

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: P316456

Luminaire Tested: **GAN-SA2D-730-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316456
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-730-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 15187 lumens
Efficiency: N/A
Efficacy: 117.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

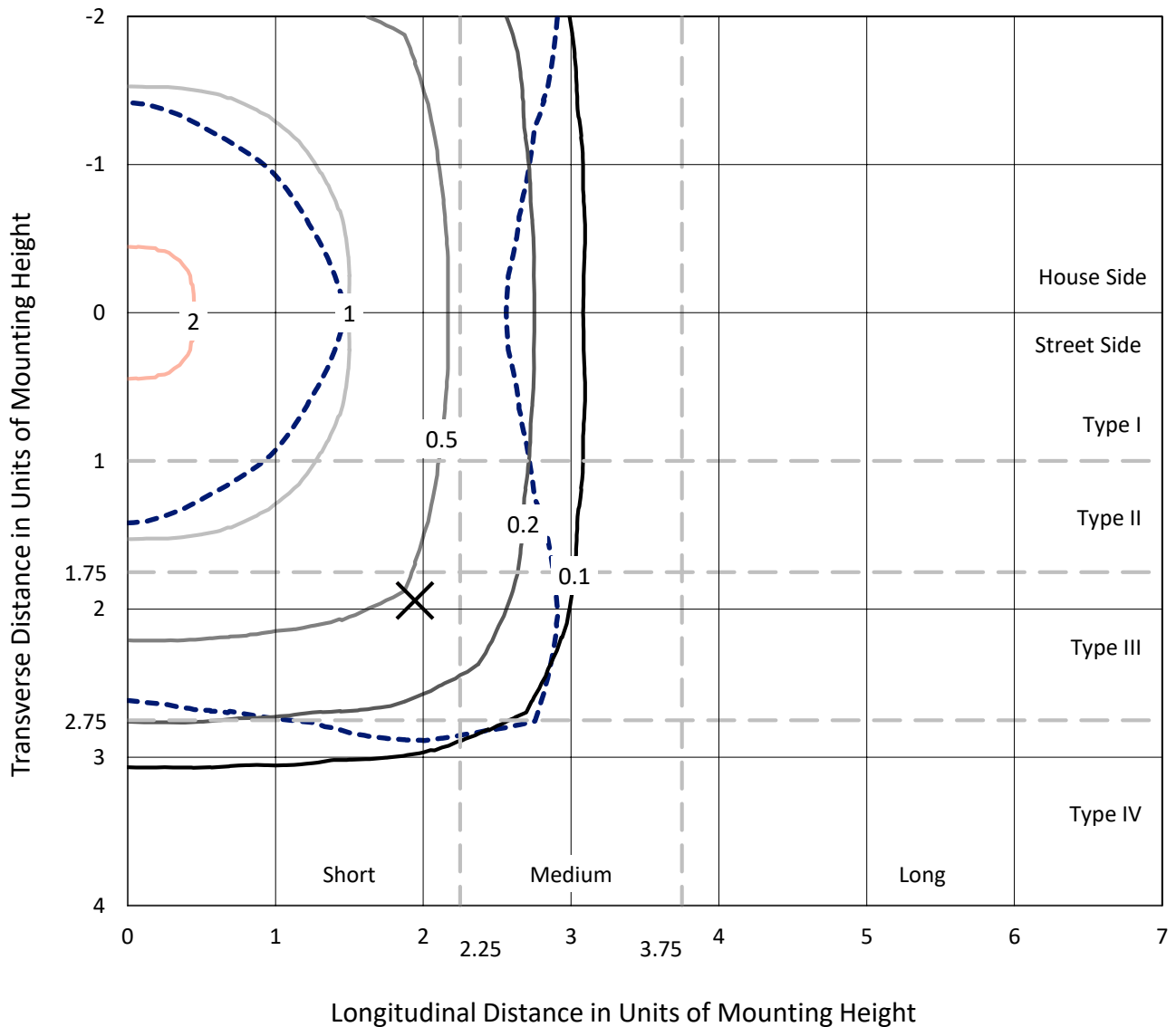
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P316456
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Iso-Footcandle Lines of Horizontal Illumination

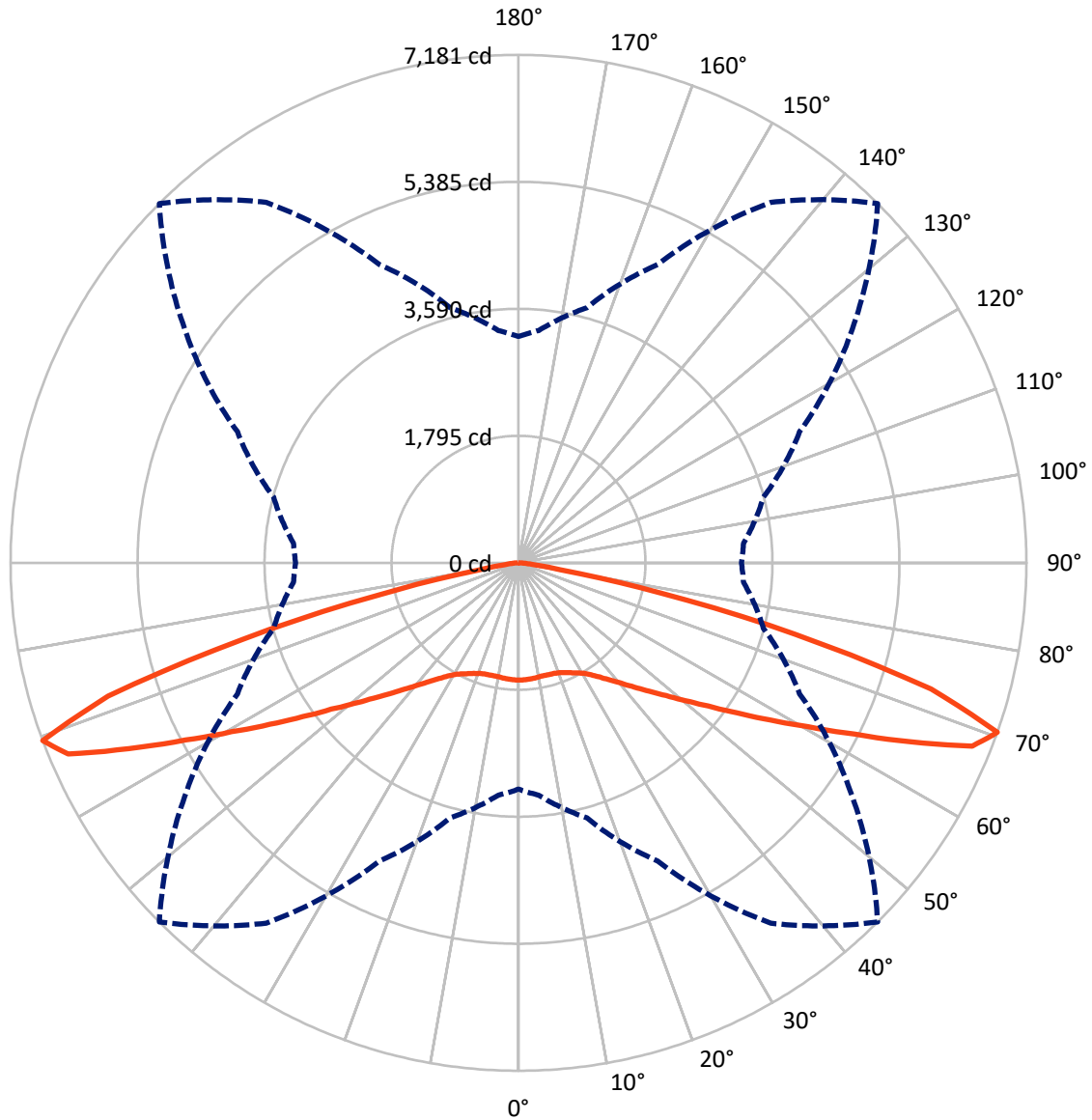
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

REPORT NUMBER: P316456
CATALOG NUMBER: GAN-SA2D-730-U-5MQ

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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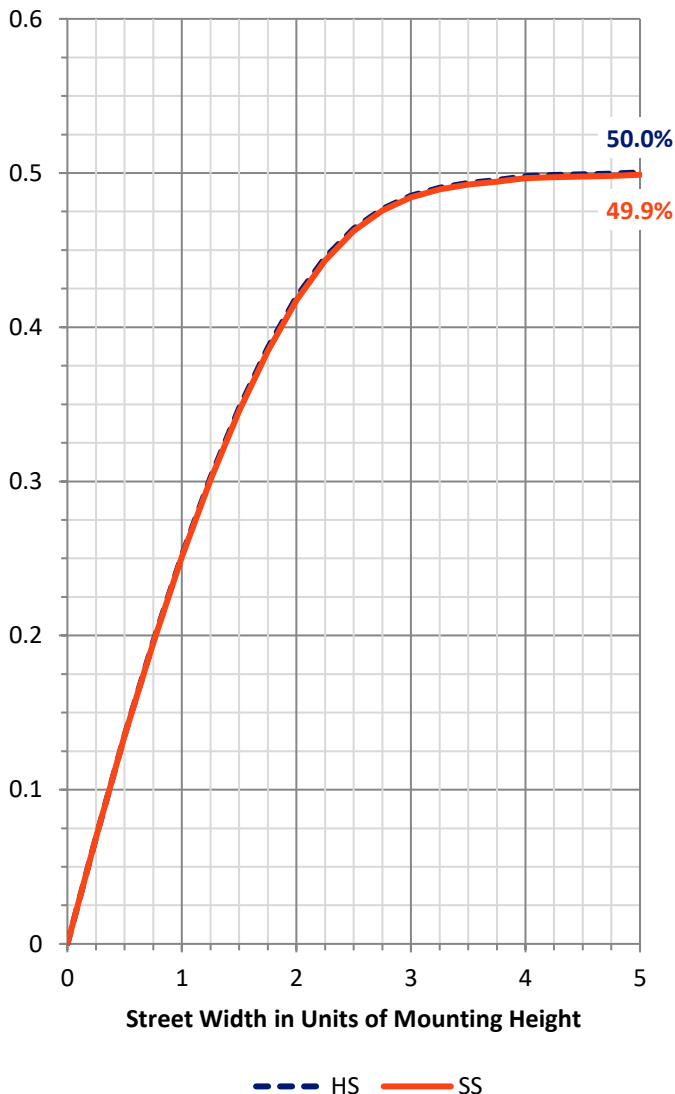
