

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: P316388

Luminaire Tested: **GAN-SA4A-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316388
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-SA4A-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16514 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

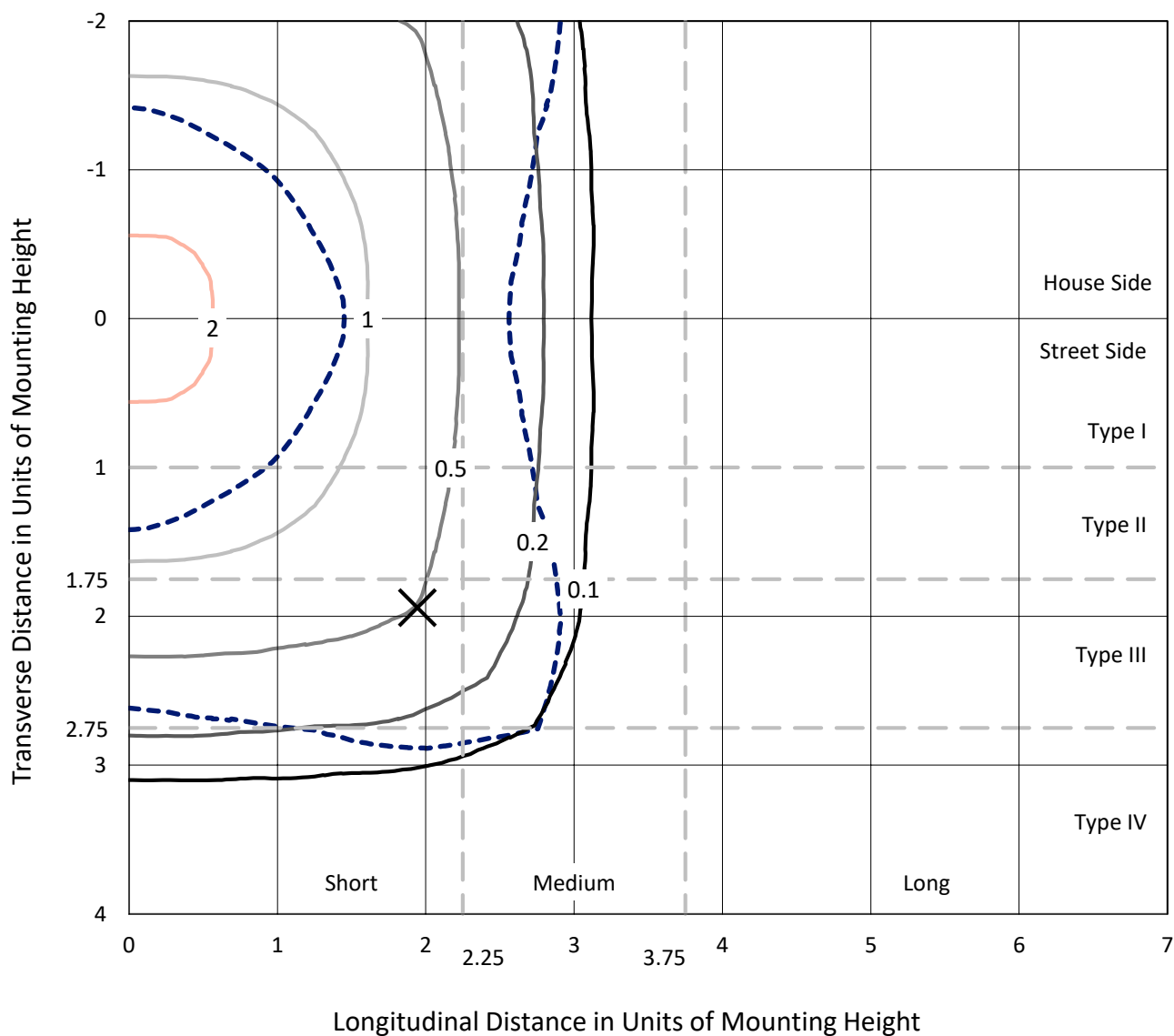
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

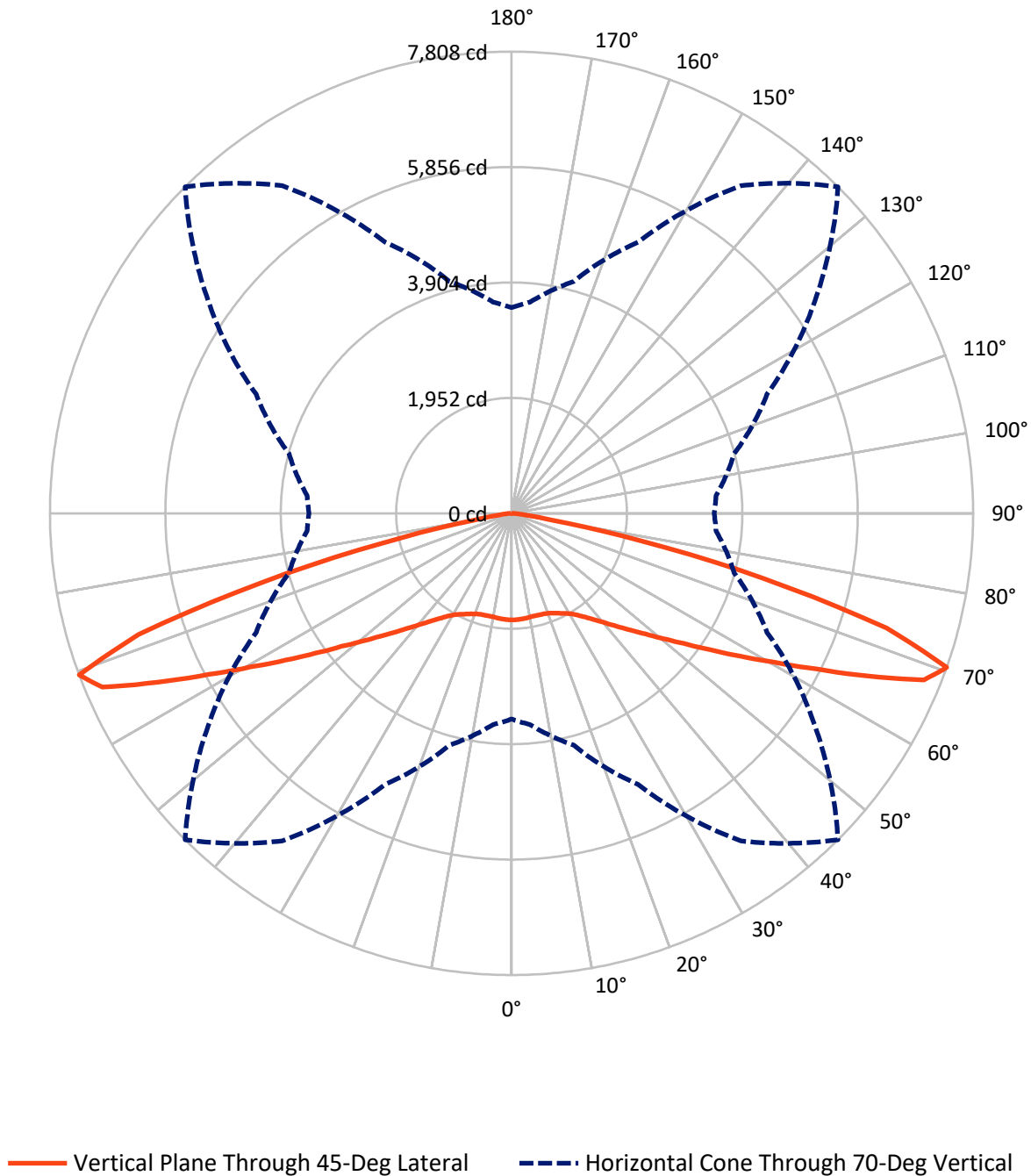
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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	8257.0	0.0	8257.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8257.0	0.0	8257.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	16514.0	0.0	16514.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	1.0
10°-20°	501.5	3.0
20°-30°	853.7	5.2
30°-40°	1353.9	8.2
40°-50°	2203.3	13.3
50°-60°	3632.8	22.0
60°-70°	5333.0	32.3
70°-80°	2358.2	14.3
80°-90°	106.8	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°	16514.0	100.0
0°-180°	16514.0	100.0

Coefficient of Utilization



