

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: P316908

Luminaire Tested: **GAN-SA4A-827-U-5NQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316908
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-SA4A-827-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14255 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

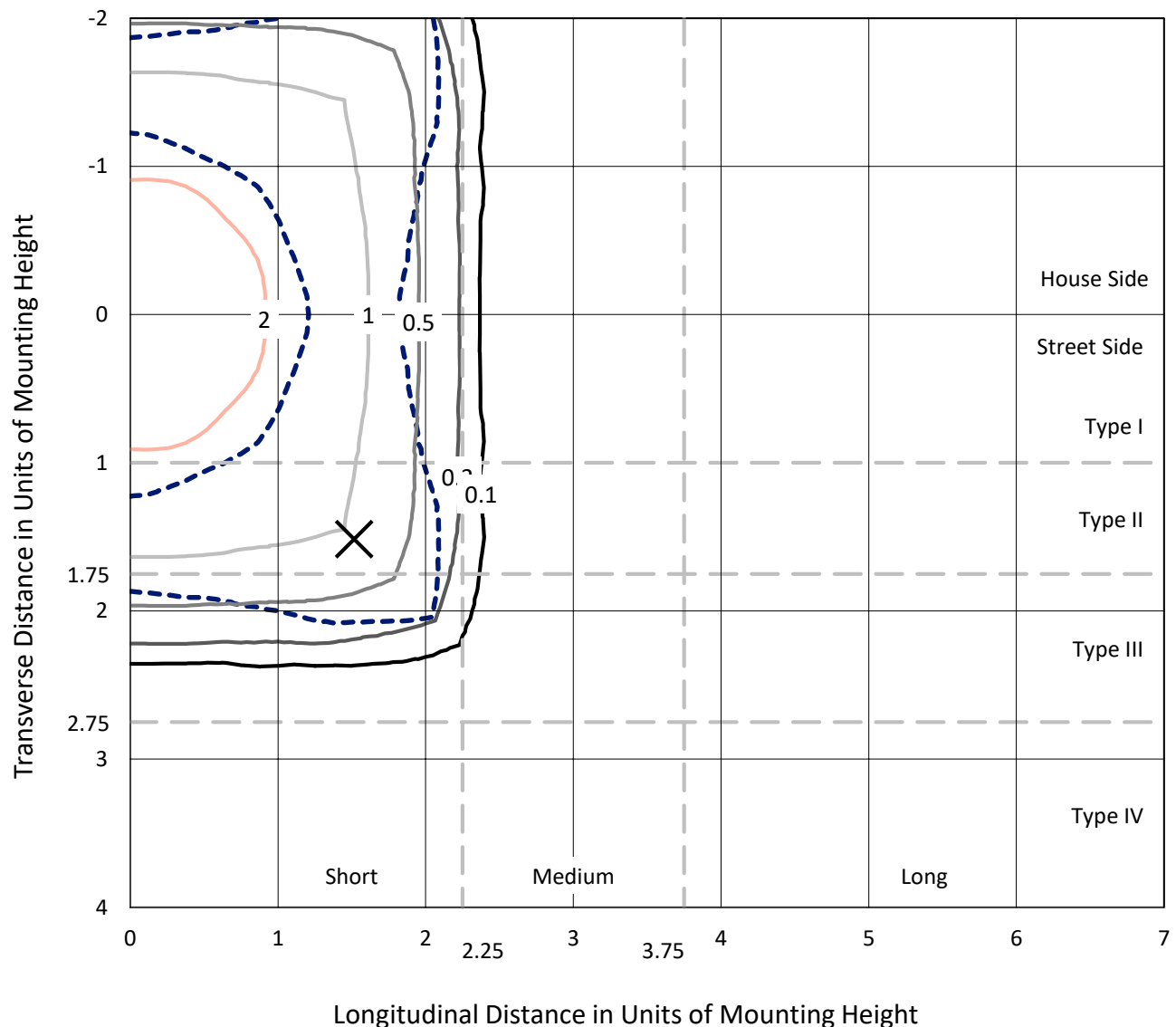
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

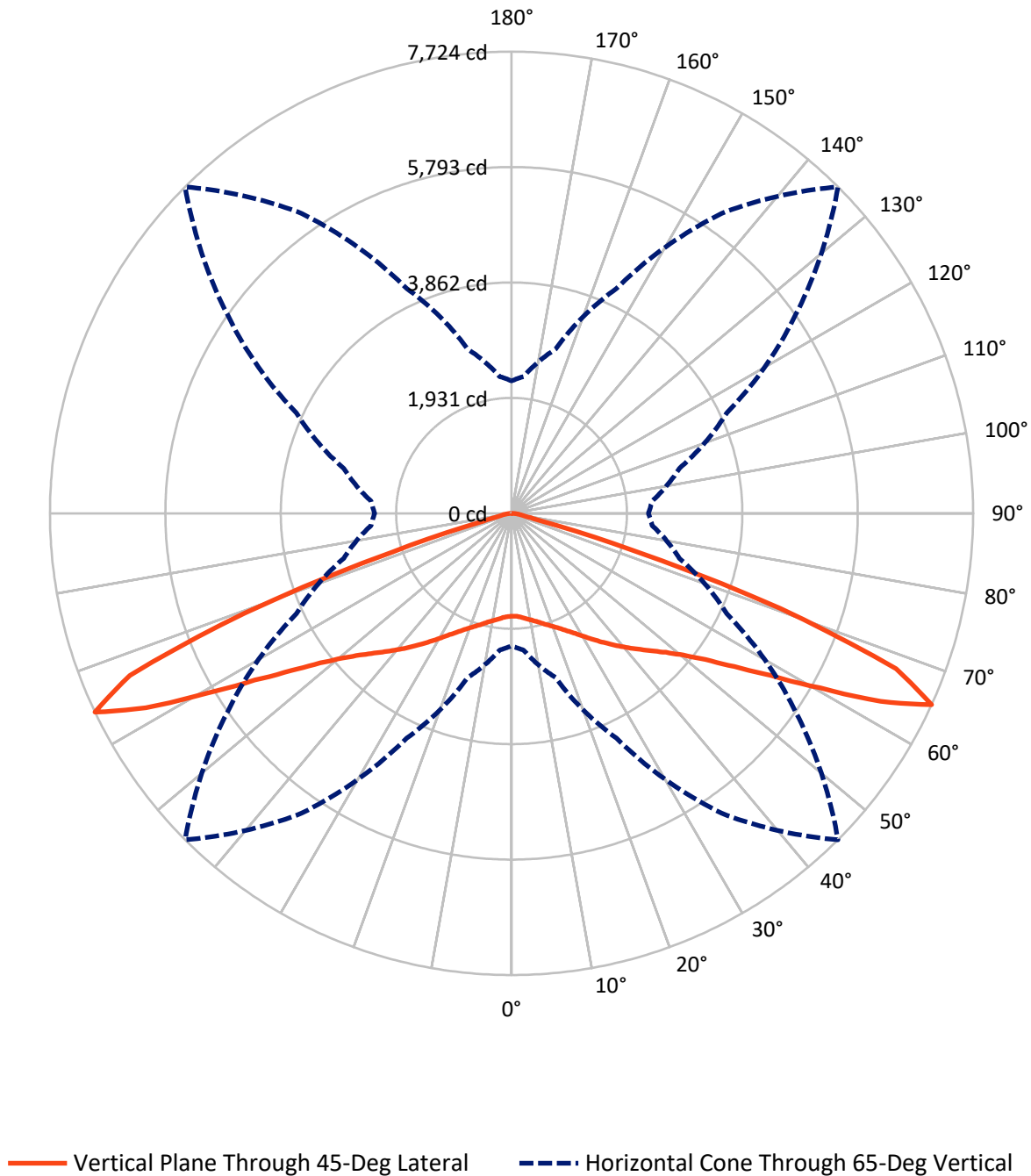
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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	7127.5	0.0	7127.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7127.5	0.0	7127.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	14255.0	0.0	14255.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	1.2
10°-20°	542.9	3.8
20°-30°	1018.6	7.1
30°-40°	1684.5	11.8
40°-50°	2609.1	18.3
50°-60°	4001.6	28.1
60°-70°	3733.9	26.2
70°-80°	434.6	3.0
80°-90°	61.1	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°	14255.0	100.0
0°-180°	14255.0	100.0

Coefficient of Utilization



