

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: P479641

Luminaire Tested: **IFLD-S-SA3D-730-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479641  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-730-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (48) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

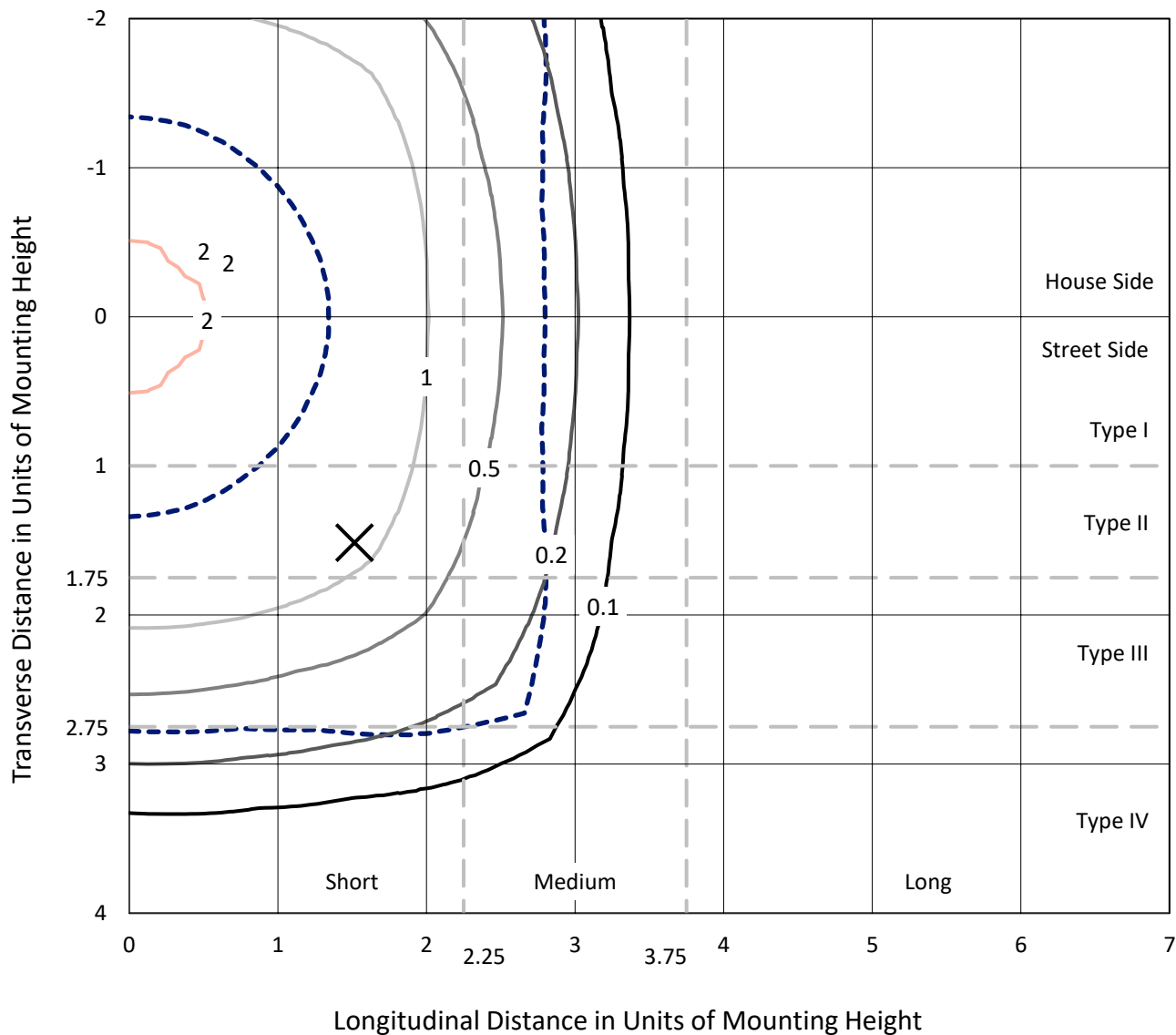
Lumens per Lamp: N/A  
Luminaire Lumens: 21779.2 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 184.1  
Input Voltage (V): 120  
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

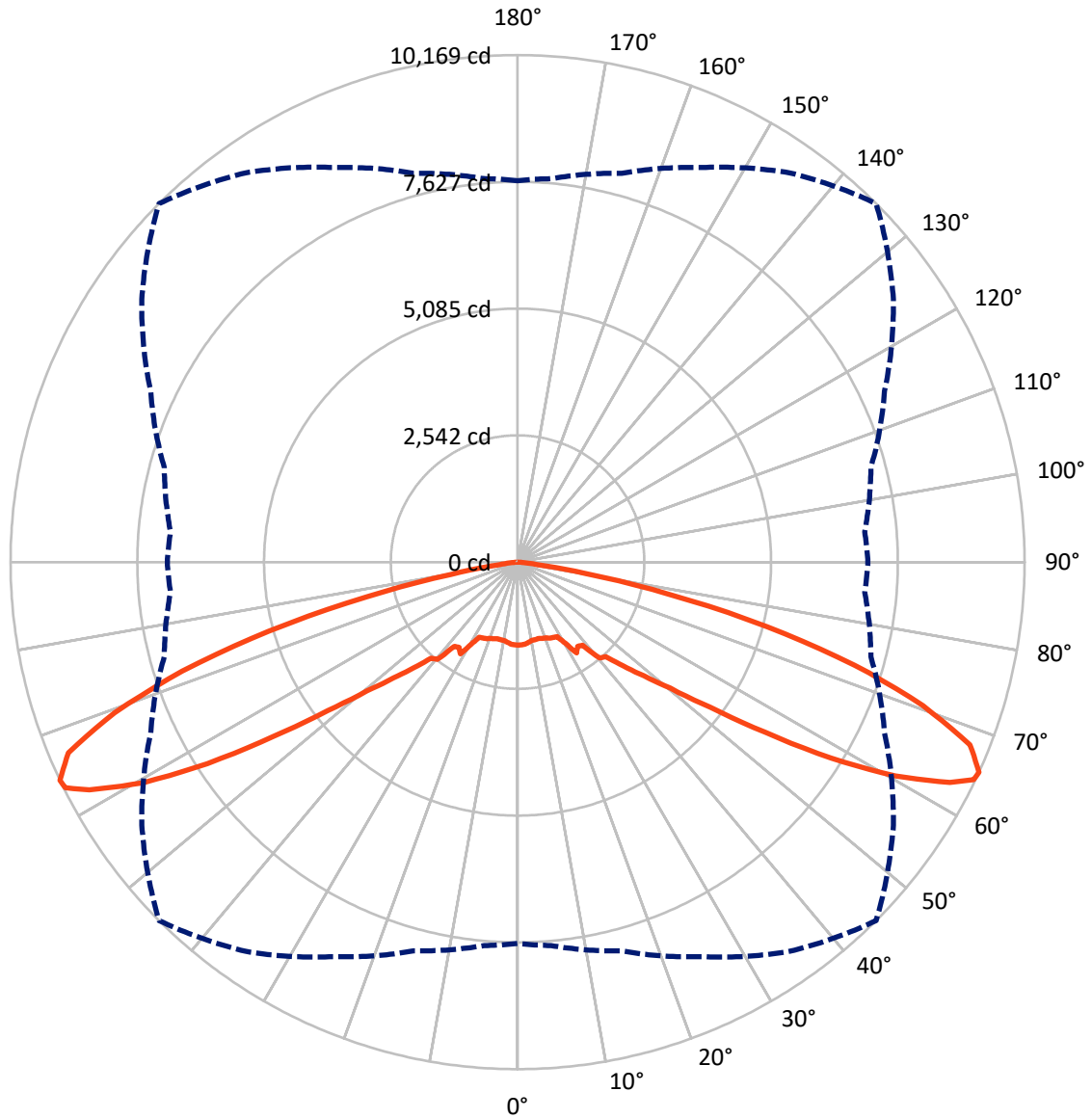
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10889.6	0.0	10889.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	10889.6	0.0	10889.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	21779.2	0.0	21779.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.3	0.7
10°-20°	459.0	2.1
20°-30°	794.5	3.6
30°-40°	1321.1	6.1
40°-50°	2383.5	10.9
50°-60°	5309.7	24.4
60°-70°	7913.2	36.3
70°-80°	3279.3	15.1
80°-90°	162.4	0.7
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°	21779.2	100.0
0°-180°	21779.2	100.0

