

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: P316416

Luminaire Tested: **GAN-SA2D-727-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316416
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-SA2D-727-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13946 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

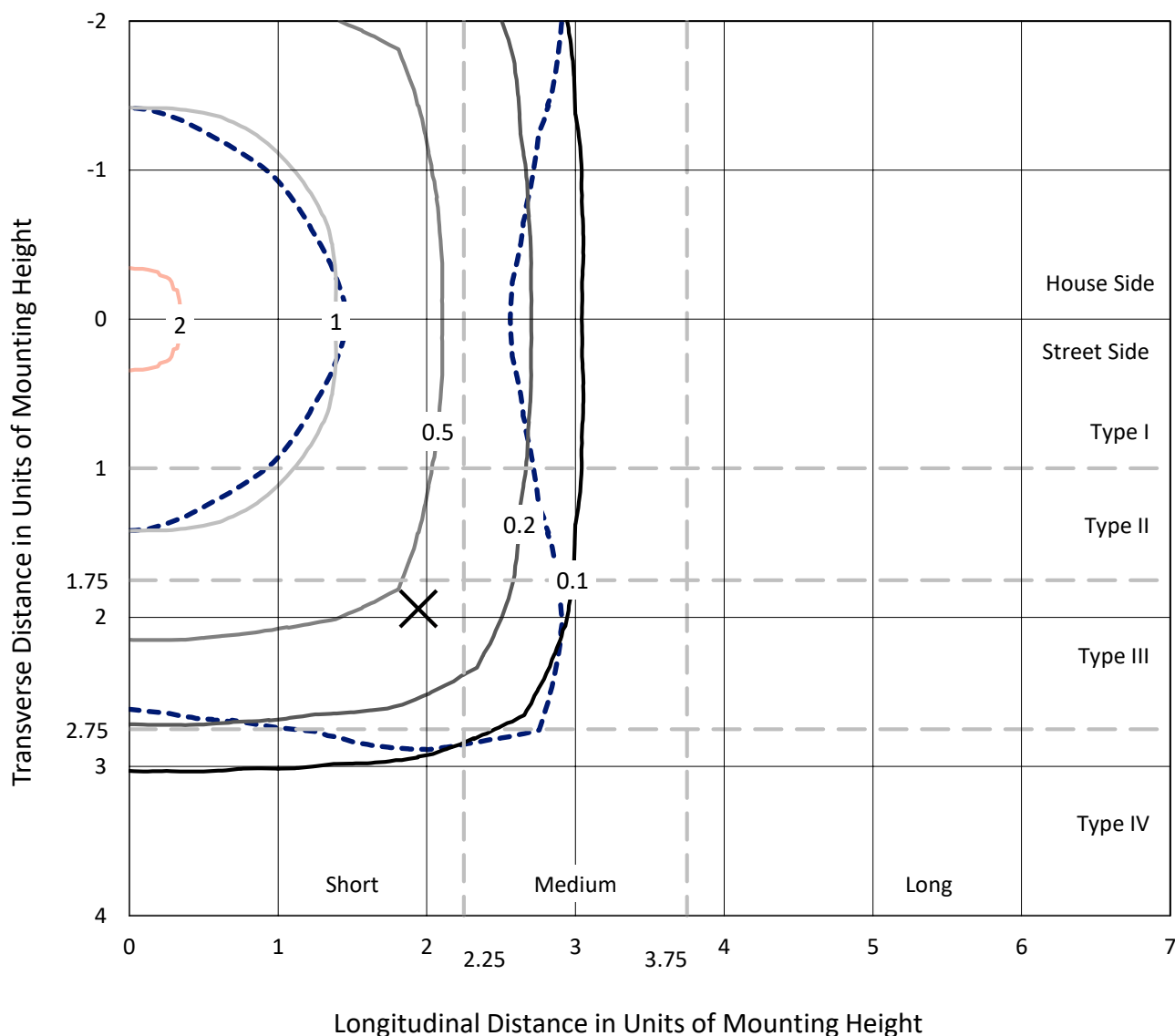
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

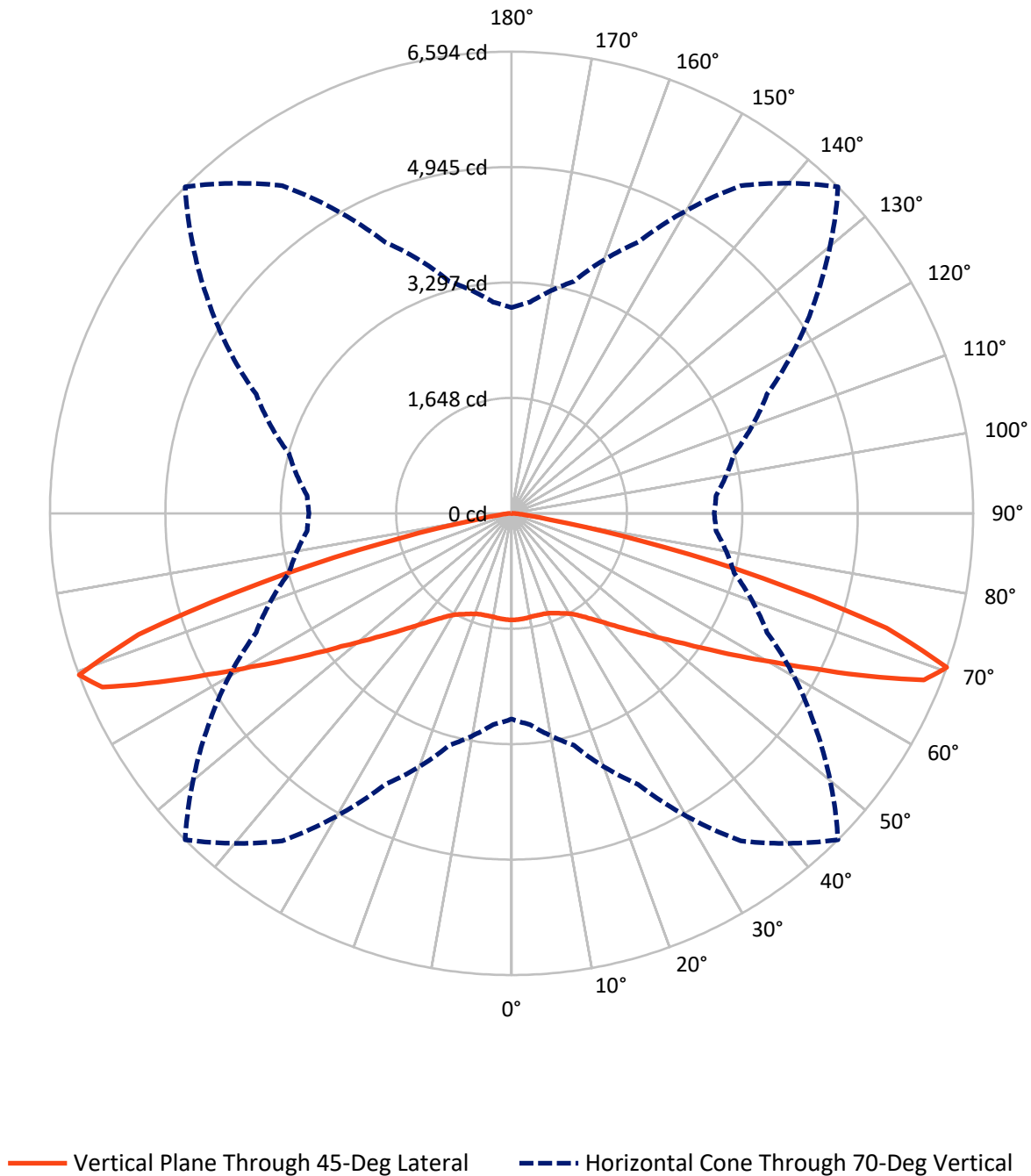
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	6973.0	0.0	6973.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6973.0	0.0	6973.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	13946.0	0.0	13946.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	1.0
10°-20°	423.5	3.0
20°-30°	720.9	5.2
30°-40°	1143.4	8.2
40°-50°	1860.6	13.3
50°-60°	3067.9	22.0
60°-70°	4503.7	32.3
70°-80°	1991.5	14.3
80°-90°	90.2	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°	13946.0	100.0
0°-180°	13946.0	100.0

Coefficient of Utilization



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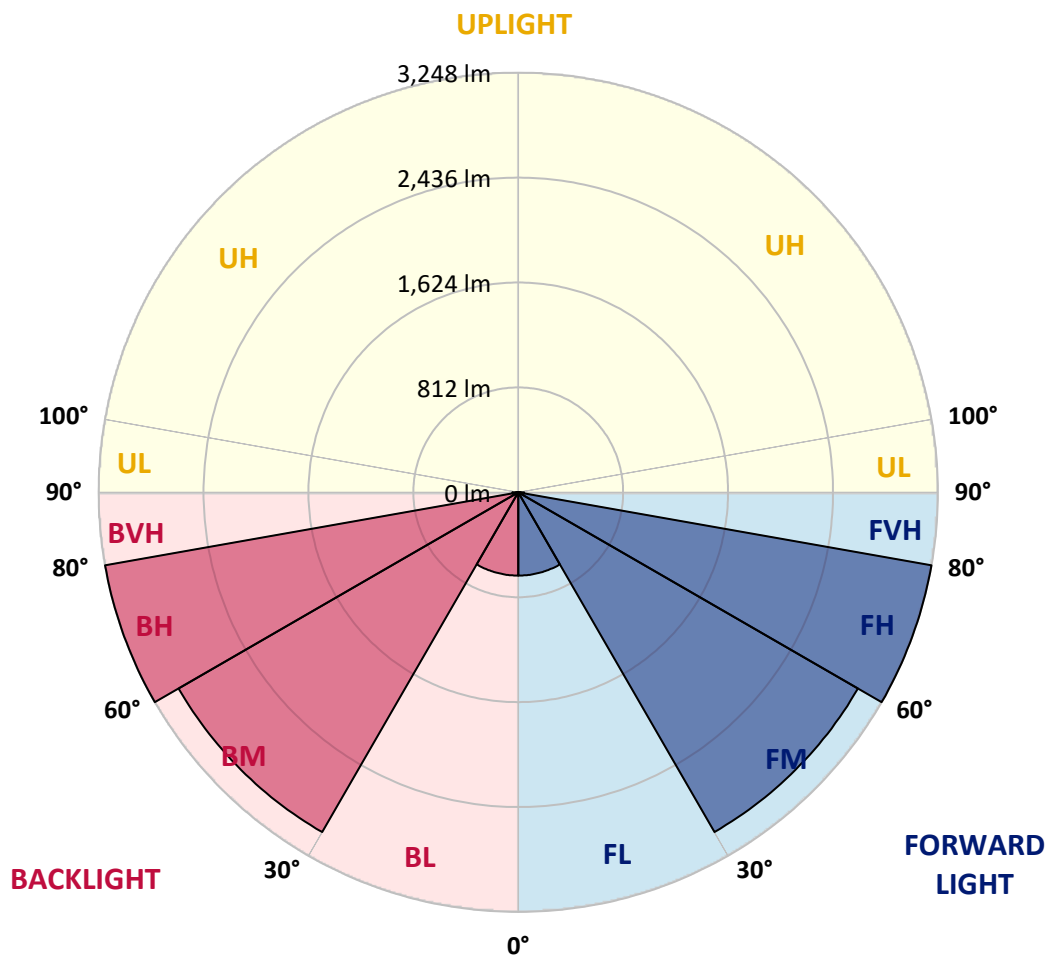