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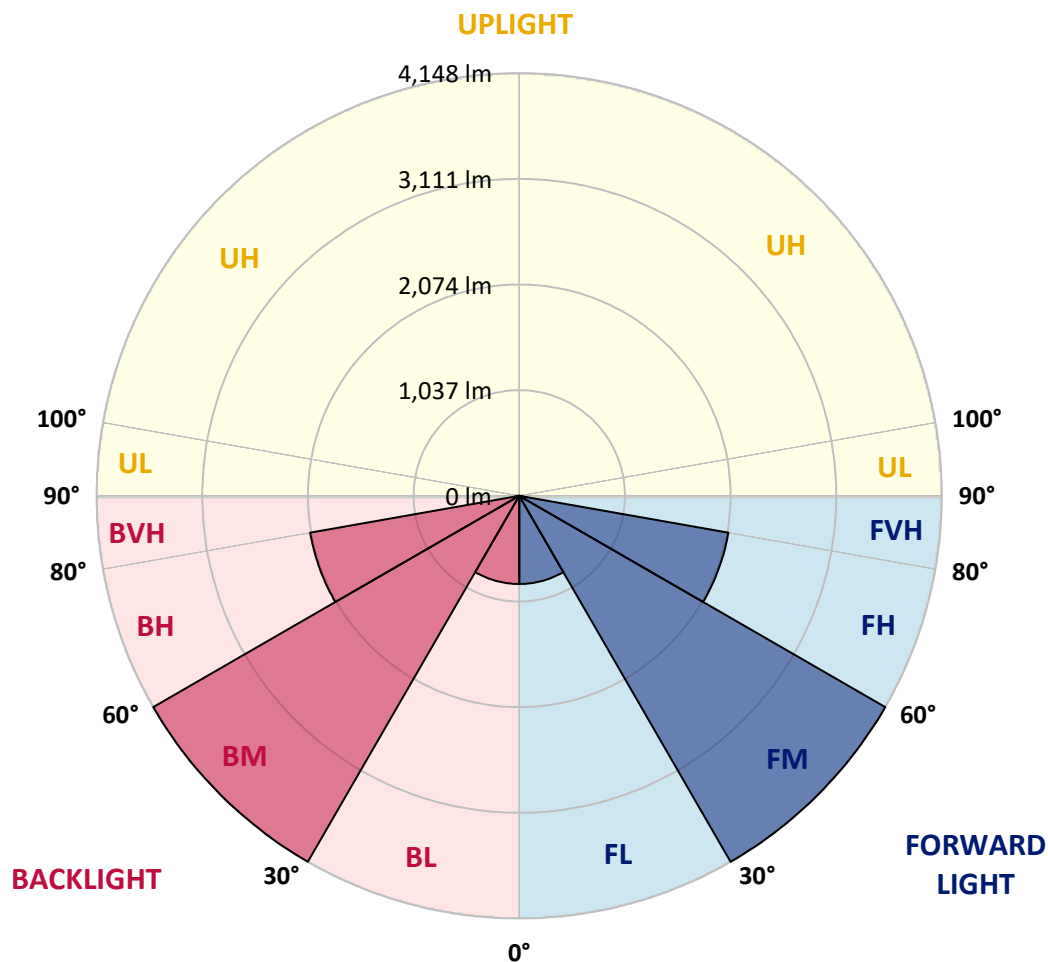
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	865.2	6.1			
FM	(30°-60°)	4147.6	29.1			
FH	(60°-80°)	2084.2	14.6			G2/5000
FVH	(80°-90°)	30.5	0.2			G1/100
BL	(0°-30°)	865.2	6.1	B2/1000		
BM	(30°-60°)	4147.6	29.1	B3/5000		
BH	(60°-80°)	2084.2	14.6	B3/2500		G2/5000
BVH	(80°-90°)	30.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1721.5	1721.5	1721.5	1721.5	1721.5	1721.5	1721.5	1721.5	1721.5	1721.5	1721.5
2.5°	1727.2	1726.2	1727.2	1727.6	1724.8	1726.2	1725.7	1728.1	1729.0	1728.1	1728.1
5°	1747.0	1745.6	1747.5	1749.9	1746.1	1747.0	1745.6	1748.4	1749.4	1747.5	1748.9
7.5°	1774.5	1774.9	1776.8	1781.1	1778.7	1780.6	1777.8	1778.3	1777.8	1774.9	1775.4
10°	1804.3	1804.8	1808.1	1813.7	1814.7	1814.7	1812.8	1811.4	1809.5	1807.6	1808.1
12.5°	1840.2	1842.6	1845.0	1852.1	1852.1	1855.9	1854.9	1851.1	1847.8	1845.0	1845.0
15°	1889.0	1888.5	1891.3	1898.4	1901.8	1907.9	1907.9	1902.7	1898.4	1895.6	1894.7
17.5°	1940.1	1941.5	1943.4	1951.9	1957.1	1964.2	1965.2	1960.9	1958.1	1954.3	1951.9
