

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: P479602

Luminaire Tested: **IFLD-S-SA3D-727-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479602
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-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

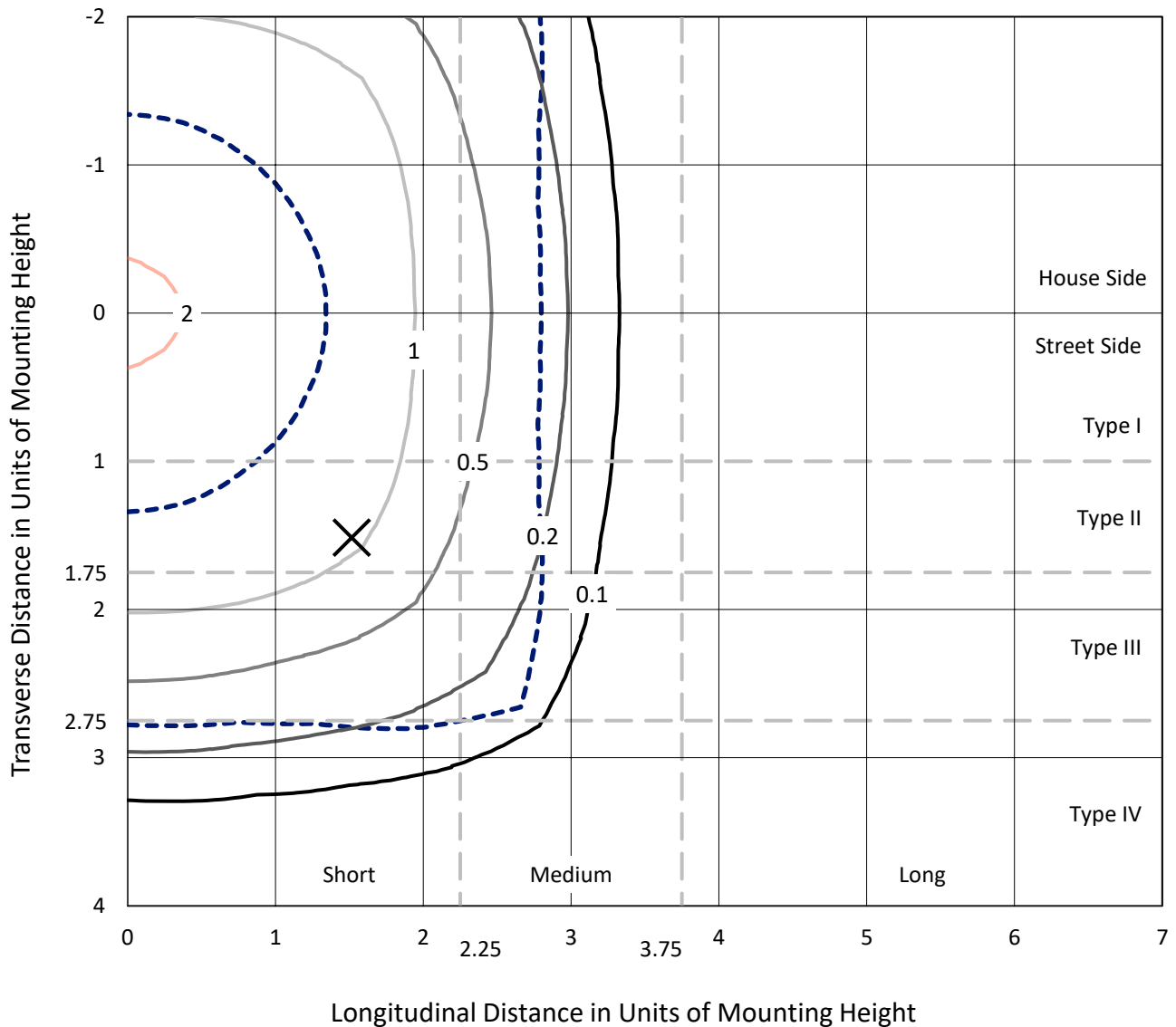
Lumens per Lamp: N/A
Luminaire Lumens: 20002.2 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

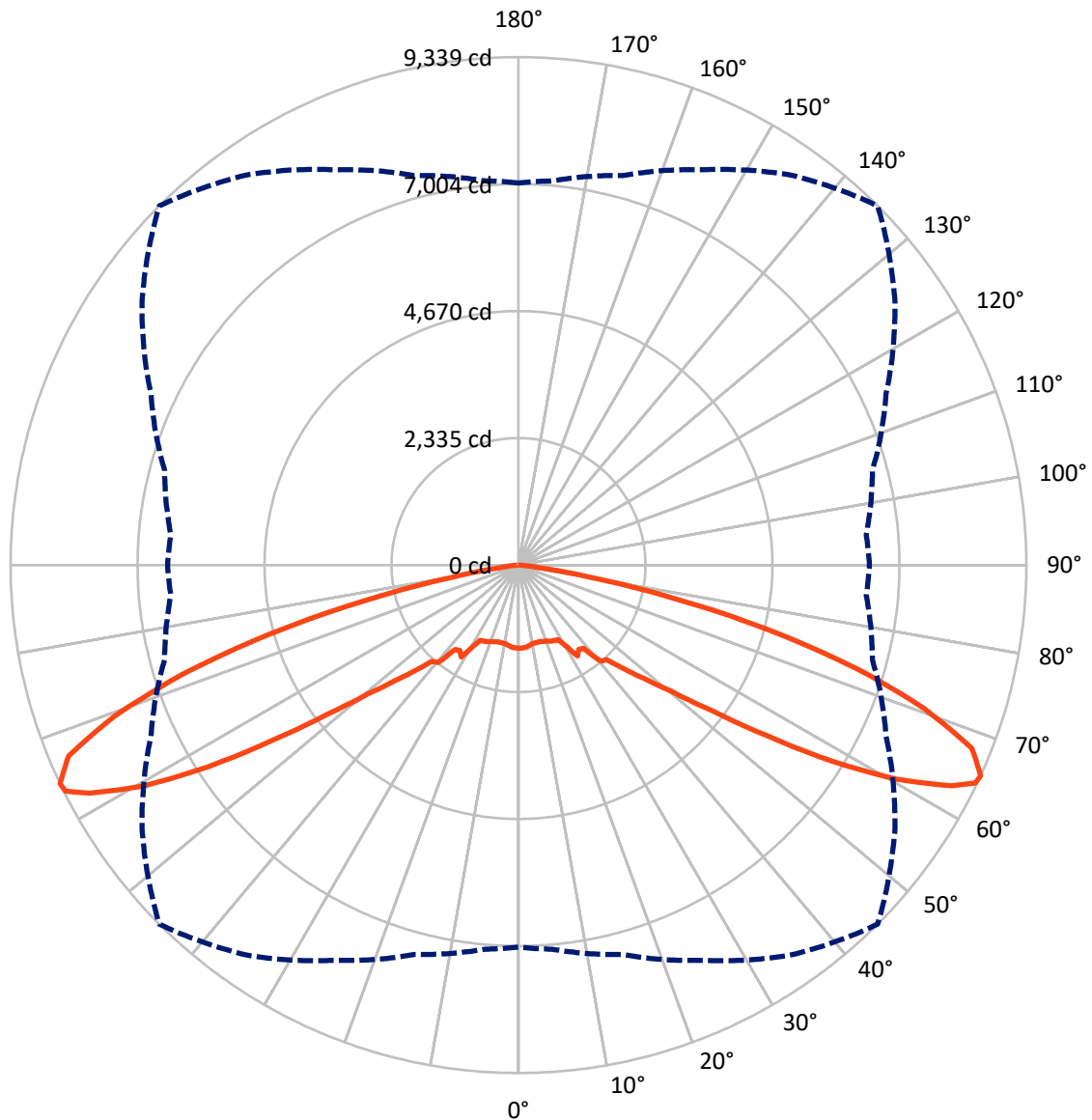
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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	10001.1	0.0	10001.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10001.1	0.0	10001.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	20002.2	0.0	20002.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.5	0.7
10°-20°	421.6	2.1
20°-30°	729.7	3.6
30°-40°	1213.3	6.1
40°-50°	2189.1	10.9
50°-60°	4876.5	24.4
60°-70°	7267.5	36.3
70°-80°	3011.8	15.1
80°-90°	149.2	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°	20002.2	100.0
0°-180°	20002.2	100.0

Coefficient of Utilization



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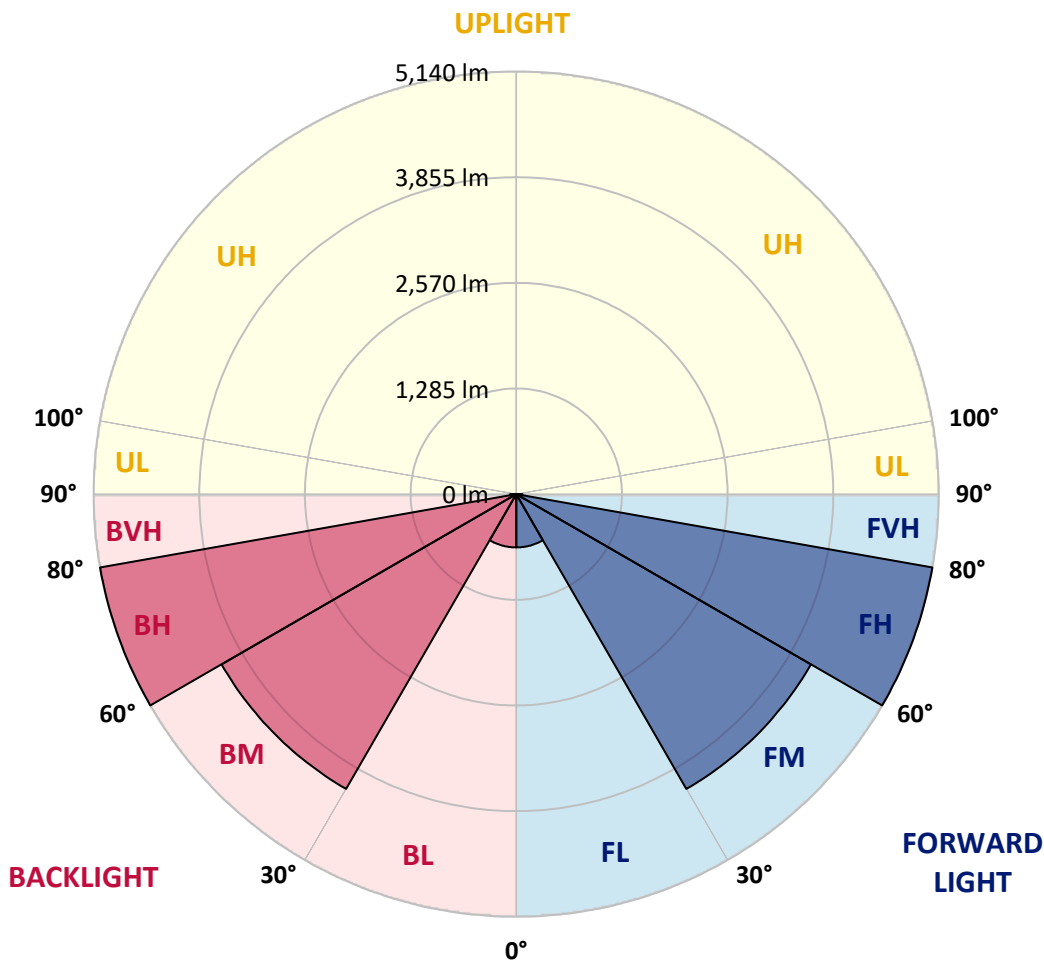
