

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: P479603

Luminaire Tested: **IFLD-S-SA3E-727-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479603  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3E-727-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (48) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

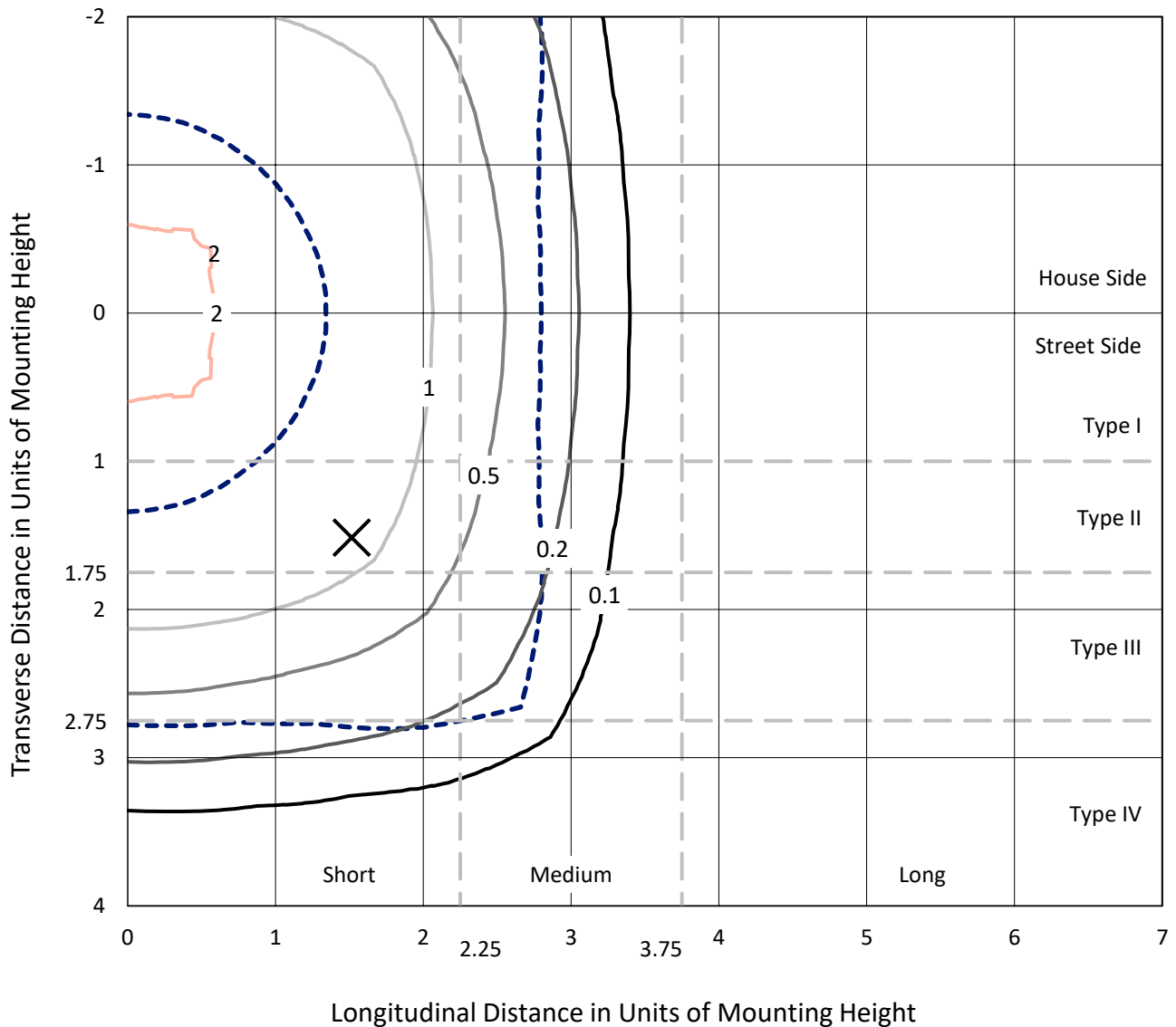
Lumens per Lamp: N/A  
Luminaire Lumens: 23148.6 lumens  
Efficiency: N/A  
Efficacy: 99.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G3

Input Watts (W): 232.1  
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

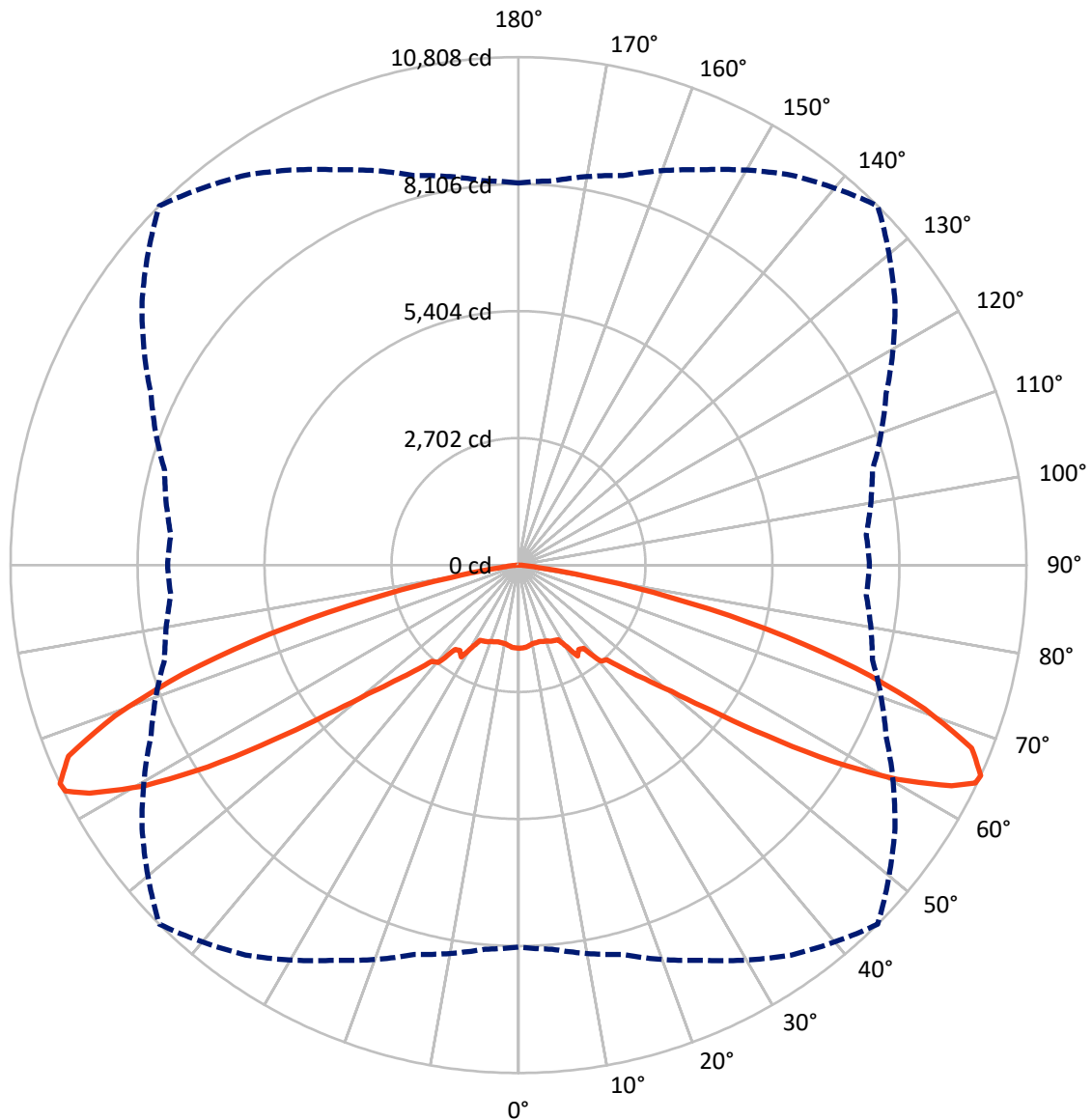
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 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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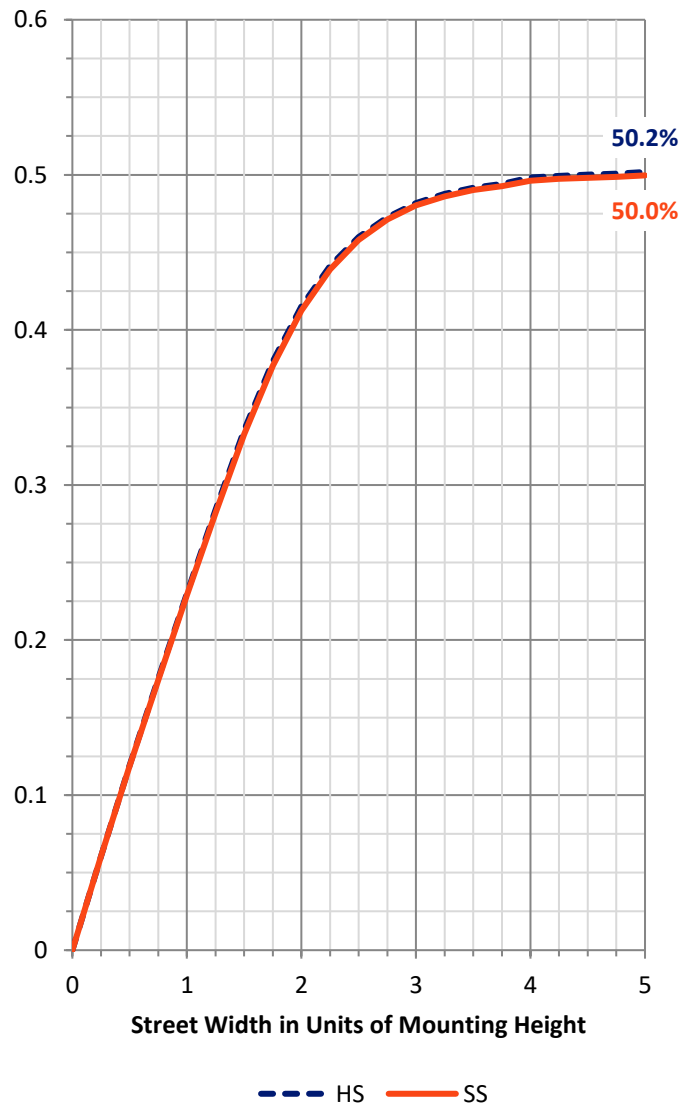
