

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: P316281

Luminaire Tested: **GAN-SA7B-827-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316281
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-SA7B-827-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 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: 31298 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

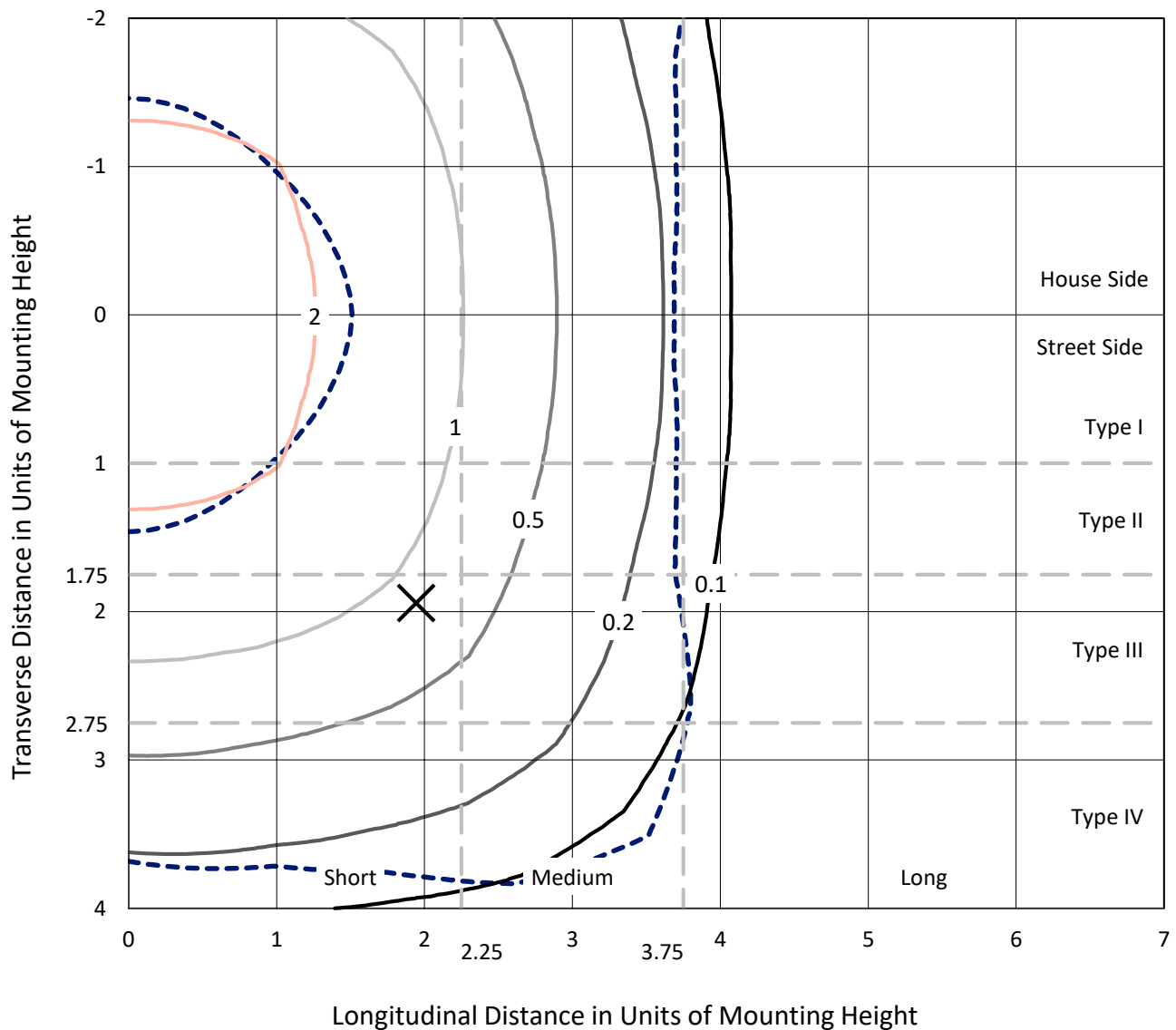
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

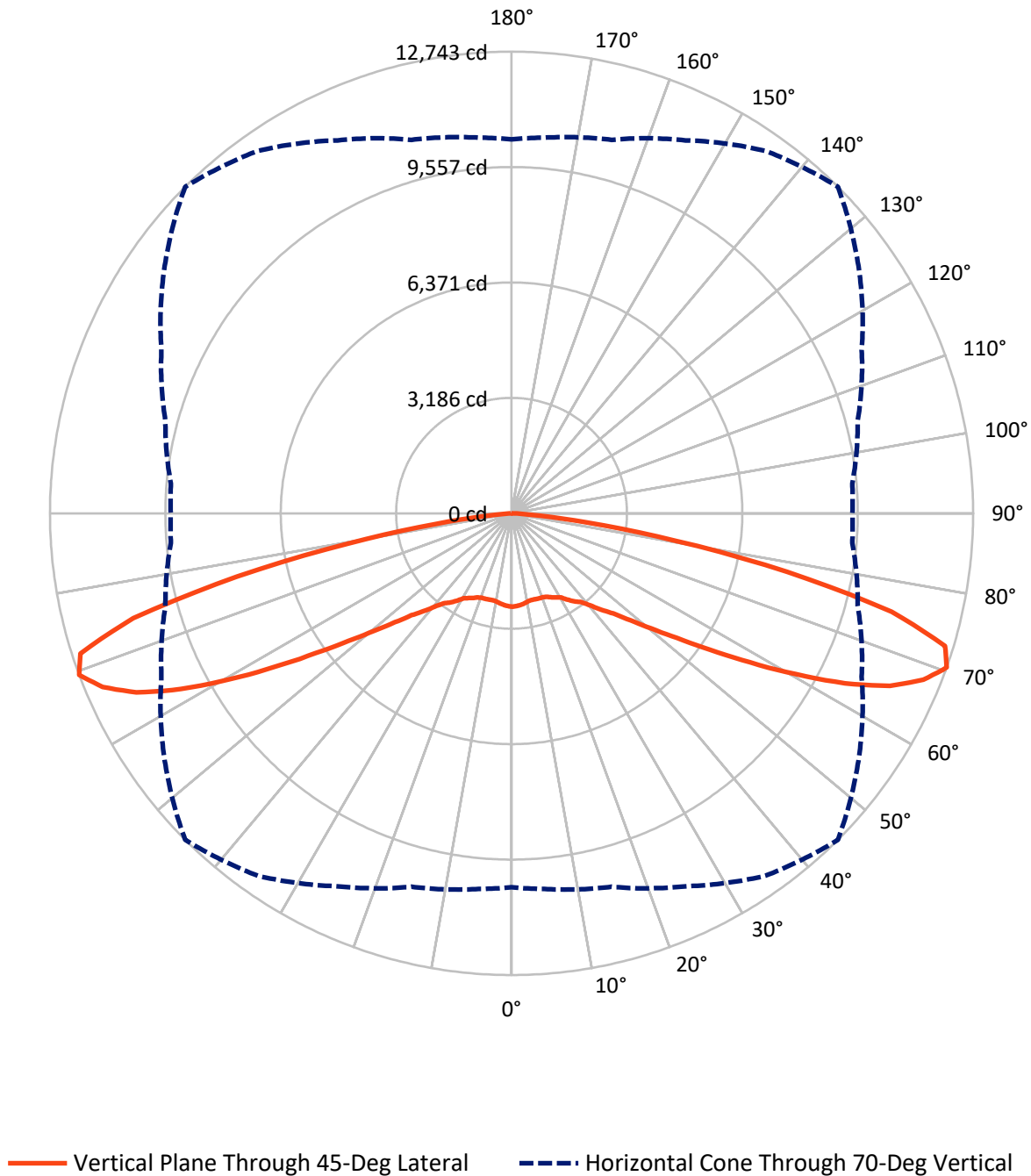
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.1 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	15649.0	0.0	15649.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	15649.0	0.0	15649.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	31298.0	0.0	31298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	0.8
10°-20°	702.2	2.2
20°-30°	1197.3	3.8
30°-40°	1870.8	6.0
40°-50°	3170.6	10.1
50°-60°	5781.9	18.5
60°-70°	9953.9	31.8
70°-80°	7802.2	24.9
80°-90°	578.5	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°	31298.0	100.0
0°-180°	31298.0	100.0

Coefficient of Utilization