**Coefficient of Utilization**



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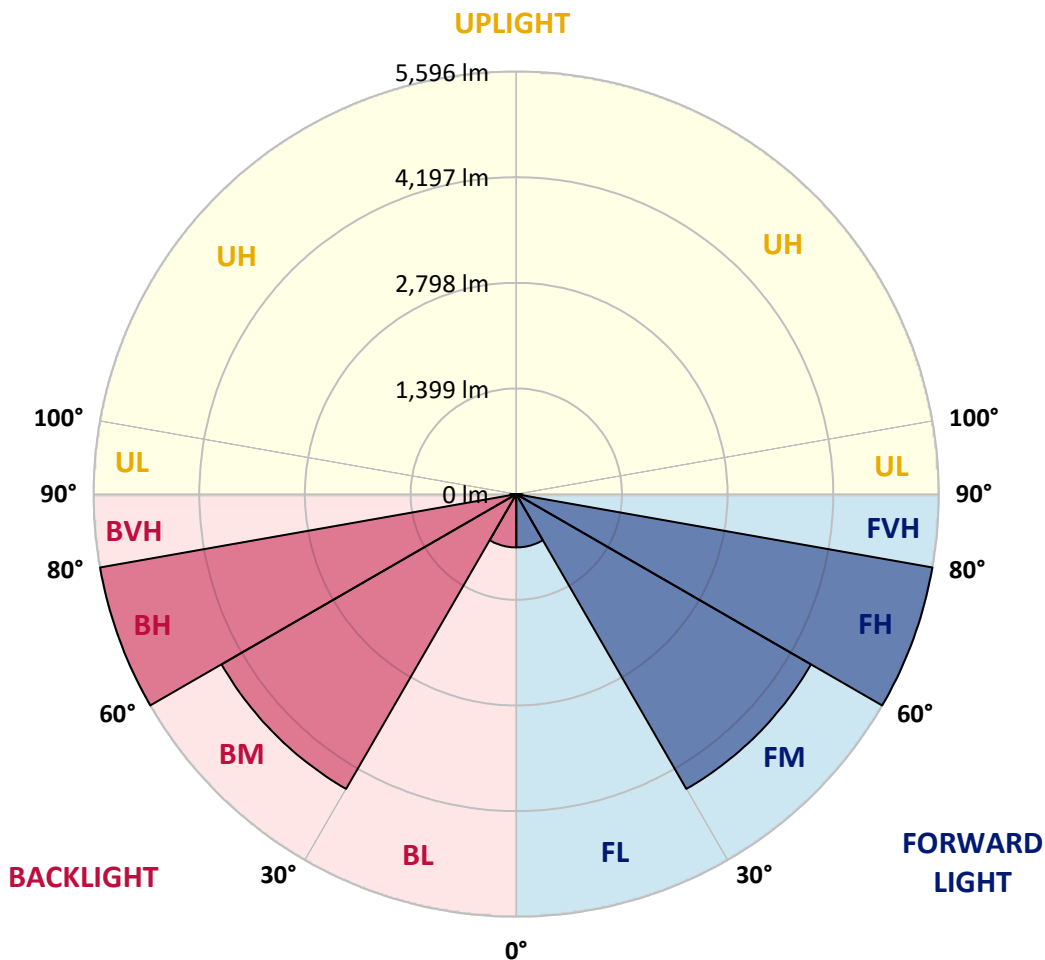
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	704.9	3.2			
FM (30°-60°)	4507.2	20.7			
FH (60°-80°)	5596.3	25.7			G3/7500
FVH (80°-90°)	81.2	0.4			G1/100
BL (0°-30°)	704.9	3.2	B2/1000		
BM (30°-60°)	4507.2	20.7	B3/5000		
BH (60°-80°)	5596.3	25.7	B5		G3/7500
BVH (80°-90°)	81.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2	1665.2
2.5°	1645.9	1650.7	1648.3	1648.3	1655.5	1660.3	1662.7	1686.8	1677.2	1684.4	1677.2
5°	1650.7	1650.7	1655.5	1650.7	1655.5	1650.7	1655.5	1648.3	1655.5	1660.3	1667.6
7.5°	1641.1	1636.3	1629.1	1629.1	1626.7	1621.8	1614.6	1633.9	1624.2	1631.5	1643.5
10°	1643.5	1636.3	1612.2	1617.0	1595.4	1595.4	1600.2	1600.2	1621.8	1645.9	1653.1
12.5°	1643.5	1629.1	1621.8	1590.6	1590.6	1593.0	1605.0	1609.8	1624.2	1633.9	1657.9
15°	1643.5	1636.3	1624.2	1583.3	1593.0	1588.2	1600.2	1600.2	1631.5	1648.3	1660.3
17.5°	1653.1	1657.9	1636.3	1597.8	1600.2	1609.8	1602.6	1609.8	1648.3	1660.3	1677.2
20°	1655.5	1636.3	1629.1	1605.0	1626.7	1621.8	1619.4	1633.9	1645.9	1667.6	1686.8