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11574.3	0.0	11574.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	11574.3	0.0	11574.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	23148.6	0.0	23148.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	166.1	0.7
10°-20°	487.9	2.1
20°-30°	844.5	3.6
30°-40°	1404.2	6.1
40°-50°	2533.4	10.9
50°-60°	5643.6	24.4
60°-70°	8410.8	36.3
70°-80°	3485.5	15.1
80°-90°	172.6	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°	23148.6	100.0
0°-180°	23148.6	100.0

**Coefficient of Utilization**



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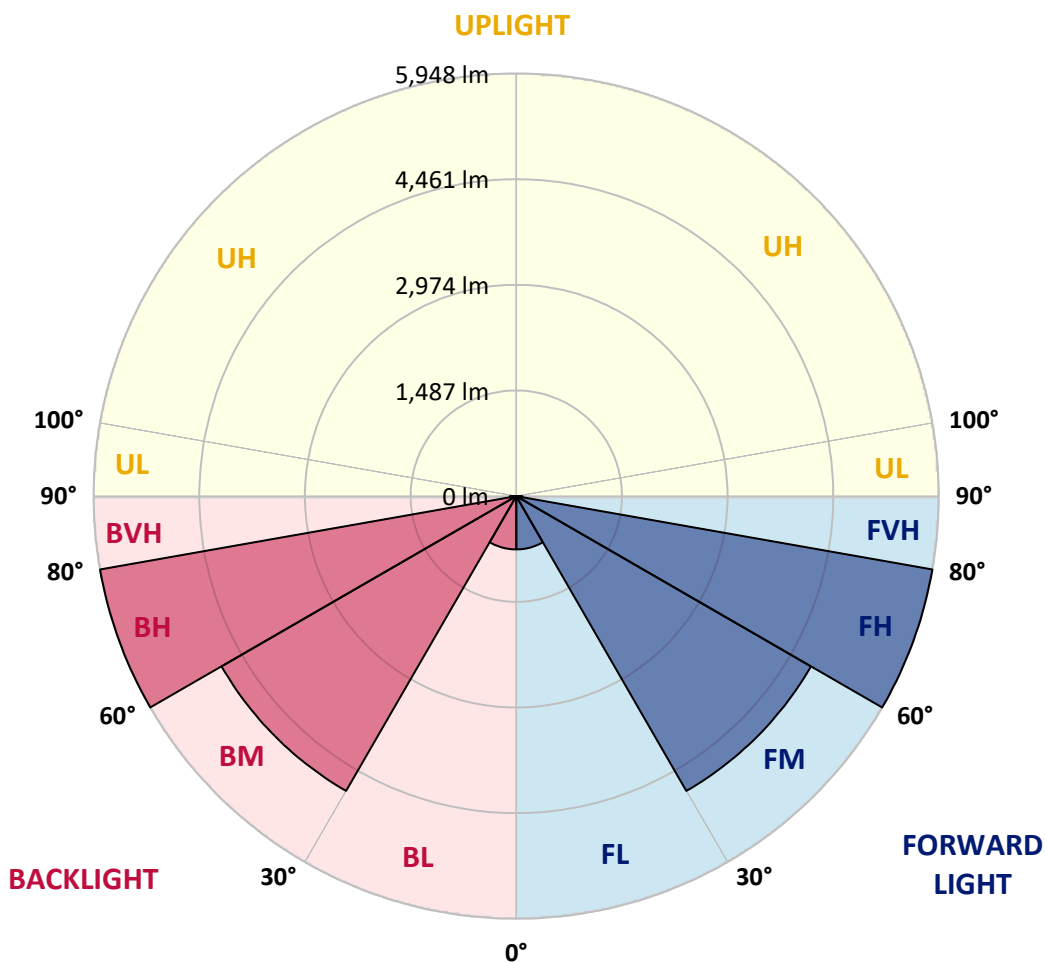
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	749.2	3.2			
FM (30°-60°)	4790.6	20.7			
FH (60°-80°)	5948.2	25.7			G3/7500
FVH (80°-90°)	86.3	0.4			G1/100
BL (0°-30°)	749.2	3.2	B2/1000		
BM (30°-60°)	4790.6	20.7	B3/5000		
BH (60°-80°)	5948.2	25.7	B5		G3/7500
BVH (80°-90°)	86.3	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°	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9	1769.9
2.5°	1749.4	1754.5	1752.0	1752.0	1759.6	1764.7	1767.3	1792.9	1782.6	1790.3	1782.6