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7593.5	0.0	7593.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7593.5	0.0	7593.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	15187.0	0.0	15187.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.1	1.0
10°-20°	461.2	3.0
20°-30°	785.1	5.2
30°-40°	1245.1	8.2
40°-50°	2026.2	13.3
50°-60°	3340.9	22.0
60°-70°	4904.5	32.3
70°-80°	2168.8	14.3
80°-90°	98.2	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°	15187.0	100.0
0°-180°	15187.0	100.0



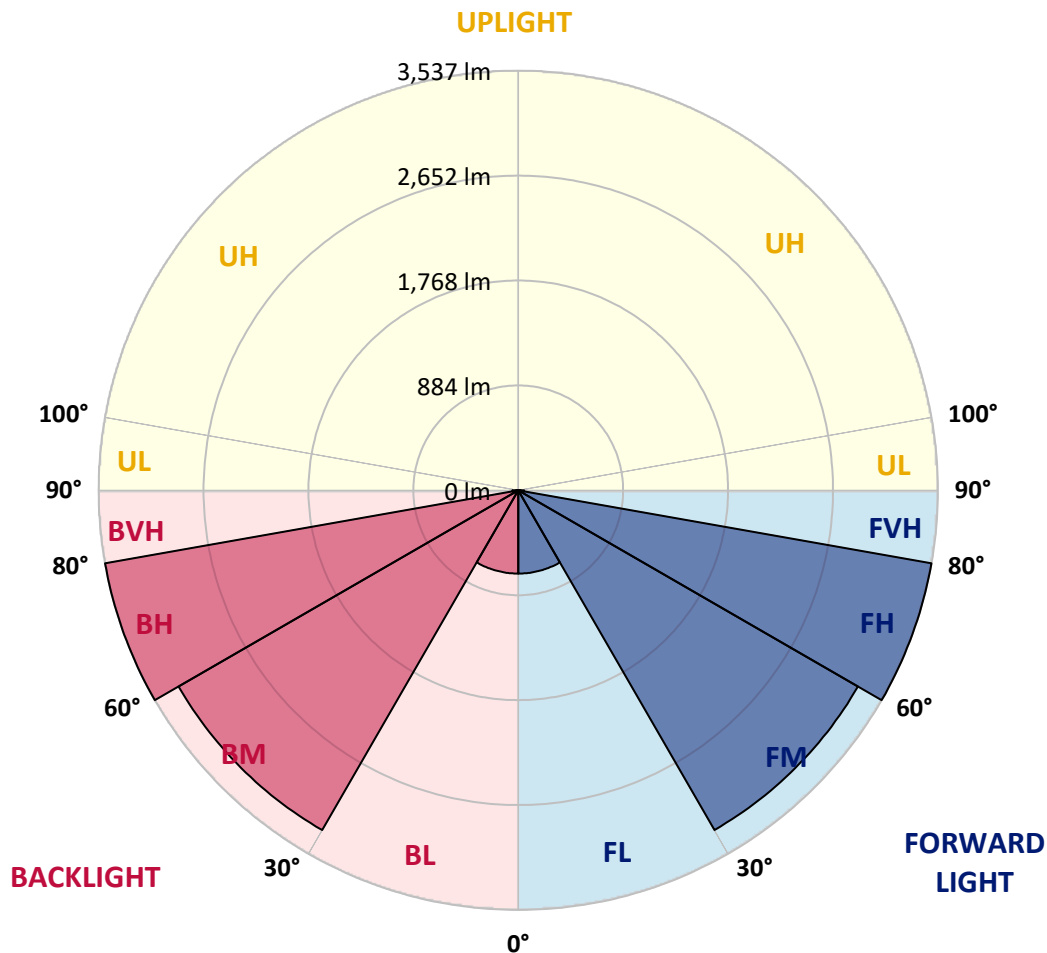
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 CATALOG NUMBER: GAN-SA2D-730-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	701.7	4.6			
FM (30°-60°)	3306.1	21.8			
FH (60°-80°)	3536.6	23.3			G2/5000
FVH (80°-90°)	49.1	0.3			G1/100
BL (0°-30°)	701.7	4.6	B2/1000		
BM (30°-60°)	3306.1	21.8	B3/5000		
BH (60°-80°)	3536.6	23.3	B4/5000		G2/5000
BVH (80°-90°)	49.1	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°	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1656.1	1654.6	1658.2	1657.7	1654.6	1655.1	1655.1	1656.6	1656.6	1655.6	1655.6
