

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: P316082

Luminaire Tested: **GAN-SA8B-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316082
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-SA8B-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40341 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

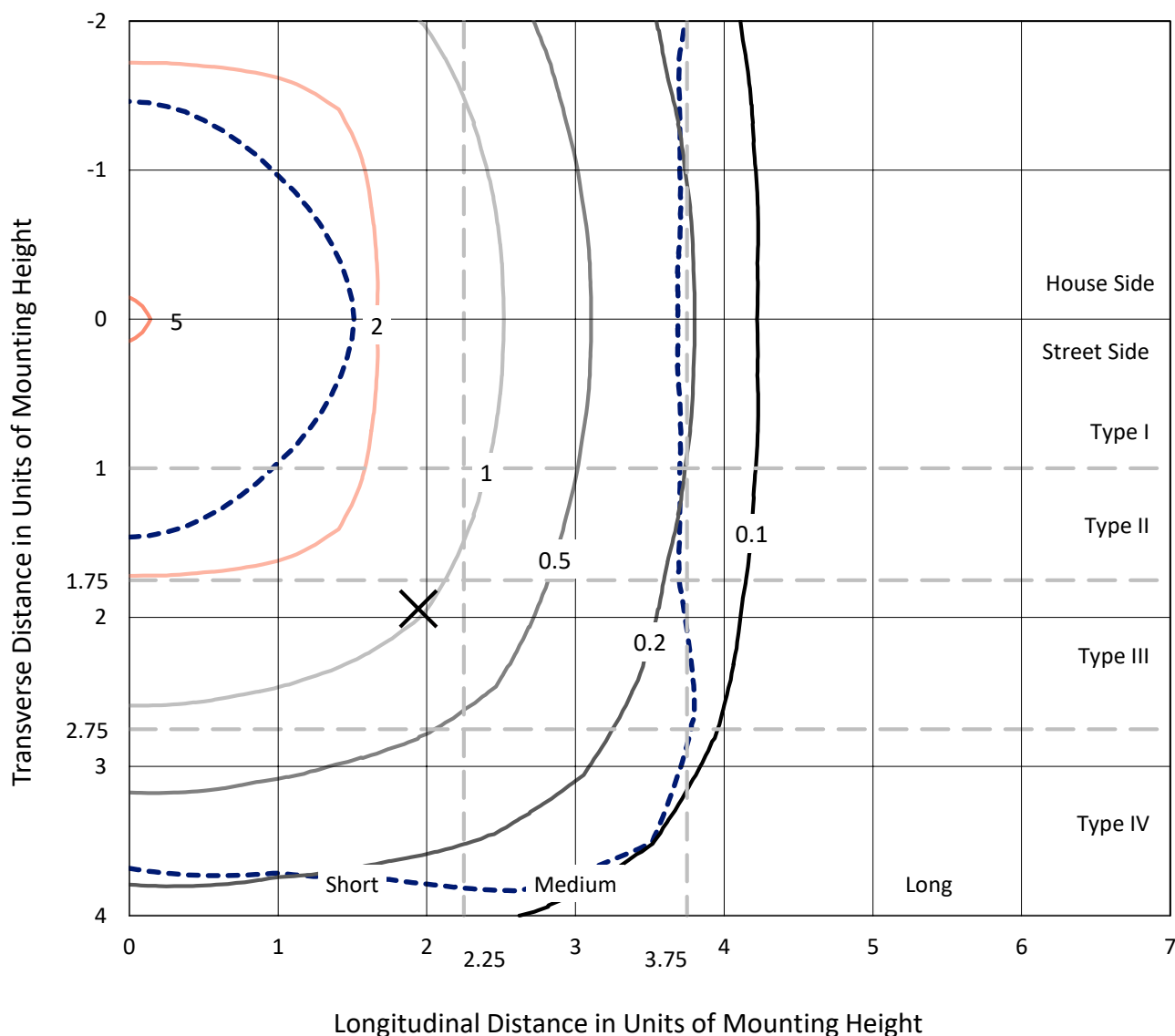
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

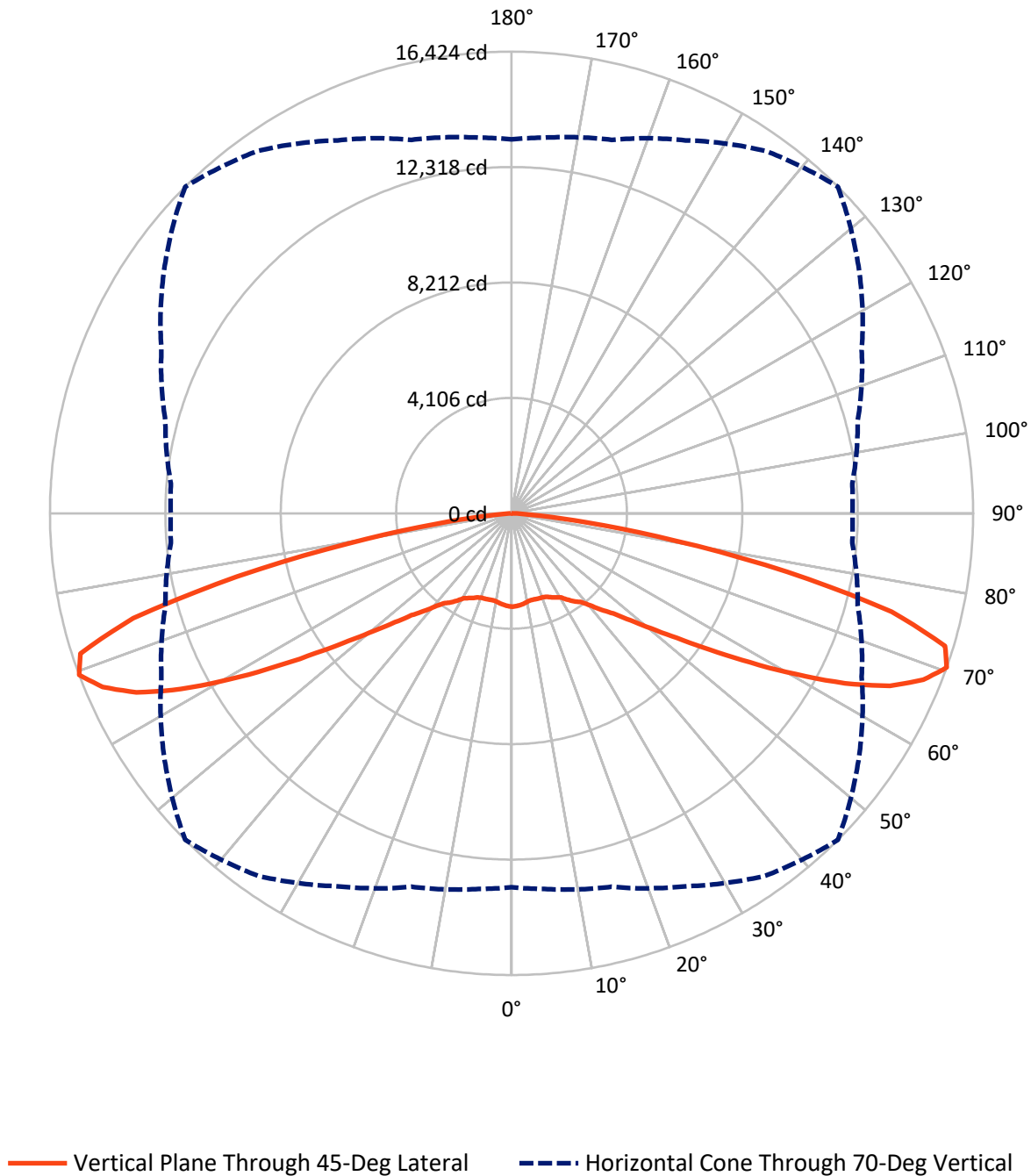
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	20170.5	0.0	20170.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	20170.5	0.0	20170.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	40341.0	0.0	40341.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.9	0.8
10°-20°	905.2	2.2
20°-30°	1543.2	3.8
30°-40°	2411.4	6.0
40°-50°	4086.7	10.1
50°-60°	7452.5	18.5
60°-70°	12829.9	31.8
70°-80°	10056.6	24.9
80°-90°	745.7	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°	40341.0	100.0
0°-180°	40341.0	100.0

Coefficient of Utilization



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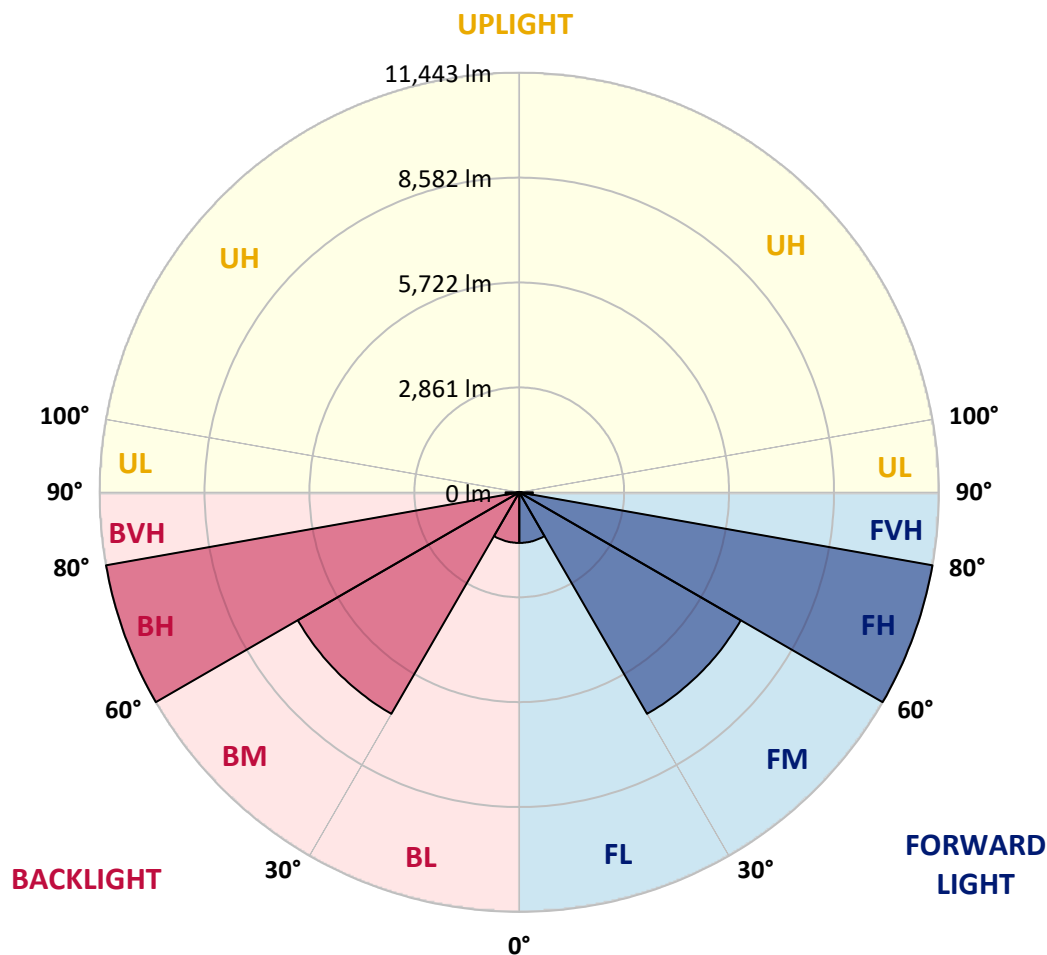