5°	1754.5	1754.5	1759.6	1754.5	1759.6	1754.5	1759.6	1752.0	1759.6	1764.7	1772.4
7.5°	1744.3	1739.2	1731.5	1731.5	1728.9	1723.8	1716.1	1736.6	1726.4	1734.0	1746.8
10°	1746.8	1739.2	1713.6	1718.7	1695.7	1695.7	1700.8	1700.8	1723.8	1749.4	1757.1
12.5°	1746.8	1731.5	1723.8	1690.6	1690.6	1693.1	1705.9	1711.0	1726.4	1736.6	1762.2
15°	1746.8	1739.2	1726.4	1682.9	1693.1	1688.0	1700.8	1700.8	1734.0	1752.0	1764.7
17.5°	1757.1	1762.2	1739.2	1698.2	1700.8	1711.0	1703.4	1711.0	1752.0	1764.7	1782.6
20°	1759.6	1739.2	1731.5	1705.9	1728.9	1723.8	1721.3	1736.6	1749.4	1772.4	1792.9
22.5°	1754.5	1762.2	1731.5	1728.9	1749.4	1759.6	1764.7	1746.8	1762.2	1777.5	1795.4
25°	1798.0	1769.9	1762.2	1757.1	1767.3	1777.5	1772.4	1787.8	1787.8	1805.7	1828.7
27.5°	1915.6	1918.2	1902.8	1841.5	1821.0	1798.0	1808.2	1849.1	1897.7	1936.1	1943.8
30°	1969.3	1979.6	2020.5	2010.3	2002.6	2010.3	2007.7	2017.9	2023.1	2025.6	2017.9