5°	1650.1	1649.1	1653.1	1653.1	1650.1	1651.1	1652.1	1653.6	1653.1	1652.1	1651.6
7.5°	1642.6	1642.1	1646.1	1646.1	1644.1	1645.1	1644.1	1644.6	1643.6	1642.6	1641.1
10°	1630.0	1631.0	1634.5	1635.5	1635.5	1636.0	1635.0	1632.5	1631.0	1629.5	1628.0
12.5°	1618.4	1617.9	1623.0	1625.5	1629.5	1634.0	1631.0	1624.0	1621.0	1617.9	1616.9
15°	1610.9	1611.4	1616.4	1621.0	1628.0	1637.5	1634.0	1623.0	1616.9	1613.4	1612.4
17.5°	1609.4	1610.4	1616.9	1625.0	1632.5	1643.1	1641.1	1630.0	1620.0	1613.4	1611.9
20°	1612.9	1613.4	1623.5	1635.0	1648.1	1658.2	1653.6	1641.6	1628.0	1617.9	1615.4
22.5°	1619.5	1621.5	1634.0	1652.1	1672.2	1685.8	1680.3	1659.7	1638.6	1626.0	1622.5
25°	1640.1	1640.6	1657.7	1682.3	1706.4	1722.0	1715.5	1686.3	1659.2	1645.1	1640.6
27.5°	1682.8	1684.3	1701.4	1730.0	1750.6	1760.7	1756.7	1733.0	1709.9	1694.8	1696.4
30°	1744.6	1746.6	1765.7	1797.4	1809.9	1812.5	1811.5	1800.4	1779.3	1759.2	1760.7