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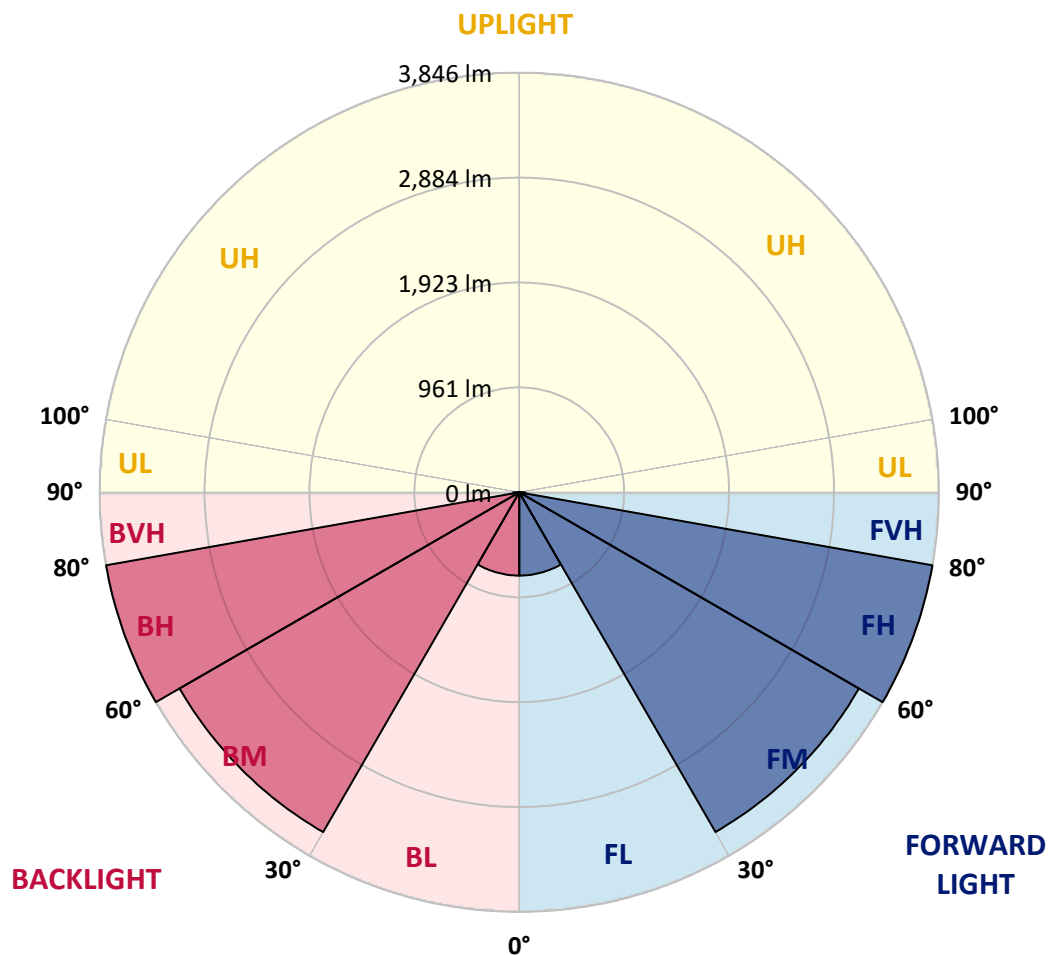
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	763.0	4.6			
FM	(30°-60°)	3595.0	21.8			
FH	(60°-80°)	3845.6	23.3			G2/5000
FVH	(80°-90°)	53.4	0.3			G1/100
BL	(0°-30°)	763.0	4.6	B2/1000		
BM	(30°-60°)	3595.0	21.8	B3/5000		
BH	(60°-80°)	3845.6	23.3	B4/5000		G2/5000
BVH	(80°-90°)	53.4	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6	1803.6
2.5°	1800.9	1799.2	1803.0	1802.5	1799.2	1799.8	1799.8	1801.4	1801.4	1800.3	1800.3
5°	1794.3	1793.2	1797.6	1797.6	1794.3	1795.4	1796.5	1798.1	1797.6	1796.5	1795.9
7.5°	1786.1	1785.5	1789.9	1789.9	1787.7	1788.8	1787.7	1788.3	1787.2	1786.1	1784.5
10°	1772.4	1773.5	1777.4	1778.4	1778.4	1779.0	1777.9	1775.2	1773.5	1771.9	1770.2
12.5°	1759.9	1759.3	1764.8	1767.5	1771.9	1776.8	1773.5	1765.9	1762.6	1759.3	1758.2
15°	1751.7	1752.2	1757.7	1762.6	1770.2	1780.6	1776.8	1764.8	1758.2	1754.4	1753.3
17.5°	1750.0	1751.1	1758.2	1767.0	1775.2	1786.6	1784.5	1772.4	1761.5	1754.4	1752.8
20°	1753.9	1754.4	1765.3	1777.9	1792.1	1803.0	1798.1	1785.0	1770.2	1759.3	1756.6