32.5°	2017.9	2012.8	1994.9	2041.0	2191.9	2306.9	2197.0	2046.1	2012.8	2002.6	2012.8
35°	2194.4	2194.4	2156.0	2097.2	2176.5	2204.6	2153.5	2081.9	2122.8	2207.2	2212.3
37.5°	2422.0	2388.8	2404.1	2396.5	2309.5	2248.1	2337.6	2383.7	2391.3	2388.8	2414.4
40°	2557.6	2534.6	2511.6	2552.5	2631.8	2688.0	2608.7	2498.8	2526.9	2583.2	2560.1
42.5°	2867.1	2808.2	2813.4	2772.4	2769.9	2752.0	2734.1	2741.7	2782.7	2846.6	2856.8
45°	3184.2	3212.3	3194.4	3117.7	3153.5	3153.5	3102.4	3140.7	3161.2	3235.4	3245.6
47.5°	3680.4	3667.6	3675.3	3606.2	3603.6	3621.6	3603.6	3606.2	3670.1	3665.0	3636.9
50°	4260.9	4296.8	4307.0	4273.7	4232.8	4225.1	4197.0	4232.8	4271.2	4273.7	4250.7
52.5°	5064.0	5102.4	5102.4	5112.6	5163.8	5138.2	5133.1	5135.6	5061.5	5010.3	5035.9
55°	6076.8	6089.6	6133.1	6222.6	6378.6	6399.1	6301.9	6258.4	6122.9	6041.0	6105.0
57.5°	7076.9	7128.0	7248.2	7481.0	7672.8	7882.5	7601.2	7314.7	7048.7	6918.3	6941.3
60°	7908.1	7982.2	8212.4	8537.2	9069.2	9261.0	8785.3	8294.3	7754.6	7355.6	7516.8