32.5°	1820.0	1821.0	1846.6	1875.3	1885.3	1887.4	1885.3	1875.3	1850.2	1823.0	1824.5
35°	1917.0	1920.0	1944.6	1972.3	1980.3	1984.4	1980.8	1967.8	1941.6	1915.0	1914.0
37.5°	2036.6	2037.1	2062.8	2091.4	2101.5	2102.5	2098.5	2089.9	2057.2	2033.1	2031.6
40°	2175.4	2177.4	2207.5	2238.2	2242.2	2237.7	2243.2	2238.2	2204.5	2176.9	2181.4
42.5°	2344.2	2348.8	2384.9	2415.1	2403.5	2401.0	2404.5	2406.1	2378.9	2345.2	2342.2
45°	2540.8	2544.8	2590.0	2614.1	2606.6	2590.0	2597.1	2609.1	2571.4	2529.7	2533.7
47.5°	2764.9	2775.0	2823.2	2845.9	2827.3	2804.6	2818.2	2836.3	2792.1	2740.3	2737.8
50°	3014.2	3026.8	3091.1	3122.8	3104.2	3062.5	3085.1	3097.2	3033.3	2966.5	2961.0
52.5°	3280.1	3292.7	3373.6	3438.9	3426.9	3362.0	3393.7	3381.1	3307.8	3217.8	3210.8
55°	3581.2	3586.2	3673.7	3779.2	3791.3	3743.5	3741.5	3720.9	3612.4	3508.3	3503.3
57.5°	3890.8	3894.3	4007.4	4132.1	4188.9	4188.9	4132.6	4088.8	3944.6	3824.0	3811.4