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	647.4	3.2			
FM (30°-60°)	4139.5	20.7			
FH (60°-80°)	5139.7	25.7			G3/7500
FVH (80°-90°)	74.6	0.4			G1/100
BL (0°-30°)	647.4	3.2	B2/1000		
BM (30°-60°)	4139.5	20.7	B3/5000		
BH (60°-80°)	5139.7	25.7	B5		G3/7500
BVH (80°-90°)	74.6	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°	1529.3	1529.3	1529.3	1529.3	1529.3	1529.3	1529.3	1529.3	1529.3	1529.3	1529.3
2.5°	1511.6	1516.0	1513.8	1513.8	1520.4	1524.9	1527.1	1549.2	1540.3	1547.0	1540.3
5°	1516.0	1516.0	1520.4	1516.0	1520.4	1516.0	1520.4	1513.8	1520.4	1524.9	1531.5
7.5°	1507.2	1502.8	1496.1	1496.1	1493.9	1489.5	1482.9	1500.6	1491.7	1498.3	1509.4
10°	1509.4	1502.8	1480.7	1485.1	1465.2	1465.2	1469.6	1469.6	1489.5	1511.6	1518.2
12.5°	1509.4	1496.1	1489.5	1460.8	1460.8	1463.0	1474.0	1478.5	1491.7	1500.6	1522.7
15°	1509.4	1502.8	1491.7	1454.1	1463.0	1458.6	1469.6	1469.6	1498.3	1513.8	1524.9
17.5°	1518.2	1522.7	1502.8	1467.4	1469.6	1478.5	1471.8	1478.5	1513.8	1524.9	1540.3
20°	1520.4	1502.8	1496.1	1474.0	1493.9	1489.5	1487.3	1500.6	1511.6	1531.5	1549.2
