

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: P479876

Luminaire Tested: **IFLD-S-SA3E-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479876
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

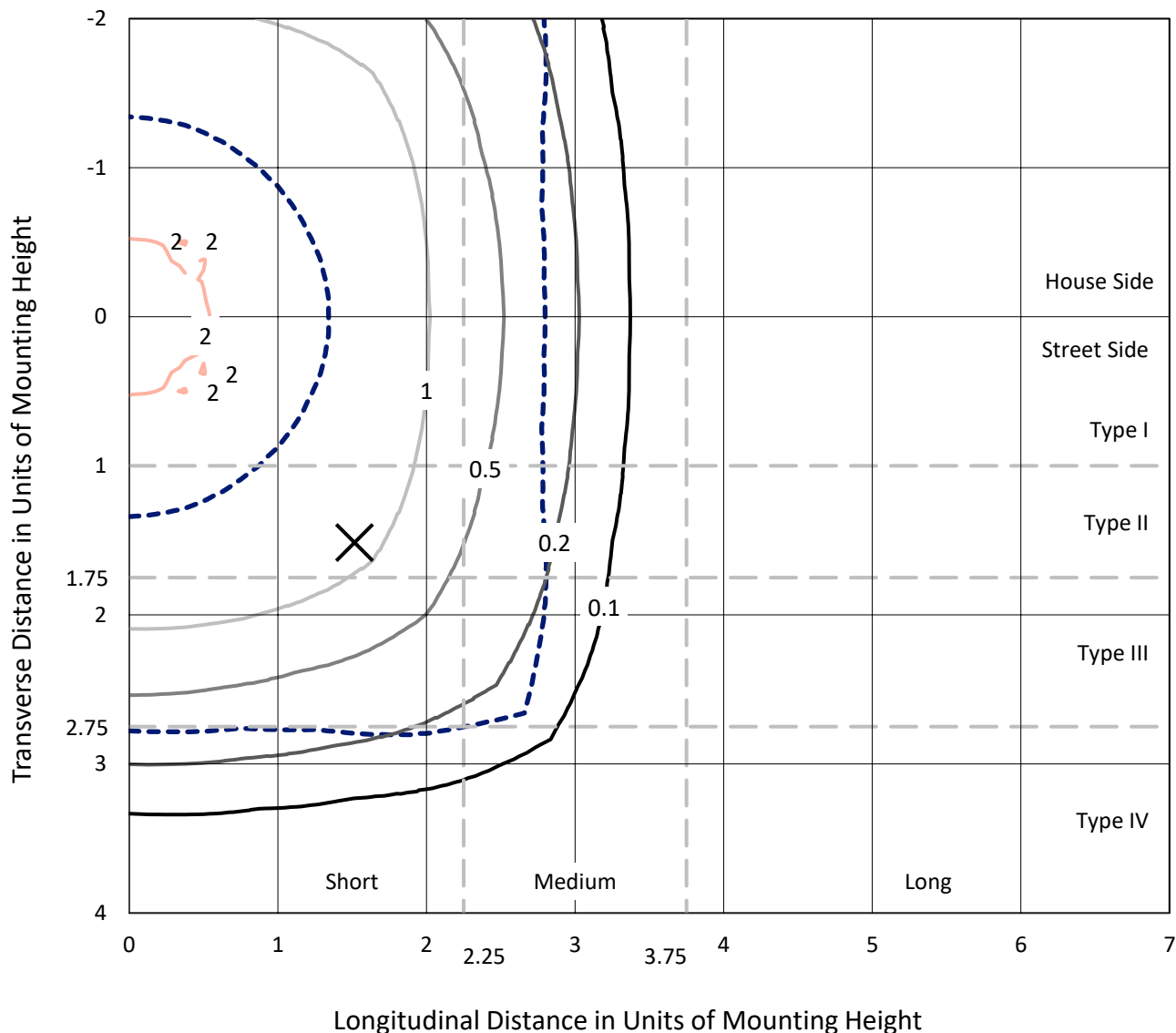
Lumens per Lamp: N/A
Luminaire Lumens: 21994.4 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

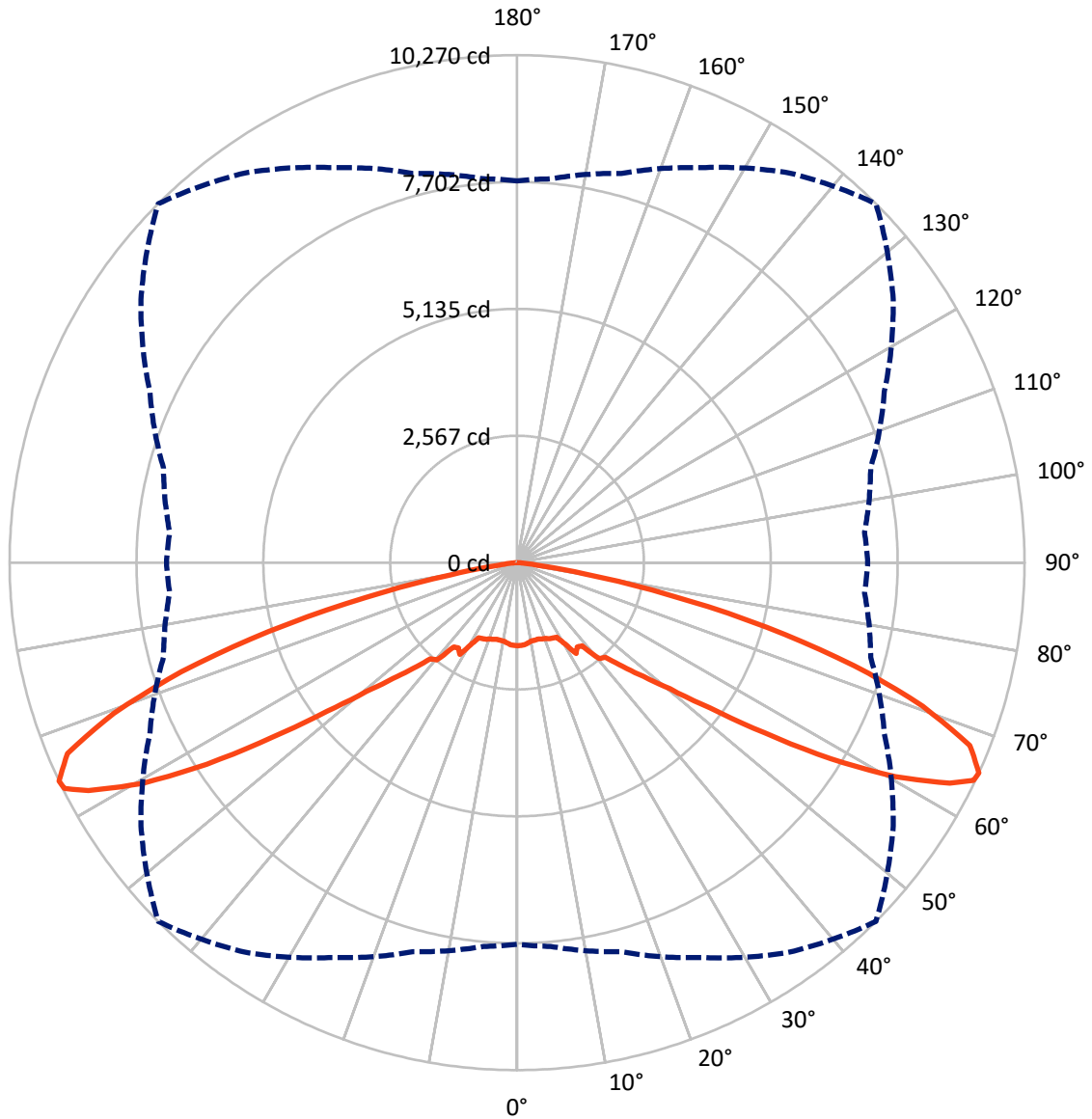
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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
House Side	Lumens	10997.2	0.0	10997.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10997.2	0.0	10997.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	21994.4	0.0	21994.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	0.7
10°-20°	463.6	2.1
20°-30°	802.4	3.6
30°-40°	1334.2	6.1
40°-50°	2407.1	10.9
50°-60°	5362.2	24.4
60°-70°	7991.4	36.3
70°-80°	3311.7	15.1
80°-90°	164.0	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°	21994.4	100.0
0°-180°	21994.4	100.0

Coefficient of Utilization



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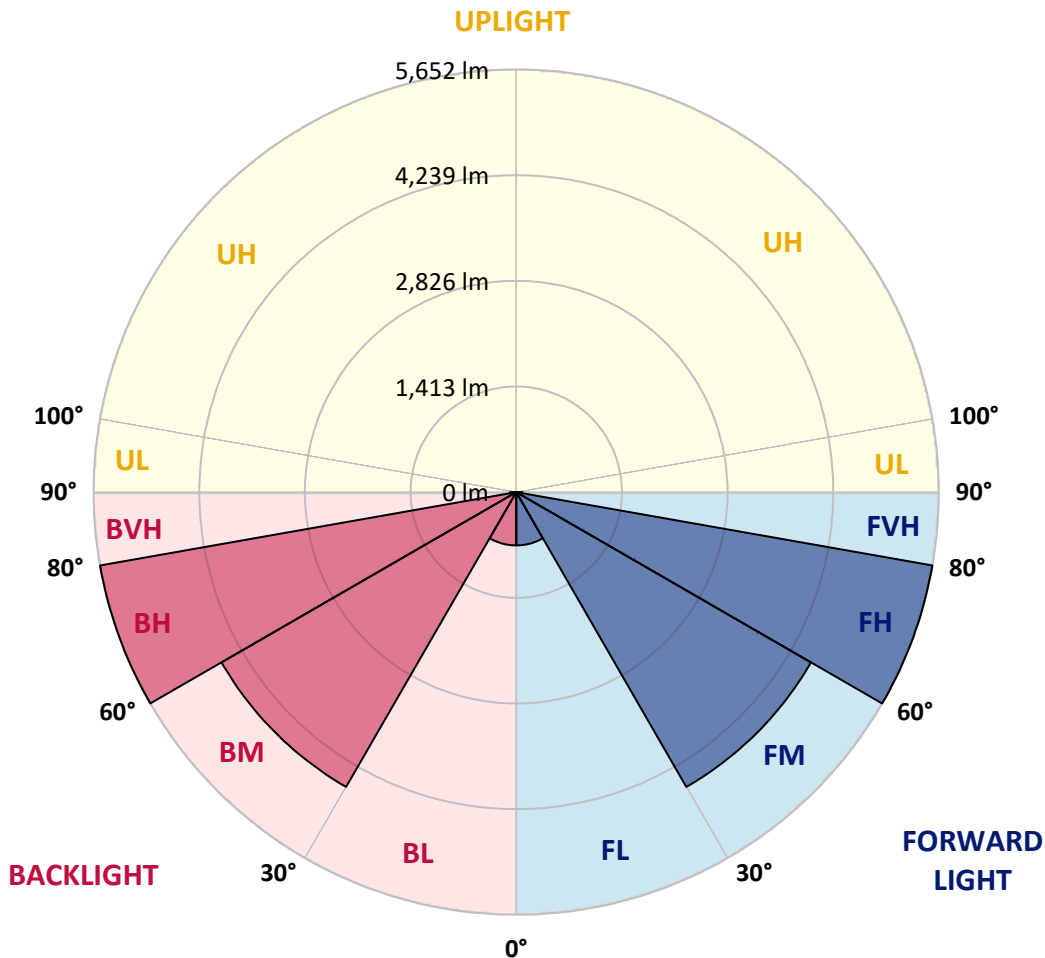
