

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: P316718

Luminaire Tested: **GAN-SA4B-727-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316718
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4B-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19886 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

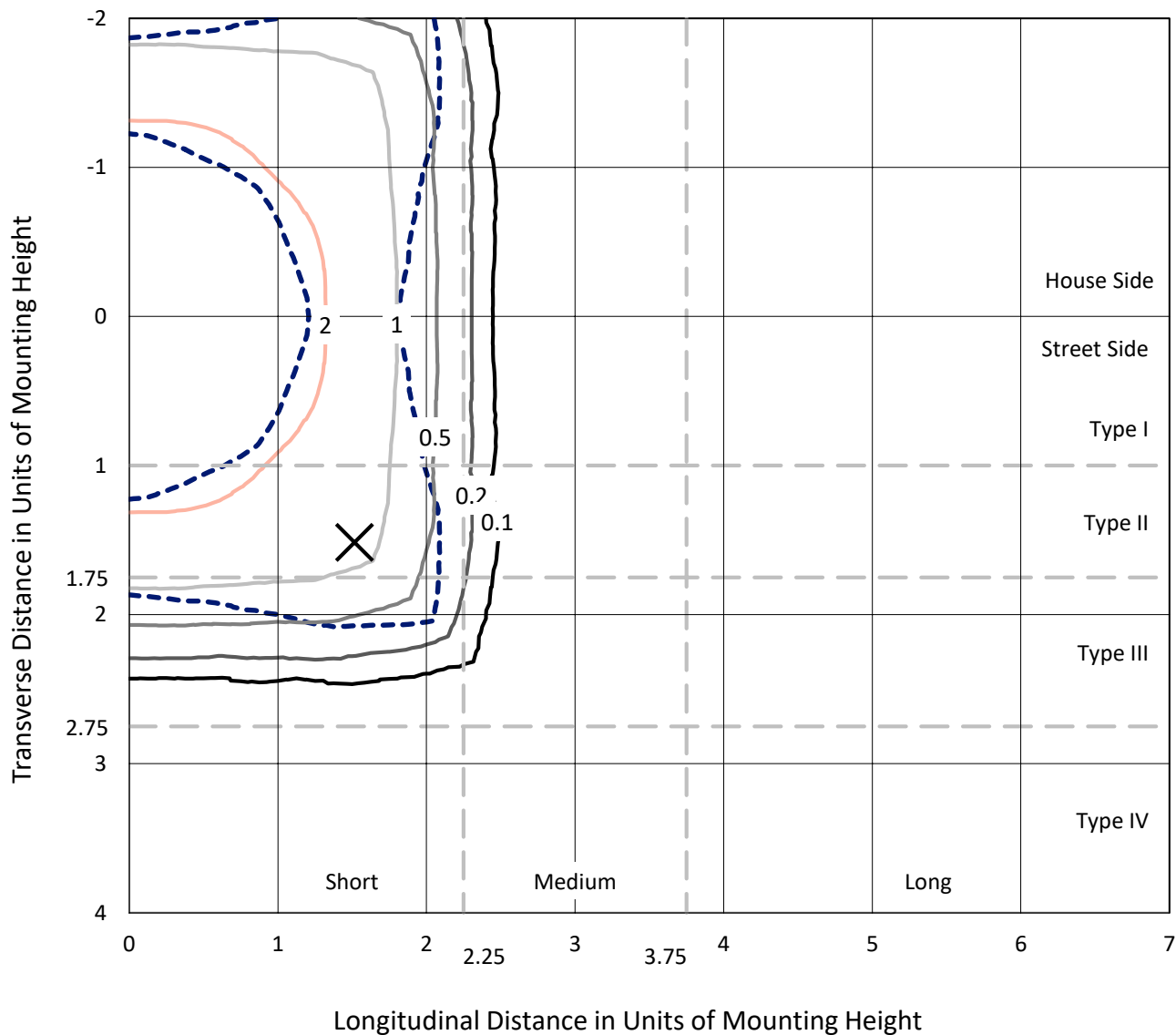
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

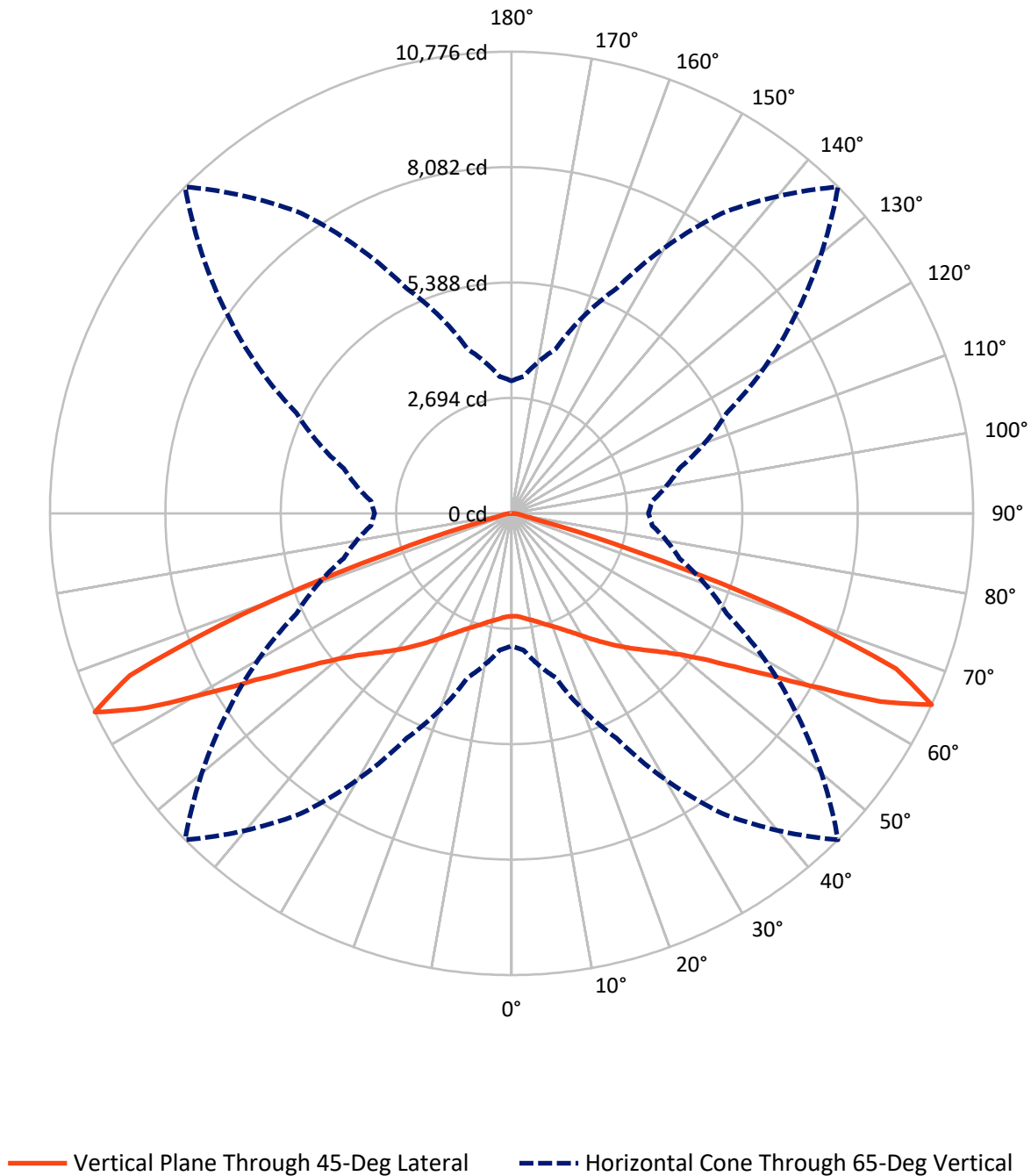
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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	9943.0	0.0	9943.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9943.0	0.0	9943.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	19886.0	0.0	19886.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	1.2
10°-20°	757.3	3.8
20°-30°	1420.9	7.1
30°-40°	2349.9	11.8
40°-50°	3639.7	18.3
50°-60°	5582.3	28.1
60°-70°	5208.9	26.2
70°-80°	606.2	3.0
80°-90°	85.2	0.4
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°	19886.0	100.0
0°-180°	19886.0	100.0

Coefficient of Utilization



