

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: P316098

Luminaire Tested: **GAN-SA4D-727-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316098
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-SA4D-727-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27570 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

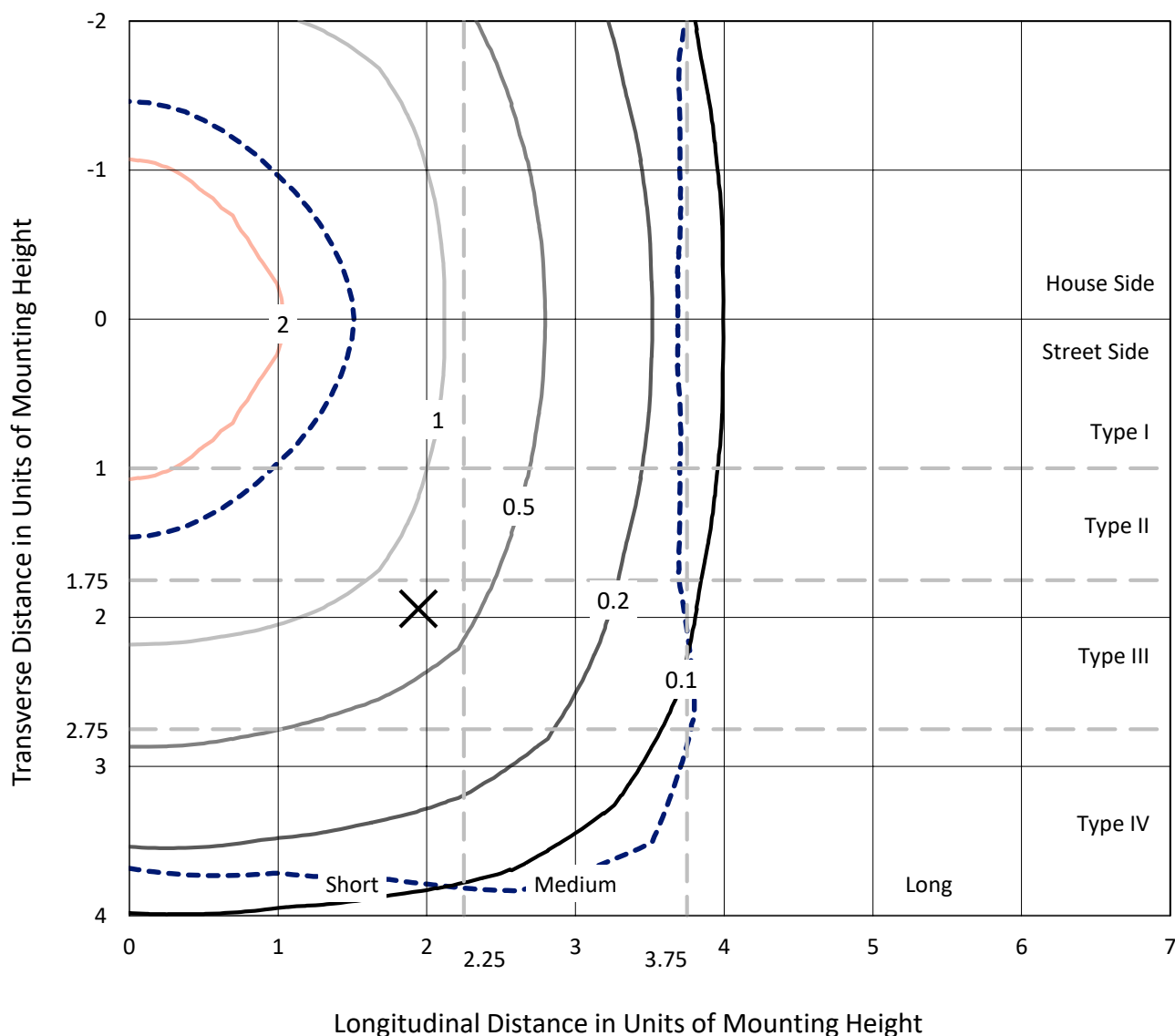
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

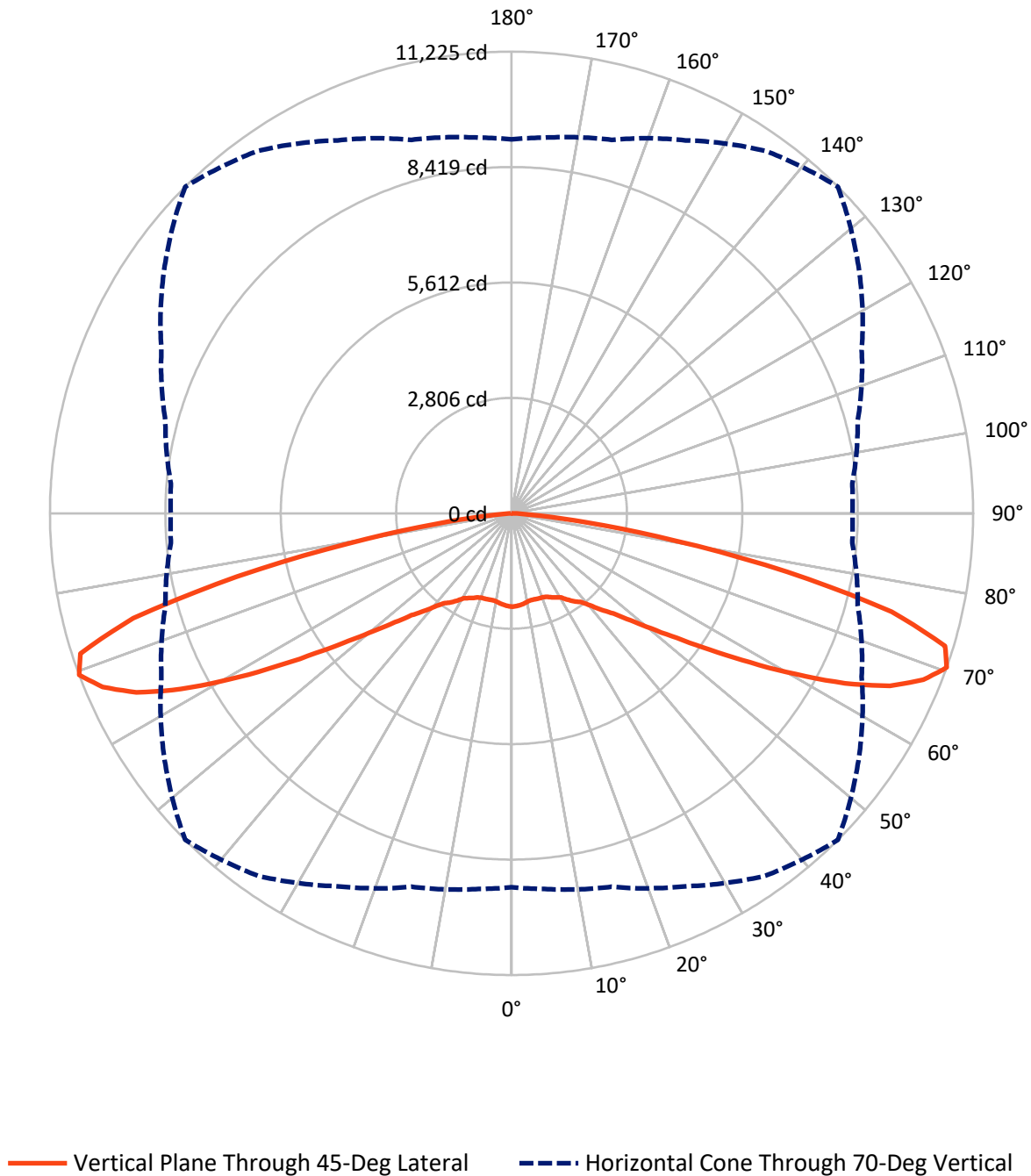
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	13785.0	0.0	13785.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13785.0	0.0	13785.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	27570.0	0.0	27570.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	0.8
10°-20°	618.6	2.2
20°-30°	1054.7	3.8
30°-40°	1648.0	6.0
40°-50°	2793.0	10.1
50°-60°	5093.2	18.5
60°-70°	8768.3	31.8
70°-80°	6872.9	24.9
80°-90°	509.6	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°	27570.0	100.0
0°-180°	27570.0	100.0

Coefficient of Utilization



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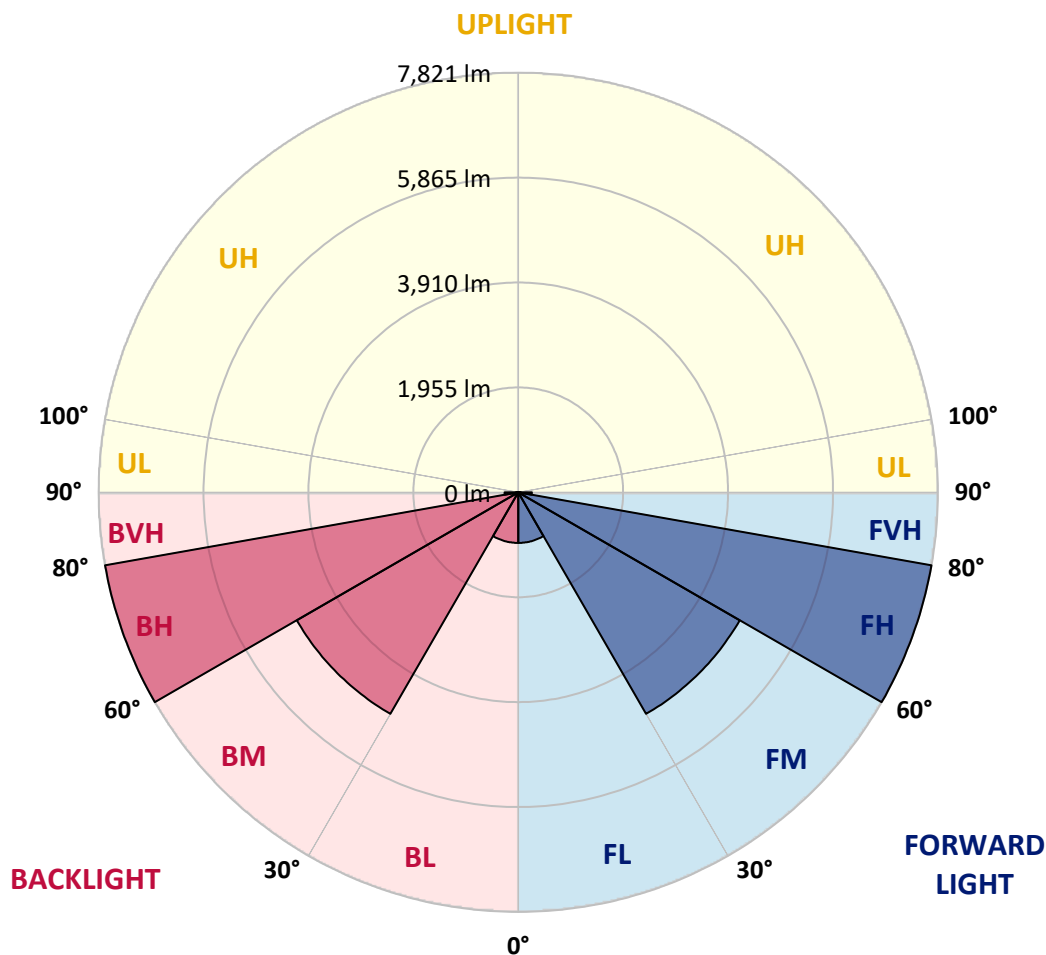
