

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: P316399

Luminaire Tested: **GAN-SA5B-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5B-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25092 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 210
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

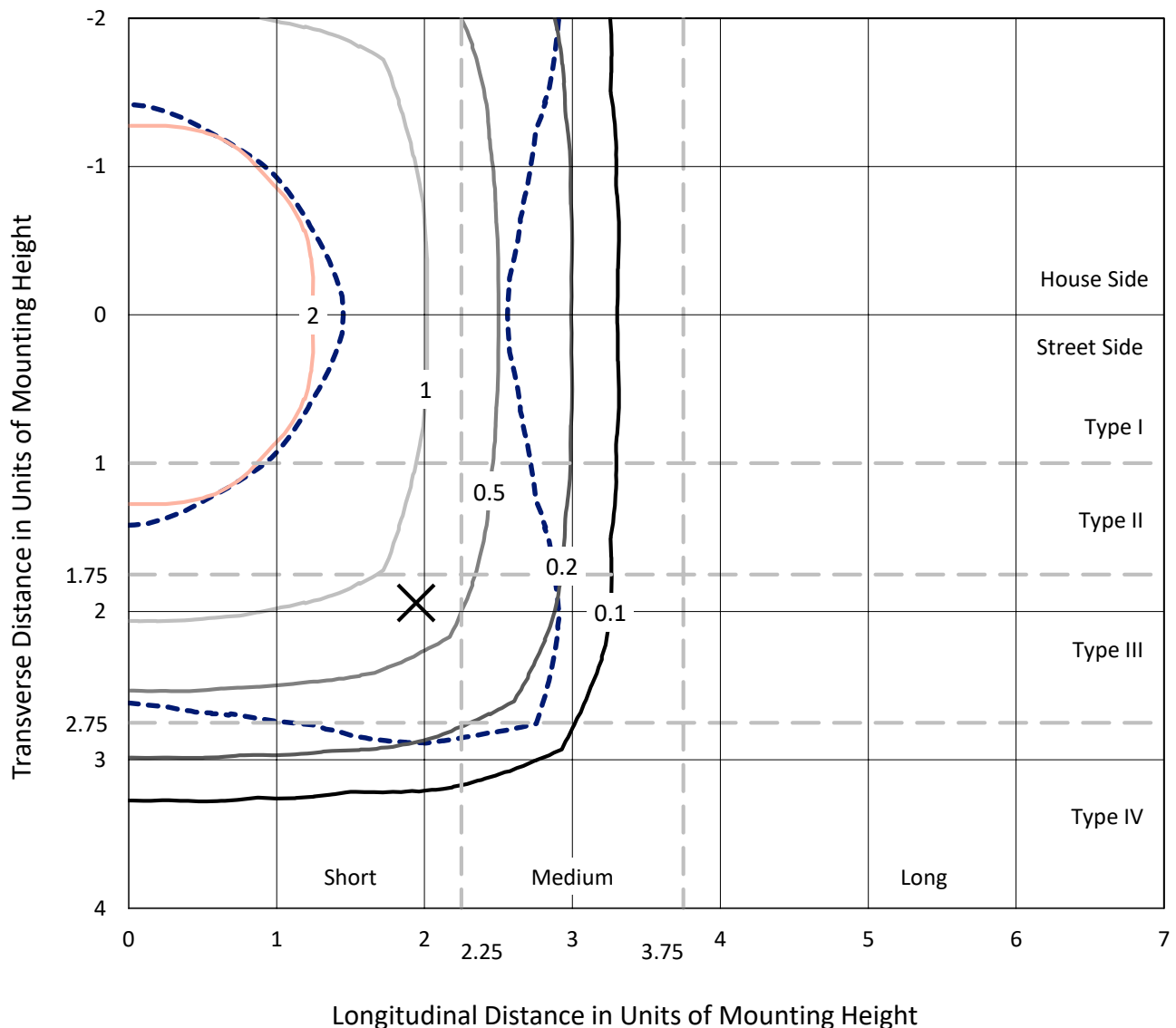


REPORT NUMBER: P316399

CATALOG NUMBER: GAN-SA5B-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

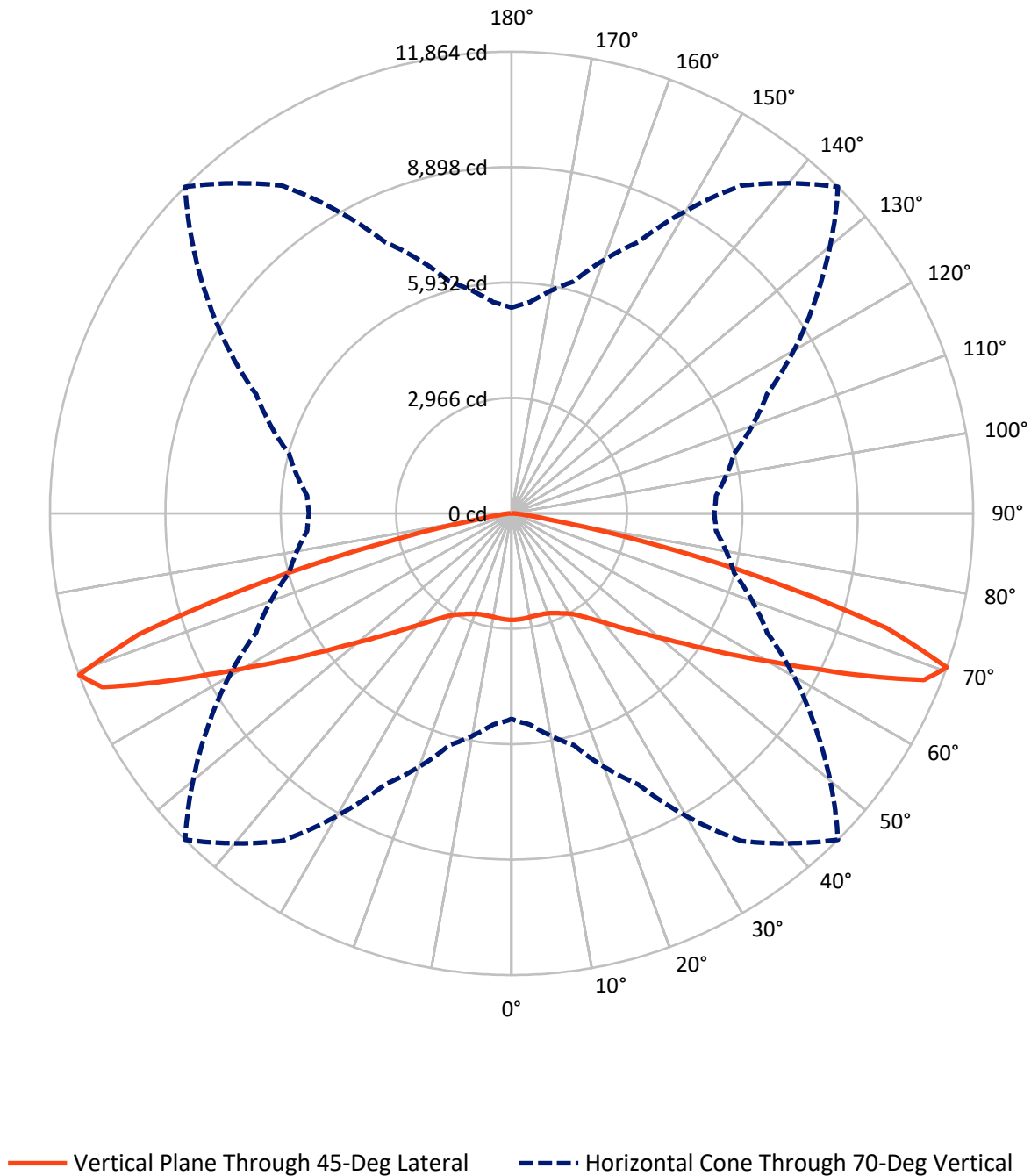
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type V - Short - N/A

REPORT NUMBER: P316399
CATALOG NUMBER: GAN-SA5B-727-U-5MQ

Luminous Intensity Polar Plot



REPORT NUMBER: P316399

CATALOG NUMBER: GAN-SA5B-727-U-5MQ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12546.0	0.0	12546.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	12546.0	0.0	12546.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	25092.0	0.0	25092.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.6	1.0
10°-20°	762.0	3.0
20°-30°	1297.1	5.2
30°-40°	2057.2	8.2
40°-50°	3347.7	13.3
50°-60°	5519.8	22.0
60°-70°	8103.2	32.3
70°-80°	3583.2	14.3
80°-90°	162.3	0.6
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°	25092.0	100.0
0°-180°	25092.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316399