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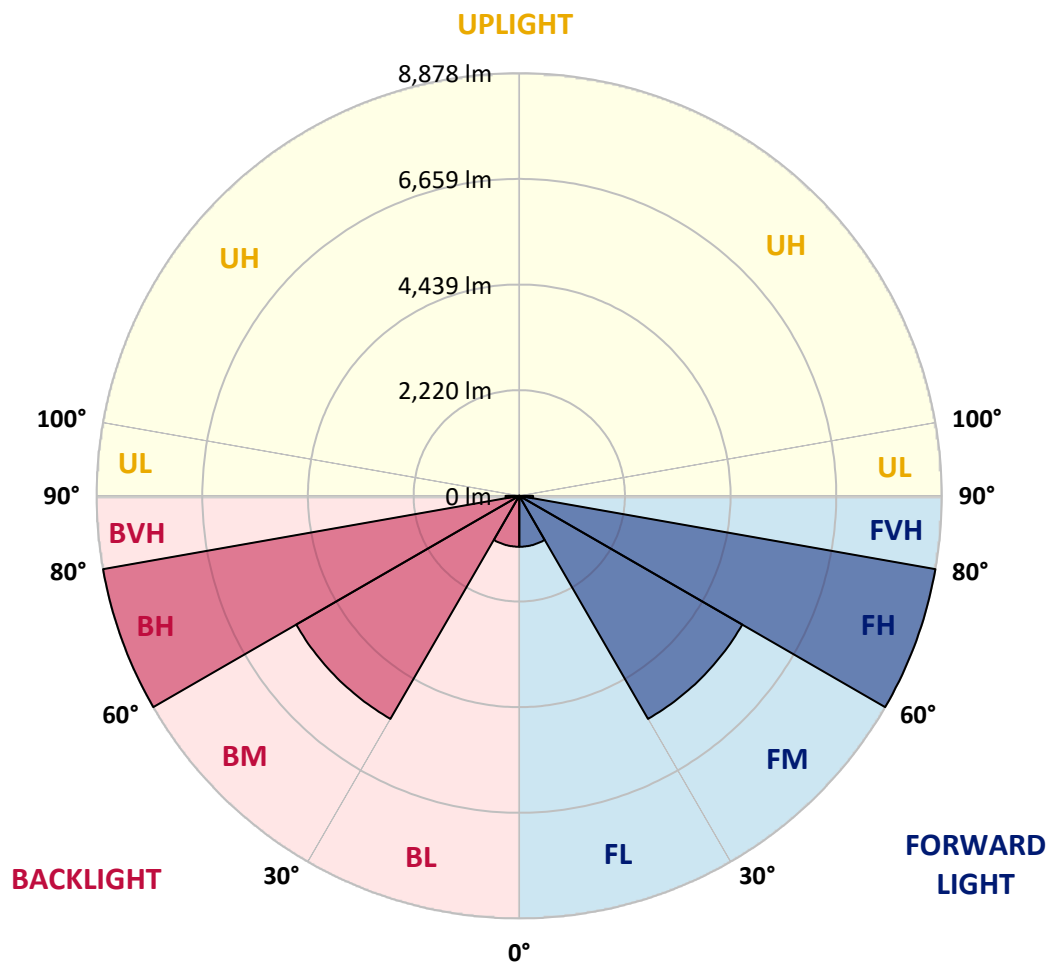
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1070.0	3.4			
FM	(30°-60°)	5411.7	17.3			
FH	(60°-80°)	8878.1	28.4			G4/12000
FVH	(80°-90°)	289.3	0.9			G3/500
BL	(0°-30°)	1070.0	3.4	B3/2500		
BM	(30°-60°)	5411.7	17.3	B4/8500		
BH	(60°-80°)	8878.1	28.4	B5		G4/12000
BVH	(80°-90°)	289.3	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°	2575.8	2575.8	2575.8	2575.8	2575.8	2575.8	2575.8	2575.8	2575.8	2575.8	2575.8
2.5°	2564.4	2567.5	2564.4	2566.5	2561.3	2563.4	2563.4	2563.4	2562.4	2563.4	2561.3
5°	2541.7	2543.7	2539.6	2541.7	2538.6	2541.7	2542.7	2541.7	2539.6	2540.6	2536.5
7.5°	2507.5	2509.6	2506.5	2509.6	2505.4	2510.6	2509.6	2506.5	2503.4	2503.4	2499.2
10°	2488.9	2489.9	2481.6	2478.5	2469.2	2471.3	2474.4	2477.5	2480.6	2486.8	2485.8
12.5°	2489.9	2489.9	2477.5	2464.0	2450.6	2453.7	2458.8	2470.2	2482.7	2494.0	2495.1
15°	2500.3	2499.2	2480.6	2458.8	2449.5	2458.8	2461.9	2469.2	2488.9	2508.5	2509.6
17.5°	2507.5	2507.5	2478.5	2453.7	2452.6	2467.1	2466.1	2469.2	2490.9	2519.9	2521.0
20°	2521.0	2521.0	2483.7	2456.8	2456.8	2472.3	2473.3	2478.5	2500.3	2532.3	2537.5