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	942.5	3.4			
FM	(30°-60°)	4767.1	17.3			
FH	(60°-80°)	7820.6	28.4			G4/12000
FVH	(80°-90°)	254.8	0.9			G3/500
BL	(0°-30°)	942.5	3.4	B2/1000		
BM	(30°-60°)	4767.1	17.3	B3/5000		
BH	(60°-80°)	7820.6	28.4	B5		G4/12000
BVH	(80°-90°)	254.8	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°	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0	2269.0
2.5°	2259.0	2261.7	2259.0	2260.8	2256.2	2258.1	2258.1	2258.1	2257.2	2258.1	2256.2
5°	2238.9	2240.7	2237.1	2238.9	2236.2	2238.9	2239.8	2238.9	2237.1	2238.0	2234.4
7.5°	2208.8	2210.6	2207.9	2210.6	2207.0	2211.6	2210.6	2207.9	2205.2	2205.2	2201.5
10°	2192.4	2193.3	2186.0	2183.3	2175.1	2176.9	2179.6	2182.4	2185.1	2190.6	2189.7
12.5°	2193.3	2193.3	2182.4	2170.5	2158.7	2161.4	2166.0	2176.0	2186.9	2197.0	2197.9
15°	2202.4	2201.5	2185.1	2166.0	2157.8	2166.0	2168.7	2175.1	2192.4	2209.7	2210.6
17.5°	2208.8	2208.8	2183.3	2161.4	2160.5	2173.3	2172.3	2175.1	2194.2	2219.8	2220.7
20°	2220.7	2220.7	2187.8	2164.1	2164.1	2177.8	2178.7	2183.3	2202.4	2230.7	2235.3