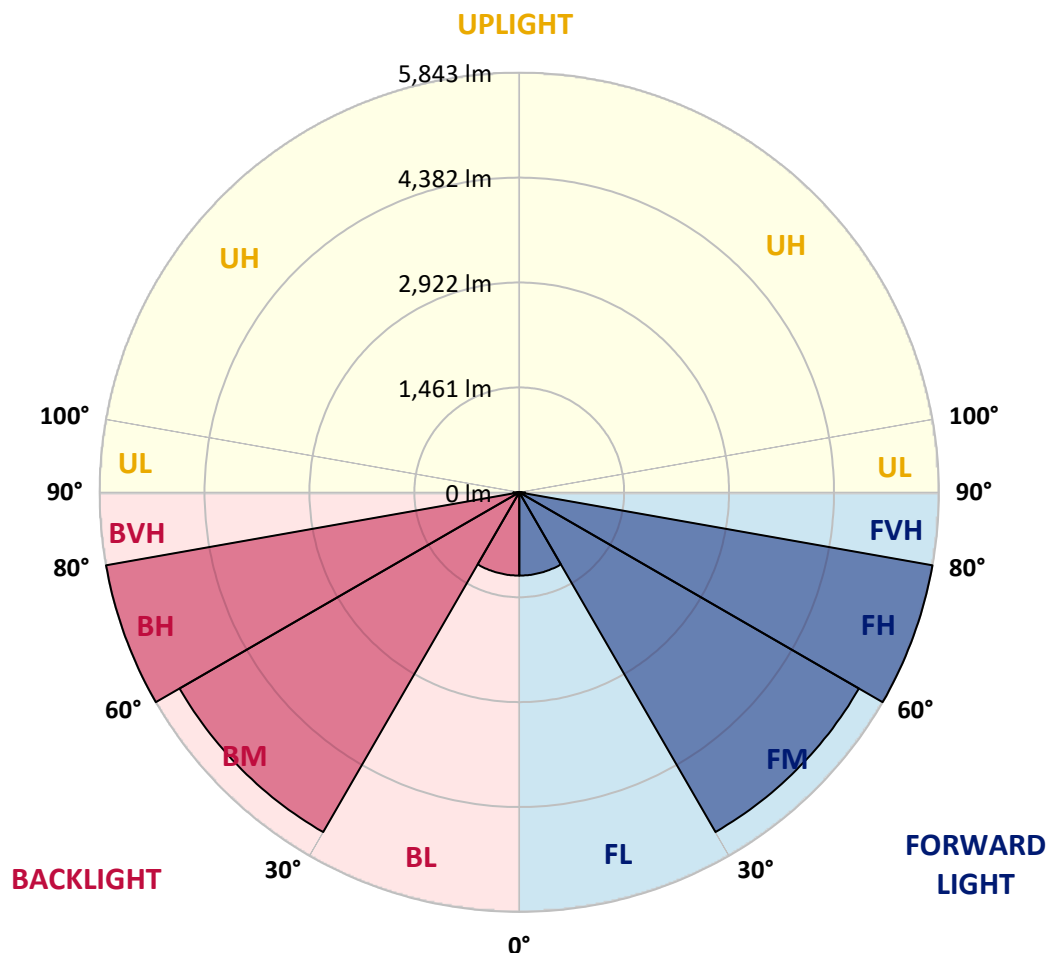
CATALOG NUMBER: GAN-SA5B-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1159.3	4.6			
FM	(30°-60°)	5462.4	21.8			
FH	(60°-80°)	5843.2	23.3			G3/7500
FVH	(80°-90°)	81.1	0.3			G1/100
BL	(0°-30°)	1159.3	4.6	B3/2500		
BM	(30°-60°)	5462.4	21.8	B4/8500		
BH	(60°-80°)	5843.2	23.3	B5		G3/7500
BVH	(80°-90°)	81.1	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short