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	711.9	3.2			
FM (30°-60°)	4551.7	20.7			
FH (60°-80°)	5651.6	25.7			G3/7500
FVH (80°-90°)	82.0	0.4			G1/100
BL (0°-30°)	711.9	3.2	B2/1000		
BM (30°-60°)	4551.7	20.7	B3/5000		
BH (60°-80°)	5651.6	25.7	B5		G3/7500
BVH (80°-90°)	82.0	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°	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1662.2	1667.0	1664.6	1664.6	1671.9	1676.7	1679.2	1703.5	1693.8	1701.0	1693.8
5°	1667.0	1667.0	1671.9	1667.0	1671.9	1667.0	1671.9	1664.6	1671.9	1676.7	1684.0
7.5°	1657.3	1652.4	1645.2	1645.2	1642.7	1637.9	1630.6	1650.0	1640.3	1647.6	1659.7
10°	1659.7	1652.4	1628.1	1633.0	1611.1	1611.1	1616.0	1616.0	1637.9	1662.2	1669.5
12.5°	1659.7	1645.2	1637.9	1606.3	1606.3	1608.7	1620.9	1625.7	1640.3	1650.0	1674.3
15°	1659.7	1652.4	1640.3	1599.0	1608.7	1603.8	1616.0	1616.0	1647.6	1664.6	1676.7
17.5°	1669.5	1674.3	1652.4	1613.6	1616.0	1625.7	1618.4	1625.7	1664.6	1676.7	1693.8
20°	1671.9	1652.4	1645.2	1620.9	1642.7	1637.9	1635.4	1650.0	1662.2	1684.0	1703.5
22.5°	1667.0	1674.3	1645.2	1642.7	1662.2	1671.9	1676.7	1659.7	1674.3	1688.9	1705.9