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1379.1	3.4			
FM	(30°-60°)	6975.3	17.3			
FH	(60°-80°)	11443.2	28.4			G4/12000
FVH	(80°-90°)	372.8	0.9			G3/500
BL	(0°-30°)	1379.1	3.4	B3/2500		
BM	(30°-60°)	6975.3	17.3	B4/8500		
BH	(60°-80°)	11443.2	28.4	B5		G4/12000
BVH	(80°-90°)	372.8	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°	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1	3320.1
2.5°	3305.4	3309.4	3305.4	3308.1	3301.4	3304.1	3304.1	3304.1	3302.7	3304.1	3301.4
5°	3276.0	3278.7	3273.4	3276.0	3272.0	3276.0	3277.4	3276.0	3273.4	3274.7	3269.4
7.5°	3232.0	3234.7	3230.7	3234.7	3229.3	3236.0	3234.7	3230.7	3226.7	3226.7	3221.3
10°	3208.0	3209.3	3198.6	3194.6	3182.6	3185.3	3189.3	3193.3	3197.3	3205.3	3204.0
12.5°	3209.3	3209.3	3193.3	3176.0	3158.6	3162.6	3169.3	3184.0	3200.0	3214.6	3216.0
15°	3222.7	3221.3	3197.3	3169.3	3157.3	3169.3	3173.3	3182.6	3208.0	3233.3	3234.7
17.5°	3232.0	3232.0	3194.6	3162.6	3161.3	3180.0	3178.6	3182.6	3210.6	3248.0	3249.3
20°	3249.3	3249.3	3201.3	3166.6	3166.6	3186.6	3188.0	3194.6	3222.7	3264.0	3270.7
22.5°	3288.0	3289.4	3238.7	3210.6	3213.3	3225.3	3229.3	3240.0	3265.4	3310.7	3318.7