REPORT NUMBER: P316399

CATALOG NUMBER: GAN-SA5B-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2740.4	2740.4	2740.4	2740.4	2740.4	2740.4	2740.4	2740.4	2740.4	2740.4	2740.4
2.5°	2736.3	2733.8	2739.6	2738.8	2733.8	2734.6	2734.6	2737.1	2737.1	2735.5	2735.5
5°	2726.3	2724.7	2731.3	2731.3	2726.3	2728.0	2729.6	2732.1	2731.3	2729.6	2728.8
7.5°	2713.9	2713.0	2719.7	2719.7	2716.4	2718.0	2716.4	2717.2	2715.5	2713.9	2711.4
10°	2693.1	2694.8	2700.6	2702.2	2702.2	2703.1	2701.4	2697.3	2694.8	2692.3	2689.8
12.5°	2674.0	2673.2	2681.5	2685.6	2692.3	2699.7	2694.8	2683.1	2678.2	2673.2	2671.5
15°	2661.5	2662.4	2670.7	2678.2	2689.8	2705.6	2699.7	2681.5	2671.5	2665.7	2664.0
17.5°	2659.1	2660.7	2671.5	2684.8	2697.3	2714.7	2711.4	2693.1	2676.5	2665.7	2663.2
20°	2664.9	2665.7	2682.3	2701.4	2723.0	2739.6	2732.1	2712.2	2689.8	2673.2	2669.0
22.5°	2675.7	2679.0	2699.7	2729.6	2762.9	2785.3	2776.1	2742.1	2707.2	2686.5	2680.6
25°	2709.7	2710.5	2738.8	2779.5	2819.3	2845.1	2834.3	2786.1	2741.3	2718.0	2710.5
27.5°	2780.3	2782.8	2811.0	2858.4	2892.4	2909.0	2902.4	2863.3	2825.1	2800.2	2802.7
30°	2882.4	2885.8	2917.3	2969.6	2990.4	2994.6	2992.9	2974.6	2939.7	2906.5	2909.0
32.5°	3007.0	3008.7	3051.0	3098.4	3115.0	3118.3	3115.0	3098.4	3056.8	3012.0	3014.5
35°	3167.3	3172.3	3213.0	3258.6	3271.9	3278.6	3272.7	3251.2	3208.0	3164.0	3162.3
37.5°	3364.9	3365.8	3408.1	3455.4	3472.1	3473.7	3467.1	3453.0	3399.0	3359.1	3356.6
40°	3594.1	3597.4	3647.3	3697.9	3704.6	3697.1	3706.2	3697.9	3642.3	3596.6	3604.1
42.5°	3873.2	3880.6	3940.4	3990.2	3971.1	3967.0	3972.8	3975.3	3930.5	3874.8	3869.8
45°	4197.9	4204.5	4279.2	4319.1	4306.6	4279.2	4290.9	4310.8	4248.5	4179.6	4186.2
47.5°	4568.2	4584.8	4664.6	4701.9	4671.2	4633.8	4656.3	4686.1	4613.1	4527.5	4523.4
50°	4980.1	5000.9	5107.2	5159.5	5128.8	5059.8	5097.2	5117.1	5011.7	4901.2	4892.1
52.5°	5419.4	5440.2	5573.9	5681.8	5661.9	5554.8	5607.1	5586.3	5465.1	5316.4	5304.8
55°	5916.9	5925.2	6069.7	6244.0	6264.0	6185.1	6181.8	6147.7	5968.3	5796.4	5788.1
57.5°	6428.4	6434.2	6621.1	6827.0	6920.8	6920.8	6827.8	6755.6	6517.3	6318.0	6297.2
60°	6980.6	7001.4	7208.2	7488.0	7707.3	7772.0	7607.6	7410.8	7151.7	6908.4	6884.3
62.5°	7472.3	7496.3	7812.7	8229.6	8581.7	8817.6	8415.6	8095.1	7623.4	7233.1	7187.4
65°	7534.5	7599.3	8060.2	8815.1	9603.2	10074.0	9303.4	8513.6	7654.1	7111.8	7065.3
67.5°	6881.0	6990.6	7613.4	8788.5	10417.0	11427.6	9870.6	8274.5	7102.7	6503.1	6451.7
70°	5287.4	5446.8	6165.2	7687.3	10276.6	11863.6	9515.1	7243.9	5921.8	5276.6	5204.3
72.5°	2900.7	2966.3	3612.4	5264.1	8238.7	10081.5	7936.5	5356.3	3927.1	3195.5	3074.3
75°	920.1	943.4	1272.2	2154.1	4660.4	6677.5	5041.6	2629.2	1447.4	1067.1	1054.7
77.5°	408.6	411.1	460.1	628.6	1605.2	3383.2	1928.3	715.8	493.3	431.0	445.1
80°	258.3	258.3	284.8	311.4	436.8	982.4	521.5	340.5	290.7	269.9	275.7
82.5°	123.7	137.0	185.2	199.3	240.0	330.5	267.4	222.6	194.3	144.5	134.5
85°	81.4	68.1	117.1	132.0	139.5	158.6	155.3	147.0	127.1	72.2	80.6
87.5°	36.5	34.9	60.6	55.6	52.3	39.9	59.8	73.9	71.4	35.7	35.7
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)