22.5°	2551.0	2552.0	2512.7	2490.9	2493.0	2502.3	2505.4	2513.7	2533.4	2568.6	2574.8
25°	2593.4	2595.5	2555.1	2542.7	2549.9	2567.5	2565.5	2571.7	2593.4	2627.6	2633.8
27.5°	2652.4	2647.3	2610.0	2604.8	2612.1	2624.5	2623.5	2624.5	2642.1	2673.1	2680.4
30°	2729.1	2727.0	2700.1	2703.2	2700.1	2695.9	2697.0	2705.2	2714.6	2739.4	2746.7
32.5°	2803.6	2805.7	2789.1	2804.6	2827.4	2842.9	2819.1	2796.3	2786.0	2799.5	2805.7
35°	2938.2	2943.4	2917.5	2907.1	2938.2	2983.7	2916.4	2879.2	2899.9	2917.5	2922.7
37.5°	3167.0	3170.1	3126.6	3085.2	3062.4	3105.9	3038.6	3041.7	3114.2	3147.3	3146.3
40°	3427.9	3428.9	3399.9	3363.7	3324.4	3334.7	3307.8	3316.1	3363.7	3393.7	3402.0
42.5°	3738.5	3735.4	3689.8	3638.0	3626.7	3637.0	3591.5	3585.2	3640.1	3694.0	3695.0
45°	4141.2	4134.0	4074.9	4018.0	3963.1	3940.4	3929.0	3959.0	4034.6	4084.3	4085.3
47.5°	4575.0	4555.3	4524.3	4478.7	4431.1	4408.3	4389.7	4404.2	4459.0	4478.7	4480.8
50°	5021.2	5025.4	5031.6	5014.0	4996.4	4989.1	4940.5	4912.5	4929.1	4892.8	4887.7
52.5°	5550.3	5558.5	5618.6	5669.3	5699.3	5714.9	5622.7	5526.4	5472.6	5402.2	5381.5
55°	6174.5	6188.0	6276.0	6416.8	6561.7	6638.4	6471.7	6291.5	6124.8	5993.4	5950.9