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	644.3	4.6			
FM	(30°-60°)	3035.9	21.8			
FH	(60°-80°)	3247.6	23.3			G2/5000
FVH	(80°-90°)	45.1	0.3			G1/100
BL	(0°-30°)	644.3	4.6	B2/1000		
BM	(30°-60°)	3035.9	21.8	B3/5000		
BH	(60°-80°)	3247.6	23.3	B4/5000		G2/5000
BVH	(80°-90°)	45.1	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°	1523.1	1523.1	1523.1	1523.1	1523.1	1523.1	1523.1	1523.1	1523.1	1523.1	1523.1
2.5°	1520.8	1519.4	1522.7	1522.2	1519.4	1519.9	1519.9	1521.3	1521.3	1520.4	1520.4
5°	1515.3	1514.4	1518.0	1518.0	1515.3	1516.2	1517.1	1518.5	1518.0	1517.1	1516.7
7.5°	1508.4	1507.9	1511.6	1511.6	1509.7	1510.7	1509.7	1510.2	1509.3	1508.4	1507.0
10°	1496.8	1497.7	1501.0	1501.9	1501.9	1502.4	1501.4	1499.1	1497.7	1496.4	1495.0
12.5°	1486.2	1485.7	1490.4	1492.7	1496.4	1500.5	1497.7	1491.3	1488.5	1485.7	1484.8
15°	1479.3	1479.7	1484.3	1488.5	1495.0	1503.7	1500.5	1490.4	1484.8	1481.6	1480.7
17.5°	1477.9	1478.8	1484.8	1492.2	1499.1	1508.8	1507.0	1496.8	1487.6	1481.6	1480.2
20°	1481.1	1481.6	1490.8	1501.4	1513.4	1522.7	1518.5	1507.4	1495.0	1485.7	1483.4