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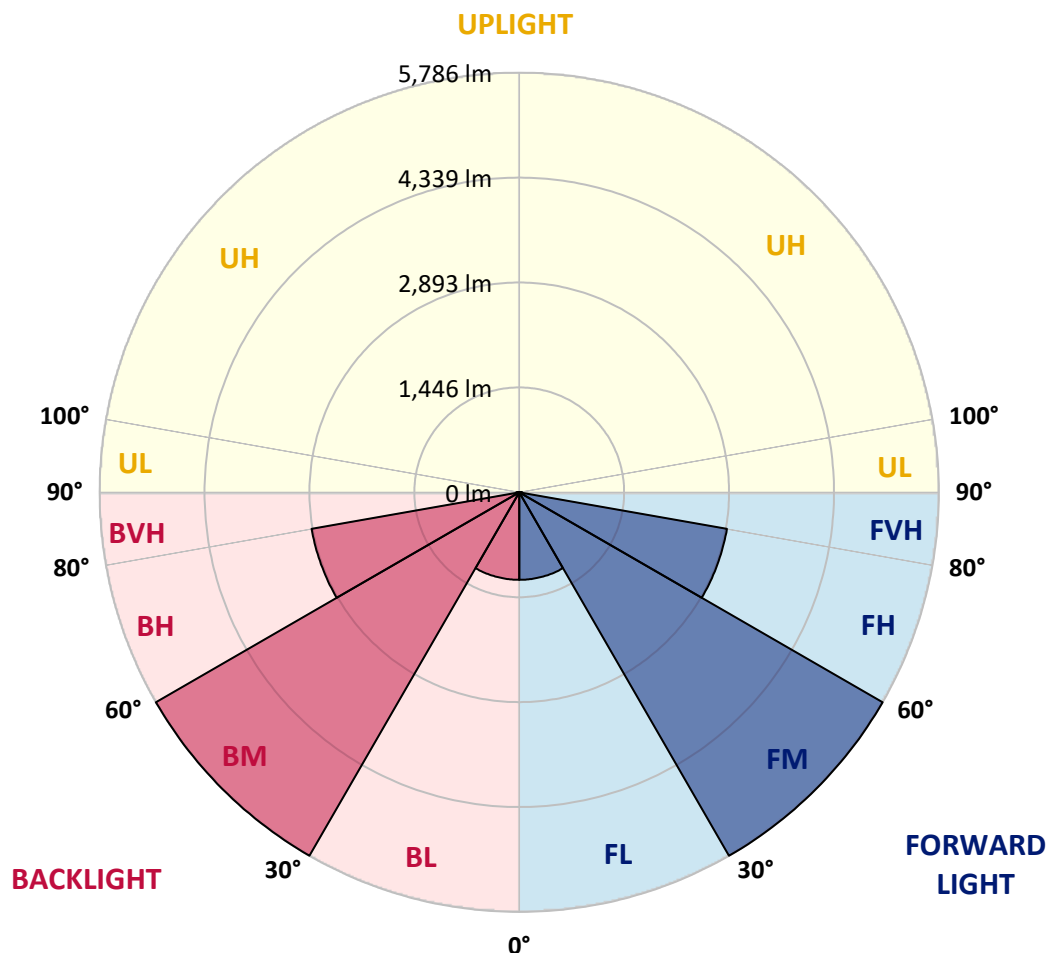
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1206.9	6.1			
FM	(30°-60°)	5785.9	29.1			
FH	(60°-80°)	2907.6	14.6			G2/5000
FVH	(80°-90°)	42.6	0.2			G1/100
BL	(0°-30°)	1206.9	6.1	B3/2500		
BM	(30°-60°)	5785.9	29.1	B4/8500		
BH	(60°-80°)	2907.6	14.6	B4/5000		G2/5000
BVH	(80°-90°)	42.6	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2401.5	2401.5	2401.5	2401.5	2401.5	2401.5	2401.5	2401.5	2401.5	2401.5	2401.5
2.5°	2409.4	2408.1	2409.4	2410.1	2406.1	2408.1	2407.4	2410.7	2412.0	2410.7	2410.7
5°	2437.1	2435.2	2437.8	2441.1	2435.8	2437.1	2435.2	2439.1	2440.4	2437.8	2439.8
7.5°	2475.4	2476.1	2478.7	2484.7	2481.4	2484.0	2480.0	2480.7	2480.0	2476.1	2476.7
10°	2517.0	2517.7	2522.3	2530.2	2531.5	2531.5	2528.9	2526.9	2524.3	2521.6	2522.3
12.5°	2567.2	2570.5	2573.8	2583.7	2583.7	2589.0	2587.6	2582.4	2577.7	2573.8	2573.8
15°	2635.2	2634.5	2638.5	2648.4	2653.0	2661.6	2661.6	2654.3	2648.4	2644.4	2643.1
17.5°	2706.5	2708.4	2711.1	2723.0	2730.2	2740.1	2741.4	2735.5	2731.5	2726.3	2723.0
20°	2789.6	2792.9	2803.5	2808.1	2814.7	2824.0	2827.3	2825.9	2822.0	2819.3	2820.0