22.5°	1761.0	1763.1	1776.8	1796.5	1818.3	1833.1	1827.1	1804.7	1781.7	1768.1	1764.2
25°	1783.4	1783.9	1802.5	1829.3	1855.5	1872.4	1865.3	1833.6	1804.1	1788.8	1783.9
27.5°	1829.8	1831.5	1850.0	1881.2	1903.6	1914.5	1910.2	1884.5	1859.3	1842.9	1844.6
30°	1897.0	1899.2	1920.0	1954.4	1968.1	1970.8	1969.7	1957.7	1934.8	1912.9	1914.5
32.5°	1979.0	1980.1	2008.0	2039.1	2050.1	2052.3	2050.1	2039.1	2011.8	1982.3	1983.9
35°	2084.5	2087.8	2114.6	2144.6	2153.4	2157.7	2153.9	2139.7	2111.3	2082.3	2081.2
37.5°	2214.6	2215.1	2243.0	2274.2	2285.1	2286.2	2281.8	2272.5	2237.0	2210.8	2209.1
40°	2365.4	2367.6	2400.4	2433.7	2438.1	2433.2	2439.2	2433.7	2397.1	2367.1	2372.0
42.5°	2549.1	2554.0	2593.3	2626.1	2613.6	2610.8	2614.7	2616.3	2586.8	2550.2	2546.9
45°	2762.8	2767.1	2816.3	2842.6	2834.4	2816.3	2824.0	2837.1	2796.1	2750.7	2755.1
47.5°	3006.5	3017.5	3069.9	3094.5	3074.3	3049.7	3064.5	3084.1	3036.0	2979.7	2977.0
50°	3277.6	3291.3	3361.2	3395.7	3375.4	3330.1	3354.7	3367.8	3298.4	3225.7	3219.7
52.5°	3566.7	3580.4	3668.4	3739.4	3726.3	3655.8	3690.2	3676.6	3596.8	3499.0	3491.3