22.5°	1487.1	1489.0	1500.5	1517.1	1535.6	1548.0	1543.0	1524.0	1504.7	1493.1	1489.9
25°	1506.0	1506.5	1522.2	1544.8	1567.0	1581.3	1575.3	1548.5	1523.6	1510.7	1506.5
27.5°	1545.3	1546.7	1562.4	1588.7	1607.6	1616.8	1613.1	1591.4	1570.2	1556.4	1557.7
30°	1602.0	1603.9	1621.4	1650.5	1662.0	1664.4	1663.4	1653.3	1633.9	1615.4	1616.8
32.5°	1671.3	1672.2	1695.7	1722.0	1731.3	1733.1	1731.3	1722.0	1699.0	1674.0	1675.4
35°	1760.4	1763.1	1785.7	1811.1	1818.5	1822.2	1819.0	1807.0	1783.0	1758.5	1757.6
37.5°	1870.2	1870.7	1894.2	1920.5	1929.7	1930.7	1927.0	1919.1	1889.1	1867.0	1865.6
40°	1997.6	1999.4	2027.1	2055.3	2059.0	2054.8	2059.9	2055.3	2024.4	1999.0	2003.1
42.5°	2152.7	2156.8	2190.1	2217.8	2207.1	2204.8	2208.1	2209.4	2184.5	2153.6	2150.8
45°	2333.1	2336.8	2378.4	2400.5	2393.6	2378.4	2384.8	2395.9	2361.3	2323.0	2326.7
47.5°	2539.0	2548.2	2592.5	2613.3	2596.2	2575.5	2587.9	2604.5	2563.9	2516.4	2514.1
50°	2767.9	2779.5	2838.5	2867.6	2850.5	2812.2	2833.0	2844.1	2785.5	2724.1	2719.0
52.5°	3012.1	3023.6	3097.9	3157.9	3146.9	3087.3	3116.4	3104.9	3037.5	2954.9	2948.4
