788.9	4790.2
47.5°	5364.3	5341.3	5304.9	5251.4	5195.6	5168.9	5147.1	5164.0	5228.4	5251.4	5253.9
50°	5887.5	5892.4	5899.7	5879.0	5858.4	5849.9	5792.9	5760.1	5779.5	5737.0	5730.9
52.5°	6507.9	6517.6	6588.0	6647.5	6682.7	6700.9	6592.8	6479.9	6416.8	6334.3	6310.0
55°	7239.9	7255.6	7358.8	7523.9	7693.9	7783.7	7588.3	7377.0	7181.6	7027.4	6977.7
57.5°	8055.6	8083.5	8225.6	8542.4	8890.8	9103.2	8773.1	8389.4	8011.9	7789.8	7750.9
60°	9012.2	9038.9	9235.6	9689.6	10254.0	10573.3	10073.2	9445.6	8975.8	8763.3	8691.7
62.5°	10150.9	10153.3	10394.9	10925.3	11670.7	12115.0	11437.6	10598.8	10114.4	9858.3	9789.1
65°	11375.7	11381.8	11631.8	12204.8	12975.7	13458.8	12694.0	11820.0	11227.6	10850.1	10796.7
67.5°	12241.2	12266.7	12530.2	13219.7	13940.7	14376.5	13585.1	12596.9	11912.3	11461.9	11417.0
70°	12102.9	12202.4	12511.9	13316.8	14319.5	14941.0	13729.5	12504.7	11601.5	11069.8	11032.2
72.5°	10555.1	10745.7	11158.4	12214.5	13818.1	14673.9	12941.7	11199.7	10177.6	9724.8	9656.8
75°	7187.7	7497.2	8120.0	9643.4	11805.4	12705.0	10895.0	8929.6	7968.2	7341.8	7295.7
77.5°	3204.8	3275.2	4064.2	5818.4	8146.7	9123.9	7916.0	5841.4	4384.7	3497.3	3310.4
80°	893.5	904.4	1206.6	2166.9	4077.6	5360.7	4377.4	2276.1	1279.5	901.9	849.7
82.5°	284.1	308.3	376.3	562.0	1370.5	2446.1	1406.9	607.0	432.2	344.8	310.8
85°	138.4	137.2	190.6	228.2	349.6	541.4	372.7	281.6	246.4	163.9	148.1
87.5°	58.3	59.5	88.6	80.1	102.0	87.4	120.2	126.2	132.3	72.8	63.1
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)