55°	3894.1	3899.6	3994.7	4109.4	4122.6	4070.6	4068.5	4046.0	3928.0	3814.9	3809.4
57.5°	4230.8	4234.6	4357.6	4493.1	4554.9	4554.9	4493.7	4446.1	4289.3	4158.1	4144.4
60°	4594.2	4607.9	4744.0	4928.2	5072.4	5115.1	5006.9	4877.3	4706.8	4546.7	4530.8
62.5°	4917.8	4933.6	5141.9	5416.2	5648.0	5803.2	5538.6	5327.7	5017.2	4760.4	4730.3
65°	4958.8	5001.4	5304.7	5801.5	6320.2	6630.1	6122.9	5603.1	5037.5	4680.6	4650.0
67.5°	4528.6	4600.8	5010.7	5784.0	6855.8	7521.0	6496.2	5445.7	4674.6	4280.0	4246.1
70°	3479.8	3584.8	4057.5	5059.3	6763.4	7807.9	6262.3	4767.5	3897.4	3472.7	3425.2
72.5°	1909.1	1952.2	2377.5	3464.5	5422.2	6635.0	5223.3	3525.2	2584.6	2103.1	2023.3
75°	605.6	620.9	837.3	1417.7	3067.2	4394.7	3318.1	1730.3	952.6	702.3	694.1
77.5°	268.9	270.5	302.8	413.7	1056.5	2226.6	1269.1	471.1	324.6	283.7	292.9
80°	170.0	170.0	187.5	205.0	287.5	646.6	343.2	224.1	191.3	177.6	181.5
82.5°	81.4	90.2	121.9	131.2	158.0	217.5	176.0	146.5	127.9	95.1	88.5
85°	53.6	44.8	77.1	86.9	91.8	104.4	102.2	96.7	83.6	47.5	53.0
87.5°	24.0	23.0	39.9	36.6	34.4	26.2	39.4	48.6	47.0	23.5	23.5
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)