22.5°	1516.0	1522.7	1496.1	1493.9	1511.6	1520.4	1524.9	1509.4	1522.7	1535.9	1551.4
25°	1553.6	1529.3	1522.7	1518.2	1527.1	1535.9	1531.5	1544.8	1544.8	1560.2	1580.1
27.5°	1655.3	1657.5	1644.2	1591.2	1573.5	1553.6	1562.4	1597.8	1639.8	1672.9	1679.6
30°	1701.7	1710.5	1745.9	1737.0	1730.4	1737.0	1734.8	1743.7	1748.1	1750.3	1743.7
32.5°	1743.7	1739.2	1723.8	1763.5	1893.9	1993.4	1898.3	1768.0	1739.2	1730.4	1739.2
35°	1896.1	1896.1	1863.0	1812.2	1880.7	1905.0	1860.8	1798.9	1834.3	1907.2	1911.6
37.5°	2092.8	2064.1	2077.4	2070.7	1995.6	1942.5	2019.9	2059.7	2066.3	2064.1	2086.2
40°	2210.0	2190.1	2170.2	2205.5	2274.0	2322.7	2254.2	2159.1	2183.4	2232.1	2212.2
42.5°	2477.4	2426.5	2430.9	2395.6	2393.4	2377.9	2362.4	2369.1	2404.4	2459.7	2468.5
45°	2751.4	2775.7	2760.2	2693.9	2724.9	2724.9	2680.7	2713.8	2731.5	2795.6	2804.4
47.5°	3180.1	3169.1	3175.7	3116.0	3113.8	3129.3	3113.8	3116.0	3171.3	3166.9	3142.6
50°	3681.8	3712.7	3721.6	3692.8	3657.5	3650.8	3626.5	3657.5	3690.6	3692.8	3672.9
52.5°	4375.7	4408.9	4408.9	4417.7	4461.9	4439.8	4435.4	4437.6	4373.5	4329.3	4351.4
55°	5250.8	5261.9	5299.5	5376.8	5511.6	5529.3	5445.3	5407.8	5290.6	5219.9	5275.2
