

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: P316389

Luminaire Tested: **GAN-SA5A-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316389
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-SA5A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20462 lumens
Efficiency: N/A
Efficacy: 126.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

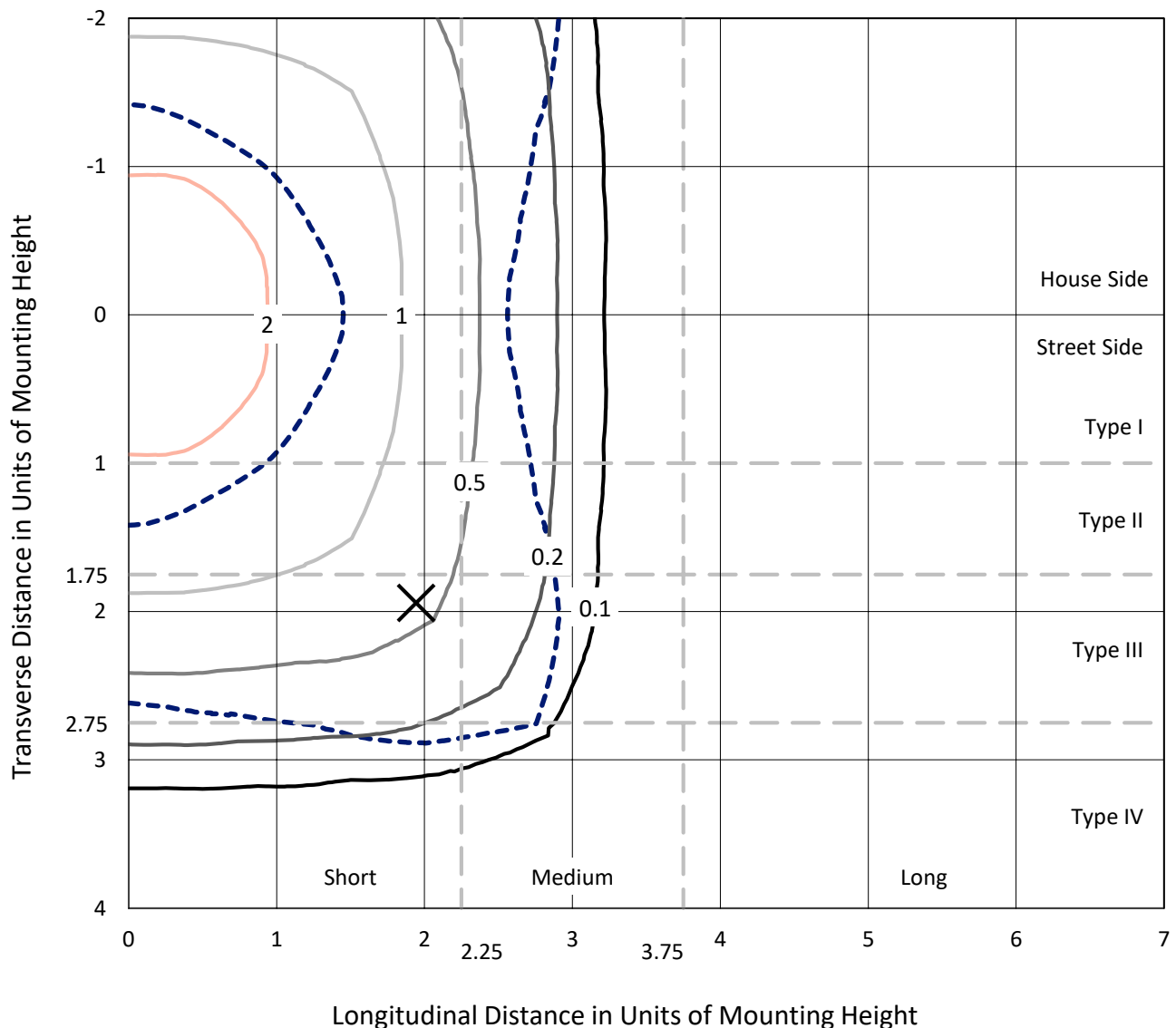
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316389
 CATALOG NUMBER: GAN-SA5A-727-U-5MQ