22.5°	1650.7	1657.9	1629.1	1626.7	1645.9	1655.5	1660.3	1643.5	1657.9	1672.4	1689.2
25°	1691.6	1665.2	1657.9	1653.1	1662.7	1672.4	1667.6	1682.0	1682.0	1698.8	1720.5
27.5°	1802.3	1804.7	1790.3	1732.5	1713.3	1691.6	1701.2	1739.7	1785.5	1821.6	1828.8
30°	1852.8	1862.5	1901.0	1891.3	1884.1	1891.3	1888.9	1898.6	1903.4	1905.8	1898.6
32.5°	1898.6	1893.8	1876.9	1920.2	2062.2	2170.5	2067.0	1925.0	1893.8	1884.1	1893.8
35°	2064.6	2064.6	2028.5	1973.2	2047.8	2074.2	2026.1	1958.7	1997.2	2076.6	2081.4
37.5°	2278.8	2247.5	2261.9	2254.7	2172.9	2115.1	2199.4	2242.7	2249.9	2247.5	2271.5
40°	2406.3	2384.6	2363.0	2401.5	2476.1	2529.0	2454.4	2350.9	2377.4	2430.4	2408.7
42.5°	2697.5	2642.1	2646.9	2608.4	2606.0	2589.2	2572.3	2579.5	2618.0	2678.2	2687.8
45°	2995.8	3022.3	3005.5	2933.3	2967.0	2967.0	2918.8	2954.9	2974.2	3044.0	3053.6
47.5°	3462.7	3450.6	3457.8	3392.9	3390.5	3407.3	3390.5	3392.9	3453.0	3448.2	3421.7
50°	4008.9	4042.6	4052.2	4020.9	3982.4	3975.2	3948.7	3982.4	4018.5	4020.9	3999.3
52.5°	4764.5	4800.6	4800.6	4810.2	4858.3	4834.2	4829.4	4831.8	4762.1	4713.9	4738.0
55°	5717.4	5729.4	5770.3	5854.5	6001.3	6020.5	5929.1	5888.2	5760.7	5683.7	5743.8