20°	1999.7	2002.1	2009.6	2013.0	2017.7	2024.3	2026.7	2025.7	2022.9	2021.0	2021.5
22.5°	2069.3	2075.4	2080.2	2084.9	2090.6	2095.3	2097.7	2101.0	2098.1	2096.7	2095.8
25°	2153.5	2157.8	2167.2	2175.7	2179.5	2180.9	2183.8	2188.5	2188.0	2184.7	2184.7
27.5°	2249.1	2257.1	2269.0	2281.3	2281.3	2276.5	2286.0	2294.0	2291.2	2286.9	2281.3
30°	2365.0	2372.6	2386.3	2403.3	2394.8	2391.5	2404.3	2419.0	2414.7	2407.6	2406.7
32.5°	2489.9	2497.0	2515.0	2533.5	2522.6	2517.9	2531.6	2552.9	2545.3	2531.1	2522.6
35°	2625.3	2632.4	2657.9	2680.2	2661.7	2653.7	2665.0	2688.2	2675.0	2648.5	2641.8
37.5°	2772.4	2776.2	2809.3	2832.1	2819.3	2798.0	2812.2	2829.2	2817.9	2785.7	2772.9
40°	2925.3	2939.0	2977.3	3003.8	2981.6	2948.0	2971.6	2995.3	2978.3	2937.1	2915.3
42.5°	3103.7	3114.1	3165.2	3188.8	3152.9	3105.6	3137.7	3169.9	3152.9	3113.1	3094.2
45°	3289.2	3305.2	3366.3	3389.9	3337.9	3277.8	3317.1	3373.4	3372.0	3314.7	3294.8
47.5°	3491.2	3507.3	3580.2	3611.4	3555.1	3474.6	3530.0	3609.5	3603.8	3540.9	3524.8
50°	3724.5	3741.5	3832.4	3871.7	3819.1	3725.4	3808.7	3878.8	3868.3	3790.7	3792.2
52.5°	4017.4	4016.5	4129.5	4197.7	4143.7	4060.9	4137.6	4205.7	4162.7	4055.3	4051.9