57.5°	6114.9	6159.1	6263.0	6464.1	6629.9	6811.1	6568.0	6320.5	6090.6	5977.9	5997.8
60°	6833.2	6897.3	7096.2	7376.8	7836.5	8002.2	7591.2	7166.9	6700.6	6355.8	6495.1
62.5°	7171.3	7270.7	7438.7	8006.7	8696.2	8934.8	8331.5	7560.2	6853.1	6521.6	6514.9
64°	7173.5	7189.0	7524.9	8137.0	8846.4	9308.3	8510.5	7560.2	6890.6	6481.8	6556.9
65°	7025.4	7089.5	7414.4	8017.7	8751.4	9339.3	8448.6	7456.4	6735.9	6417.7	6453.1
67.5°	6353.6	6351.4	6652.0	7250.9	8269.6	8987.9	7922.7	6875.2	6353.6	6008.9	6050.9
70°	4819.9	4897.3	5184.5	5920.5	7155.8	7924.9	6928.2	5843.1	5193.4	4917.1	4901.7
72.5°	2884.0	2985.6	3352.5	4249.7	5558.0	6492.8	5498.4	4322.7	3540.3	3102.8	3113.8
75°	1314.9	1390.1	1642.0	2373.5	3703.9	4747.0	3726.0	2499.5	1792.3	1513.8	1474.0
77.5°	369.1	415.5	554.7	1089.5	2033.2	2846.4	2090.6	1204.4	782.3	649.7	636.5
80°	165.7	174.6	196.7	265.2	645.3	1255.3	864.1	442.0	293.9	243.1	232.0
82.5°	90.6	97.2	128.2	137.0	183.4	333.7	285.1	207.7	176.8	141.4	137.0
85°	50.8	53.0	72.9	72.9	88.4	97.2	103.9	110.5	108.3	79.6	77.3
87.5°	15.5	17.7	22.1	22.1	22.1	22.1	35.4	48.6	53.0	37.6	37.6
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)