55°	3288.6	3293.2	3373.5	3470.4	3481.5	3437.6	3435.8	3416.9	3317.2	3221.6	3217.0
57.5°	3572.9	3576.1	3680.0	3794.4	3846.6	3846.6	3794.9	3754.7	3622.3	3511.5	3499.9
60°	3879.8	3891.3	4006.3	4161.8	4283.7	4319.7	4228.3	4118.9	3974.9	3839.6	3826.3
62.5°	4153.0	4166.4	4342.3	4574.0	4769.7	4900.8	4677.4	4499.2	4237.0	4020.1	3994.7
65°	4187.7	4223.7	4479.8	4899.4	5337.4	5599.1	5170.8	4731.8	4254.1	3952.7	3926.9
67.5°	3824.4	3885.3	4231.5	4884.6	5789.7	6351.4	5486.0	4598.9	3947.7	3614.4	3585.8
70°	2938.7	3027.3	3426.6	4272.6	5711.7	6593.7	5288.5	4026.1	3291.3	2932.7	2892.5
72.5°	1612.2	1648.7	2007.7	2925.8	4579.1	5603.2	4411.0	2977.0	2182.7	1776.1	1708.7
75°	511.4	524.3	707.1	1197.3	2590.2	3711.3	2802.1	1461.3	804.5	593.1	586.2
77.5°	227.1	228.5	255.7	349.4	892.2	1880.4	1071.7	397.9	274.2	239.5	247.4
80°	143.5	143.5	158.3	173.1	242.8	546.0	289.9	189.2	161.5	150.0	153.2
82.5°	68.8	76.2	102.9	110.8	133.4	183.7	148.6	123.7	108.0	80.3	74.8
85°	45.2	37.8	65.1	73.4	77.5	88.2	86.3	81.7	70.6	40.2	44.8
87.5°	20.3	19.4	33.7	30.9	29.1	22.2	33.2	41.1	39.7	19.8	19.8
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)