22.5°	2886.7	2895.2	2901.9	2908.5	2916.4	2923.0	2926.3	2930.9	2926.9	2925.0	2923.6
25°	3004.2	3010.1	3023.3	3035.2	3040.5	3042.5	3046.4	3053.0	3052.4	3047.7	3047.7
27.5°	3137.5	3148.7	3165.2	3182.4	3182.4	3175.8	3189.0	3200.2	3196.3	3190.3	3182.4
30°	3299.2	3309.8	3328.9	3352.7	3340.8	3336.2	3354.0	3374.5	3368.5	3358.6	3357.3
32.5°	3473.5	3483.4	3508.5	3534.2	3519.1	3512.5	3531.6	3561.3	3550.7	3530.9	3519.1
35°	3662.3	3672.2	3707.8	3738.9	3713.1	3701.9	3717.7	3750.1	3731.6	3694.6	3685.4
37.5°	3867.6	3872.9	3919.1	3950.8	3932.9	3903.2	3923.0	3946.8	3931.0	3886.1	3868.3
40°	4080.8	4100.0	4153.4	4190.4	4159.4	4112.5	4145.5	4178.5	4154.7	4097.3	4066.9
42.5°	4329.7	4344.2	4415.5	4448.5	4398.3	4332.3	4377.2	4422.1	4398.3	4342.9	4316.5
45°	4588.4	4610.9	4696.0	4729.0	4656.4	4572.6	4627.4	4705.9	4704.0	4624.1	4596.4
47.5°	4870.3	4892.7	4994.4	5038.0	4959.4	4847.2	4924.4	5035.3	5027.4	4939.6	4917.2
50°	5195.7	5219.5	5346.2	5401.0	5327.8	5197.1	5313.2	5410.9	5396.4	5288.2	5290.1
52.5°	5604.3	5603.0	5760.8	5855.9	5780.6	5665.1	5772.0	5867.1	5807.0	5657.2	5652.5