60°	4225.1	4237.6	4362.8	4532.2	4664.8	4704.1	4604.5	4485.4	4328.6	4181.3	4166.7
62.5°	4522.6	4537.2	4728.7	4981.0	5194.1	5336.9	5093.6	4899.6	4614.1	4377.8	4350.2
65°	4560.3	4599.5	4878.5	5335.3	5812.3	6097.3	5630.9	5152.9	4632.7	4304.5	4276.3
67.5°	4164.7	4231.1	4608.0	5319.3	6304.9	6916.6	5974.2	5008.1	4298.9	3936.0	3904.9
70°	3200.2	3296.7	3731.5	4652.8	6220.0	7180.5	5759.1	4384.4	3584.2	3193.7	3149.9
72.5°	1755.7	1795.4	2186.4	3186.1	4986.5	6101.8	4803.6	3241.9	2376.9	1934.1	1860.7
75°	556.9	571.0	770.0	1303.8	2820.7	4041.6	3051.4	1591.3	876.1	645.9	638.3
77.5°	247.3	248.8	278.5	380.5	971.6	2047.7	1167.1	433.3	298.6	260.9	269.4
80°	156.3	156.3	172.4	188.5	264.4	594.6	315.6	206.1	175.9	163.4	166.9
82.5°	74.9	82.9	112.1	120.6	145.3	200.0	161.8	134.7	117.6	87.5	81.4
85°	49.3	41.2	70.9	79.9	84.4	96.0	94.0	89.0	76.9	43.7	48.8
87.5°	22.1	21.1	36.7	33.7	31.7	24.1	36.2	44.7	43.2	21.6	21.6
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)