22.5°	2247.1	2248.0	2213.4	2194.2	2196.1	2204.3	2207.0	2214.3	2231.6	2262.6	2268.1
25°	2284.5	2286.3	2250.8	2239.8	2246.2	2261.7	2259.9	2265.4	2284.5	2314.6	2320.1
27.5°	2336.5	2331.9	2299.1	2294.6	2300.9	2311.9	2311.0	2311.9	2327.4	2354.7	2361.1
30°	2404.0	2402.2	2378.5	2381.2	2378.5	2374.8	2375.7	2383.0	2391.2	2413.1	2419.5
32.5°	2469.7	2471.5	2456.9	2470.6	2490.6	2504.3	2483.3	2463.3	2454.1	2466.0	2471.5
35°	2588.2	2592.8	2570.0	2560.8	2588.2	2628.3	2569.1	2536.2	2554.5	2570.0	2574.5
37.5°	2789.8	2792.5	2754.2	2717.7	2697.6	2736.0	2676.7	2679.4	2743.2	2772.4	2771.5
40°	3019.6	3020.5	2995.0	2963.0	2928.4	2937.5	2913.8	2921.1	2963.0	2989.5	2996.8
42.5°	3293.2	3290.4	3250.3	3204.7	3194.7	3203.8	3163.7	3158.2	3206.5	3254.0	3254.9
45°	3647.9	3641.5	3589.6	3539.4	3491.1	3471.0	3461.0	3487.4	3554.0	3597.8	3598.7
47.5°	4030.1	4012.7	3985.4	3945.2	3903.3	3883.2	3866.8	3879.6	3927.9	3945.2	3947.1
50°	4423.1	4426.8	4432.2	4416.7	4401.2	4394.8	4352.0	4327.4	4342.0	4310.0	4305.5
52.5°	4889.1	4896.4	4949.3	4994.0	5020.5	5034.1	4953.0	4868.2	4820.7	4758.7	4740.5
55°	5439.1	5450.9	5528.4	5652.5	5780.2	5847.6	5700.8	5542.1	5395.3	5279.5	5242.1