25°	1708.3	1681.6	1674.3	1669.5	1679.2	1688.9	1684.0	1698.6	1698.6	1715.6	1737.5
27.5°	1820.1	1822.5	1808.0	1749.6	1730.2	1708.3	1718.1	1756.9	1803.1	1839.6	1846.8
30°	1871.1	1880.9	1919.8	1910.0	1902.7	1910.0	1907.6	1917.3	1922.2	1924.6	1917.3
32.5°	1917.3	1912.5	1895.4	1939.2	2082.6	2191.9	2087.4	1944.1	1912.5	1902.7	1912.5
35°	2085.0	2085.0	2048.5	1992.7	2068.0	2094.7	2046.1	1978.1	2017.0	2097.1	2102.0
37.5°	2301.3	2269.7	2284.3	2277.0	2194.3	2136.0	2221.1	2264.8	2272.1	2269.7	2294.0
40°	2430.1	2408.2	2386.3	2425.2	2500.5	2554.0	2478.7	2374.2	2400.9	2454.4	2432.5
42.5°	2724.1	2668.2	2673.1	2634.2	2631.8	2614.7	2597.7	2605.0	2643.9	2704.7	2714.4
45°	3025.4	3052.2	3035.1	2962.2	2996.3	2996.3	2947.7	2984.1	3003.6	3074.0	3083.8
47.5°	3496.9	3484.7	3492.0	3426.4	3424.0	3441.0	3424.0	3426.4	3487.1	3482.3	3455.6
50°	4048.5	4082.5	4092.2	4060.6	4021.8	4014.5	3987.7	4021.8	4058.2	4060.6	4038.8
52.5°	4811.5	4848.0	4848.0	4857.7	4906.3	4882.0	4877.1	4879.6	4809.1	4760.5	4784.8
55°	5773.8	5786.0	5827.3	5912.3	6060.6	6080.0	5987.7	5946.4	5817.6	5739.8	5800.6