57.5°	6658.2	6706.3	6819.4	7038.4	7218.9	7416.2	7151.5	6882.0	6631.7	6509.0	6530.7
60°	7440.3	7510.0	7726.6	8032.2	8532.7	8713.2	8265.6	7803.6	7295.9	6920.5	7072.1
62.5°	7808.4	7916.7	8099.6	8718.0	9468.8	9728.6	9071.7	8231.9	7461.9	7101.0	7093.8
64°	7810.8	7827.7	8193.4	8860.0	9632.4	10135.3	9266.6	8231.9	7502.8	7057.7	7139.5
65°	7649.6	7719.4	8073.1	8730.0	9528.9	10169.0	9199.3	8118.8	7334.4	6987.9	7026.4
67.5°	6918.1	6915.7	7242.9	7895.0	9004.3	9786.4	8626.6	7486.0	6918.1	6542.7	6588.4
70°	5248.1	5332.3	5645.2	6446.5	7791.6	8629.0	7543.7	6362.2	5654.8	5354.0	5337.2
72.5°	3140.2	3250.9	3650.3	4627.3	6051.8	7069.7	5986.9	4706.7	3854.9	3378.4	3390.5
75°	1431.7	1513.6	1787.9	2584.4	4032.9	5168.7	4057.0	2721.5	1951.5	1648.3	1605.0
77.5°	401.9	452.4	604.0	1186.3	2213.8	3099.3	2276.4	1311.4	851.8	707.5	693.0
80°	180.5	190.1	214.2	288.8	702.6	1366.8	940.9	481.3	320.0	264.7	252.7
82.5°	98.7	105.9	139.6	149.2	199.7	363.4	310.4	226.2	192.5	154.0	149.2
85°	55.3	57.8	79.4	79.4	96.3	105.9	113.1	120.3	117.9	86.6	84.2
87.5°	16.8	19.3	24.1	24.1	24.1	24.1	38.5	52.9	57.8	40.9	40.9
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)