57.5°	6051.9	6072.9	6179.6	6417.6	6679.4	6839.0	6590.9	6302.7	6019.1	5852.2	5823.0
60°	6770.6	6790.6	6938.4	7279.5	7703.5	7943.4	7567.6	7096.1	6743.2	6583.6	6529.8
62.5°	7626.0	7627.8	7809.3	8207.9	8767.8	9101.6	8592.7	7962.5	7598.6	7406.2	7354.2
65°	8546.2	8550.8	8738.6	9169.1	9748.2	10111.2	9536.6	8880.0	8434.9	8151.3	8111.2
67.5°	9196.4	9215.6	9413.5	9931.5	10473.2	10800.6	10206.0	9463.7	8949.3	8610.9	8577.2
70°	9092.5	9167.3	9399.8	10004.5	10757.8	11224.7	10314.5	9394.3	8715.8	8316.4	8288.1
72.5°	7929.7	8072.9	8383.0	9176.4	10381.1	11024.1	9722.7	8414.0	7646.1	7305.9	7254.8
75°	5399.9	5632.4	6100.3	7244.8	8869.0	9544.8	8185.1	6708.6	5986.3	5515.7	5481.0
77.5°	2407.6	2460.5	3053.3	4371.1	6120.3	6854.5	5947.0	4388.5	3294.1	2627.4	2487.0
80°	671.2	679.4	906.5	1627.9	3063.4	4027.3	3288.6	1710.0	961.2	677.6	638.4
82.5°	213.4	231.6	282.7	422.2	1029.6	1837.6	1057.0	456.0	324.7	259.0	233.5
85°	104.0	103.1	143.2	171.5	262.7	406.7	280.0	211.6	185.1	123.1	111.3
87.5°	43.8	44.7	66.6	60.2	76.6	65.7	90.3	94.8	99.4	54.7	47.4
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)