Iso-Footcandle Lines of Horizontal Illumination

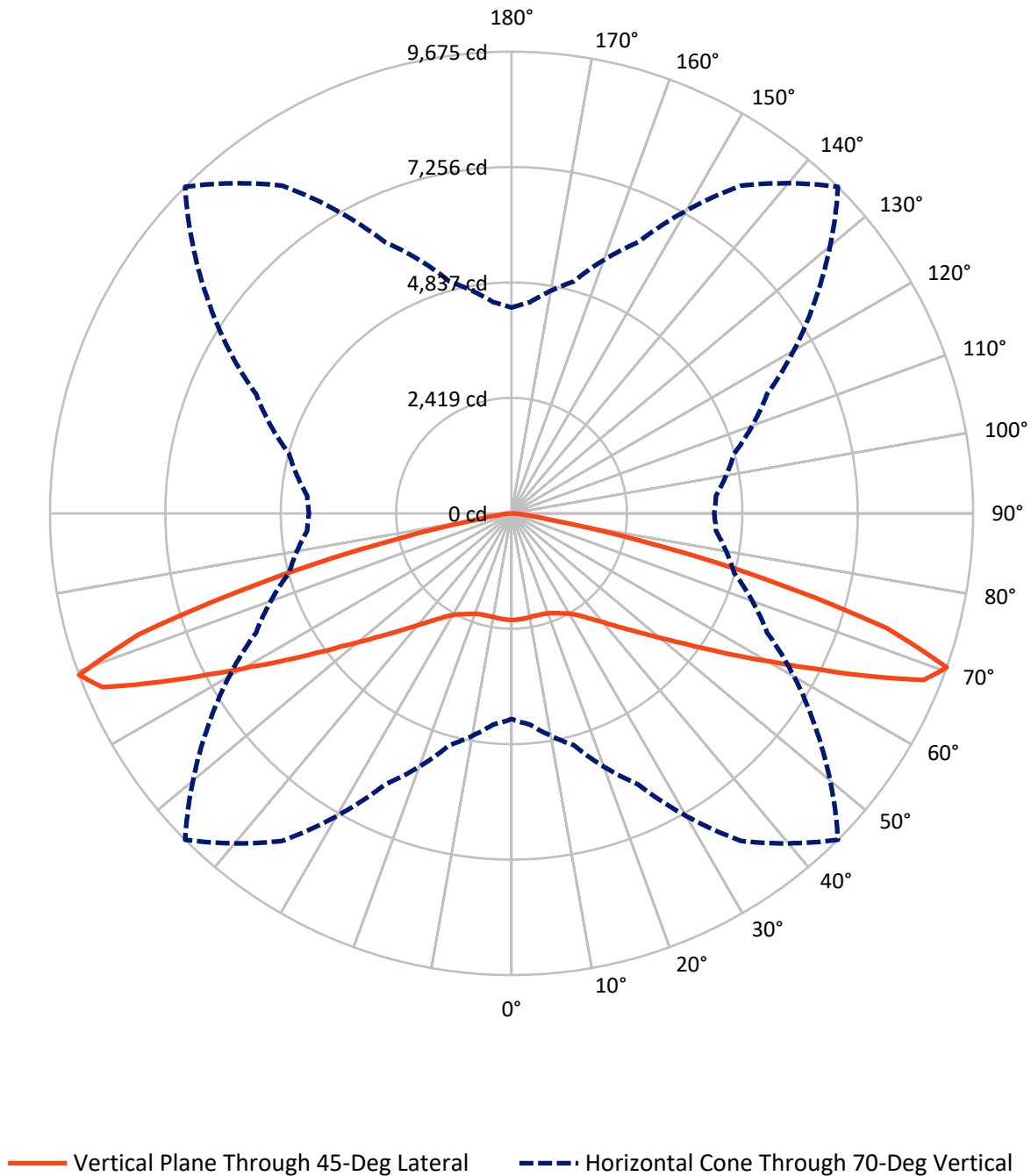
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - N/A

REPORT NUMBER: P316389
CATALOG NUMBER: GAN-SA5A-727-U-5MQ

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10231.0	0.0	10231.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10231.0	0.0	10231.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	20462.0	0.0	20462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	1.0
10°-20°	621.4	3.0
20°-30°	1057.8	5.2
30°-40°	1677.6	8.2
40°-50°	2730.0	13.3
50°-60°	4501.3	22.0
60°-70°	6608.0	32.3
70°-80°	2922.0	14.3
80°-90°	132.3	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°	20462.0	100.0
0°-180°	20462.0	100.0