57.5°	6724.0	6772.6	6886.8	7107.9	7290.2	7489.5	7222.2	6950.0	6697.3	6573.3	6595.2
60°	7513.8	7584.2	7802.9	8111.6	8617.0	8799.3	8347.3	7880.7	7368.0	6988.9	7142.0
62.5°	7885.6	7994.9	8179.6	8804.1	9562.3	9824.7	9161.3	8313.2	7535.6	7171.1	7163.8
64°	7888.0	7905.0	8274.4	8947.5	9727.5	10235.4	9358.2	8313.2	7576.9	7127.4	7210.0
65°	7725.2	7795.6	8152.9	8816.3	9623.1	10269.5	9290.1	8199.0	7406.8	7056.9	7095.8
67.5°	6986.4	6984.0	7314.5	7973.0	9093.3	9883.1	8711.8	7559.9	6986.4	6607.3	6653.5
70°	5300.0	5385.0	5700.9	6510.1	7868.5	8714.2	7618.3	6425.1	5710.7	5406.9	5389.9
72.5°	3171.2	3283.0	3686.4	4673.0	6111.6	7139.5	6046.0	4753.2	3893.0	3411.8	3424.0
75°	1445.9	1528.5	1805.5	2609.9	4072.8	5219.8	4097.1	2748.4	1970.8	1664.6	1620.9
77.5°	405.8	456.9	609.9	1198.0	2235.7	3129.9	2298.8	1324.4	860.2	714.4	699.9
80°	182.3	192.0	216.3	291.6	709.6	1380.3	950.2	486.0	323.2	267.3	255.2
82.5°	99.6	106.9	140.9	150.7	201.7	366.9	313.5	228.4	194.4	155.5	150.7
85°	55.9	58.3	80.2	80.2	97.2	106.9	114.2	121.5	119.1	87.5	85.1
87.5°	17.0	19.4	24.3	24.3	24.3	24.3	38.9	53.5	58.3	41.3	41.3
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)