62.5°	8299.4	8414.5	8608.9	9266.2	10064.1	10340.3	9642.1	8749.5	7931.1	7547.5	7539.8
64°	8301.9	8319.8	8708.6	9417.1	10238.0	10772.6	9849.3	8749.5	7974.6	7501.4	7588.4
65°	8130.6	8204.8	8580.7	9278.9	10128.1	10808.4	9777.7	8629.3	7795.5	7427.2	7468.2
67.5°	7353.1	7350.5	7698.4	8391.5	9570.5	10401.7	9169.0	7956.7	7353.1	6954.1	7002.7
70°	5578.1	5667.6	6000.1	6851.8	8281.5	9171.5	8018.1	6762.3	6010.3	5690.6	5672.7
72.5°	3337.7	3455.3	3879.9	4918.2	6432.3	7514.2	6363.3	5002.6	4097.3	3590.9	3603.6
75°	1521.8	1608.7	1900.3	2746.9	4286.5	5493.7	4312.1	2892.6	2074.2	1752.0	1705.9
77.5°	427.1	480.8	642.0	1260.9	2353.0	3294.2	2419.5	1393.9	905.4	751.9	736.6
80°	191.8	202.0	227.6	306.9	746.8	1452.7	1000.0	511.5	340.2	281.3	268.5
82.5°	104.9	112.5	148.3	158.6	212.3	386.2	329.9	240.4	204.6	163.7	158.6
85°	58.8	61.4	84.4	84.4	102.3	112.5	120.2	127.9	125.3	92.1	89.5
87.5°	17.9	20.5	25.6	25.6	25.6	25.6	40.9	56.3	61.4	43.5	43.5
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)