55°	5962.1	5983.9	6179.3	6359.5	6354.9	6310.7	6353.6	6357.5	6185.9	5986.6	5962.1
57.5°	6197.1	6238.7	6514.0	6840.1	7084.3	7143.1	7059.9	6807.7	6405.7	6086.9	6047.9
60°	6052.6	6115.9	6548.3	7213.0	7932.6	8277.8	7808.5	7026.2	6234.8	5790.5	5737.7
62.5°	5076.9	5183.9	5816.9	7032.8	8662.6	9672.0	8351.1	6675.7	5554.8	4942.9	4852.5
65°	3092.0	3204.8	3967.9	5788.5	8544.5	10775.7	8103.5	5541.0	4054.4	3293.3	3195.6
67.5°	1030.4	1063.4	1513.0	3199.6	6715.3	9681.9	6726.5	3317.1	1764.5	1169.7	1135.4
70°	403.3	406.6	479.9	927.5	3171.2	6650.0	3499.3	944.0	501.7	396.7	405.3
72.5°	296.4	297.7	318.2	387.5	826.5	2929.6	856.2	389.5	309.6	277.9	277.9
75°	238.3	238.3	252.8	282.5	370.3	672.0	375.6	279.2	242.3	221.8	219.2
77.5°	188.1	192.1	203.3	222.5	250.8	323.5	260.1	221.1	195.4	176.2	172.3
80°	139.9	143.9	162.4	171.6	180.2	224.4	192.1	172.9	154.5	132.0	128.1
82.5°	91.8	95.7	118.8	124.1	122.1	146.5	129.4	127.4	113.5	85.2	81.2
85°	60.1	61.4	79.2	82.5	75.9	66.7	82.5	87.1	79.2	55.4	53.5
87.5°	28.4	28.4	40.3	37.6	34.3	27.7	37.6	44.2	44.9	27.1	26.4
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)