57.5°	6870.3	6894.1	7015.2	7285.4	7582.5	7763.7	7482.1	7155.0	6833.0	6643.5	6610.4
60°	7686.1	7708.9	7876.6	8263.8	8745.2	9017.5	8590.9	8055.7	7655.0	7473.8	7412.8
62.5°	8657.2	8659.3	8865.3	9317.7	9953.4	10332.3	9754.6	9039.2	8626.1	8407.7	8348.7
65°	9701.8	9707.0	9920.3	10408.9	11066.3	11478.4	10826.1	10080.7	9575.5	9253.5	9208.0
67.5°	10440.0	10461.7	10686.4	11274.4	11889.4	12261.1	11586.1	10743.3	10159.4	9775.3	9737.0
70°	10322.0	10406.8	10670.9	11357.3	12212.4	12742.5	11709.3	10664.6	9894.4	9440.9	9408.8
72.5°	9001.9	9164.5	9516.5	10417.2	11784.8	12514.7	11037.3	9551.7	8680.0	8293.8	8235.8
75°	6130.0	6394.0	6925.1	8224.4	10068.3	10835.5	9291.8	7615.7	6795.7	6261.5	6222.2
77.5°	2733.2	2793.2	3466.2	4962.2	6947.9	7781.3	6751.2	4981.9	3739.5	2982.7	2823.3
80°	762.0	771.3	1029.1	1848.0	3477.6	4571.9	3733.3	1941.2	1091.2	769.2	724.7
82.5°	242.3	263.0	320.9	479.3	1168.9	2086.1	1199.9	517.7	368.6	294.0	265.0
85°	118.0	117.0	162.5	194.6	298.2	461.7	317.8	240.2	210.2	139.8	126.3
87.5°	49.7	50.7	75.6	68.3	87.0	74.5	102.5	107.7	112.8	62.1	53.8
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)