25°	3342.8	3345.4	3293.4	3277.4	3286.7	3309.4	3306.7	3314.7	3342.8	3386.8	3394.8
27.5°	3418.8	3412.1	3364.1	3357.4	3366.8	3382.8	3381.5	3382.8	3405.5	3445.5	3454.8
30°	3517.6	3514.9	3480.2	3484.2	3480.2	3474.9	3476.2	3486.9	3498.9	3530.9	3540.3
32.5°	3613.6	3616.3	3595.0	3615.0	3644.3	3664.4	3633.7	3604.3	3591.0	3608.3	3616.3
35°	3787.1	3793.8	3760.4	3747.1	3787.1	3845.8	3759.1	3711.1	3737.7	3760.4	3767.1
37.5°	4082.0	4086.0	4030.0	3976.6	3947.3	4003.3	3916.6	3920.6	4014.0	4056.7	4055.3
40°	4418.3	4419.6	4382.3	4335.6	4284.9	4298.2	4263.5	4274.2	4335.6	4374.3	4384.9
42.5°	4818.6	4814.6	4755.9	4689.2	4674.5	4687.9	4629.1	4621.1	4691.9	4761.3	4762.6
45°	5337.7	5328.4	5252.3	5178.9	5108.2	5078.9	5064.2	5102.9	5200.3	5264.3	5265.7
47.5°	5896.9	5871.5	5831.5	5772.8	5711.4	5682.0	5658.0	5676.7	5747.4	5772.8	5775.4
50°	6472.0	6477.3	6485.3	6462.7	6440.0	6430.6	6367.9	6331.9	6353.2	6306.5	6299.9
52.5°	7153.9	7164.6	7242.0	7307.4	7346.1	7366.1	7247.3	7123.2	7053.8	6963.1	6936.4
55°	7958.6	7975.9	8089.3	8270.8	8457.6	8556.4	8341.5	8109.4	7894.5	7725.0	7670.3