Coefficient of Utilization



REPORT NUMBER: P316389

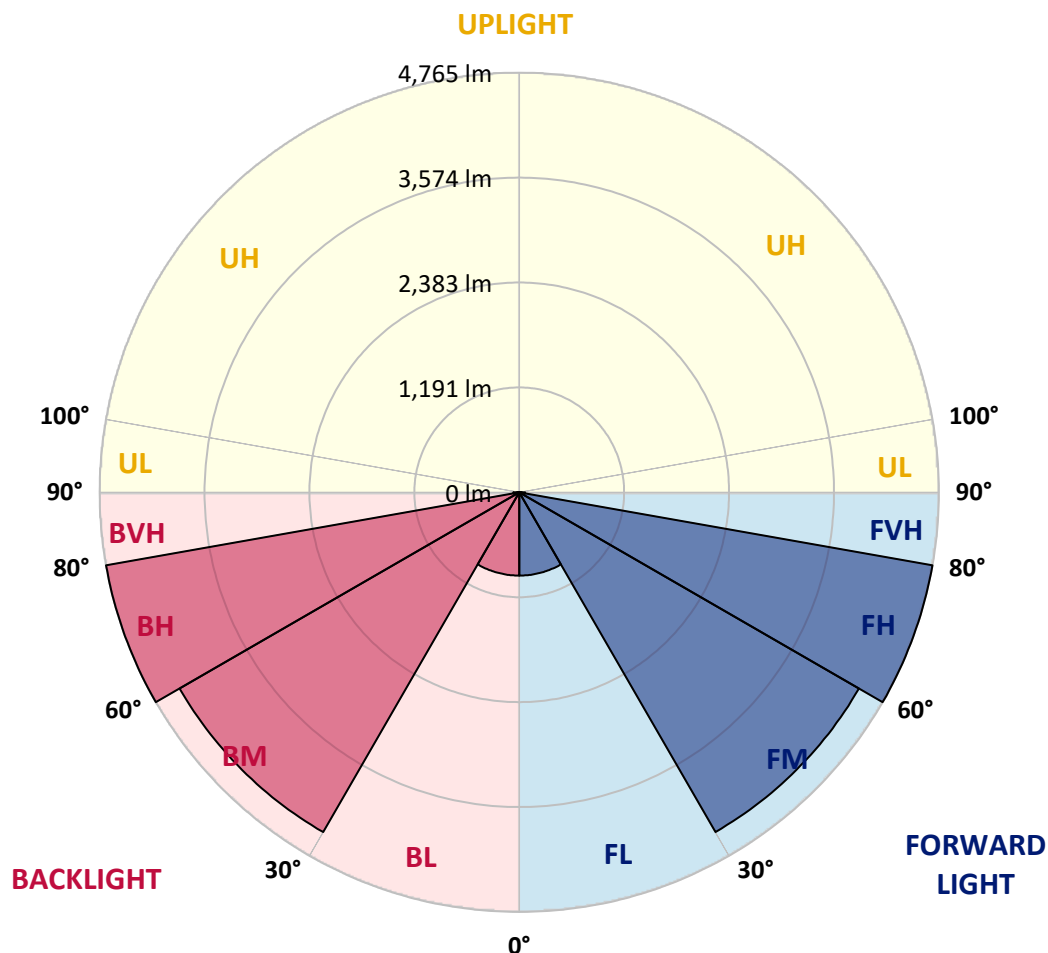
CATALOG NUMBER: GAN-SA5A-727-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	945.4	4.6			
FM	(30°-60°)	4454.4	21.8			
FH	(60°-80°)	4765.0	23.3			G2/5000
FVH	(80°-90°)	66.2	0.3			G1/100
BL	(0°-30°)	945.4	4.6	B2/1000		
BM	(30°-60°)	4454.4	21.8	B3/5000		
BH	(60°-80°)	4765.0	23.3	B4/5000		G2/5000
BVH	(80°-90°)	66.2	0.3			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