55°	4273.9	4289.5	4429.5	4558.7	4555.4	4523.7	4554.5	4557.3	4434.3	4291.4	4273.9
57.5°	4442.3	4472.1	4669.5	4903.2	5078.3	5120.4	5060.8	4880.0	4591.9	4363.3	4335.4
60°	4338.7	4384.1	4694.1	5170.6	5686.3	5933.8	5597.4	5036.7	4469.3	4150.8	4113.0
62.5°	3639.3	3716.0	4169.8	5041.4	6209.7	6933.2	5986.3	4785.4	3981.9	3543.3	3478.4
65°	2216.4	2297.3	2844.4	4149.4	6125.0	7724.4	5808.9	3972.0	2906.3	2360.8	2290.7
67.5°	738.7	762.3	1084.6	2293.6	4813.8	6940.3	4821.8	2377.8	1264.8	838.5	813.9
70°	289.1	291.5	344.0	664.8	2273.2	4766.9	2508.4	676.7	359.6	284.4	290.5
72.5°	212.5	213.4	228.1	277.8	592.4	2100.0	613.7	279.2	221.9	199.2	199.2
75°	170.8	170.8	181.2	202.5	265.5	481.7	269.2	200.2	173.7	159.0	157.1
77.5°	134.9	137.7	145.7	159.5	179.8	231.9	186.4	158.5	140.1	126.3	123.5
80°	100.3	103.2	116.4	123.0	129.2	160.9	137.7	124.0	110.7	94.6	91.8
82.5°	65.8	68.6	85.2	89.0	87.5	105.0	92.7	91.3	81.4	61.0	58.2
85°	43.1	44.0	56.8	59.1	54.4	47.8	59.1	62.5	56.8	39.7	38.3
87.5°	20.3	20.3	28.9	27.0	24.6	19.9	27.0	31.7	32.2	19.4	18.9
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)