57.5°	8855.3	8886.0	9042.1	9390.4	9773.4	10006.9	9643.9	9222.3	8807.3	8563.1	8520.4
60°	9906.8	9936.2	10152.4	10651.4	11272.0	11622.9	11073.1	10383.2	9866.8	9633.3	9554.5
62.5°	11158.5	11161.2	11426.8	12009.9	12829.2	13317.6	12573.0	11650.9	11118.5	10836.9	10760.9
65°	12505.0	12511.6	12786.5	13416.4	14263.8	14794.9	13954.2	12993.4	12342.2	11927.2	11868.4
67.5°	13456.4	13484.4	13774.0	14532.0	15324.6	15803.7	14933.6	13847.4	13094.8	12599.7	12550.3
70°	13304.3	13413.7	13754.0	14638.7	15741.0	16424.2	15092.4	13746.0	12753.2	12168.7	12127.3
72.5°	11602.9	11812.4	12266.1	13427.1	15189.9	16130.6	14226.4	12311.5	11187.9	10690.1	10615.4
75°	7901.2	8241.5	8926.0	10600.7	12977.4	13966.2	11976.5	9816.1	8759.2	8070.7	8019.9
77.5°	3522.9	3600.3	4467.7	6395.9	8955.4	10029.6	8701.8	6421.3	4820.0	3844.5	3639.0
80°	982.1	994.2	1326.4	2382.0	4482.4	5892.9	4812.0	2502.1	1406.5	991.5	934.1
82.5°	312.3	338.9	413.7	617.8	1506.6	2688.9	1546.6	667.2	475.1	379.0	341.6
85°	152.1	150.8	209.5	250.9	384.3	595.2	409.7	309.6	270.9	180.1	162.8
87.5°	64.1	65.4	97.4	88.1	112.1	96.1	132.1	138.8	145.5	80.1	69.4
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)