REPORT NUMBER: P316389

CATALOG NUMBER: GAN-SA5A-727-U-5MQ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8	2234.8
2.5°	2231.4	2229.4	2234.1	2233.4	2229.4	2230.0	2230.0	2232.1	2232.1	2230.7	2230.7
5°	2223.3	2221.9	2227.3	2227.3	2223.3	2224.6	2226.0	2228.0	2227.3	2226.0	2225.3
7.5°	2213.1	2212.4	2217.8	2217.8	2215.1	2216.5	2215.1	2215.8	2214.5	2213.1	2211.1
10°	2196.2	2197.5	2202.3	2203.6	2203.6	2204.3	2202.9	2199.6	2197.5	2195.5	2193.5
12.5°	2180.6	2179.9	2186.7	2190.1	2195.5	2201.6	2197.5	2188.0	2184.0	2179.9	2178.6
15°	2170.4	2171.1	2177.9	2184.0	2193.5	2206.3	2201.6	2186.7	2178.6	2173.8	2172.5
17.5°	2168.4	2169.8	2178.6	2189.4	2199.6	2213.8	2211.1	2196.2	2182.6	2173.8	2171.8
20°	2173.1	2173.8	2187.4	2202.9	2220.5	2234.1	2228.0	2211.7	2193.5	2179.9	2176.5
22.5°	2181.9	2184.7	2201.6	2226.0	2253.1	2271.3	2263.9	2236.1	2207.7	2190.8	2186.0
25°	2209.7	2210.4	2233.4	2266.6	2299.1	2320.1	2311.3	2272.0	2235.4	2216.5	2210.4
27.5°	2267.3	2269.3	2292.3	2330.9	2358.7	2372.2	2366.8	2335.0	2303.8	2283.5	2285.6
30°	2350.6	2353.3	2379.0	2421.7	2438.6	2442.0	2440.6	2425.7	2397.3	2370.2	2372.2
32.5°	2452.2	2453.5	2488.0	2526.6	2540.2	2542.9	2540.2	2526.6	2492.8	2456.2	2458.2
35°	2582.9	2586.9	2620.1	2657.3	2668.2	2673.6	2668.9	2651.2	2616.0	2580.1	2578.8
37.5°	2744.0	2744.7	2779.2	2817.8	2831.4	2832.7	2827.3	2815.8	2771.8	2739.3	2737.3
40°	2930.9	2933.6	2974.3	3015.6	3021.0	3014.9	3022.4	3015.6	2970.2	2933.0	2939.1
42.5°	3158.5	3164.6	3213.3	3254.0	3238.4	3235.0	3239.7	3241.8	3205.2	3159.8	3155.8
45°	3423.3	3428.7	3489.6	3522.1	3512.0	3489.6	3499.1	3515.4	3464.6	3408.4	3413.8
47.5°	3725.3	3738.8	3803.8	3834.3	3809.3	3778.8	3797.1	3821.5	3761.9	3692.1	3688.7
50°	4061.2	4078.1	4164.8	4207.5	4182.4	4126.2	4156.7	4172.9	4086.9	3996.9	3989.4
52.5°	4419.4	4436.4	4545.4	4633.4	4617.2	4529.8	4572.5	4555.5	4456.7	4335.5	4326.0
55°	4825.1	4831.8	4949.7	5091.9	5108.1	5043.8	5041.1	5013.3	4867.1	4726.9	4720.1
57.5°	5242.2	5247.0	5399.3	5567.3	5643.8	5643.8	5568.0	5509.0	5314.7	5152.2	5135.2
60°	5692.6	5709.5	5878.1	6106.3	6285.1	6337.9	6203.9	6043.4	5832.1	5633.6	5614.0
62.5°	6093.5	6113.1	6371.1	6711.1	6998.2	7190.5	6862.8	6601.4	6216.7	5898.4	5861.2
65°	6144.3	6197.1	6572.9	7188.5	7831.2	8215.1	7586.7	6942.7	6241.8	5799.6	5761.6
67.5°	5611.3	5700.7	6208.6	7166.8	8494.8	9319.0	8049.2	6747.6	5792.1	5303.2	5261.2
70°	4311.7	4441.8	5027.6	6268.9	8380.4	9674.5	7759.4	5907.2	4829.1	4302.9	4244.0
72.5°	2365.5	2419.0	2945.8	4292.8	6718.5	8221.2	6472.0	4368.0	3202.5	2605.9	2507.0
75°	750.3	769.3	1037.5	1756.7	3800.5	5445.4	4111.3	2144.0	1180.4	870.2	860.0
77.5°	333.2	335.2	375.2	512.6	1309.0	2758.9	1572.5	583.7	402.3	351.5	363.0
80°	210.6	210.6	232.3	254.0	356.2	801.1	425.3	277.7	237.0	220.1	224.8
82.5°	100.9	111.7	151.0	162.5	195.7	269.5	218.1	181.5	158.5	117.8	109.7
85°	66.4	55.5	95.5	107.7	113.8	129.3	126.6	119.9	103.6	58.9	65.7
87.5°	29.8	28.4	49.4	45.4	42.7	32.5	48.8	60.3	58.2	29.1	29.1
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)