

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: P479836

Luminaire Tested: **IFLD-S-SA3D-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479836
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

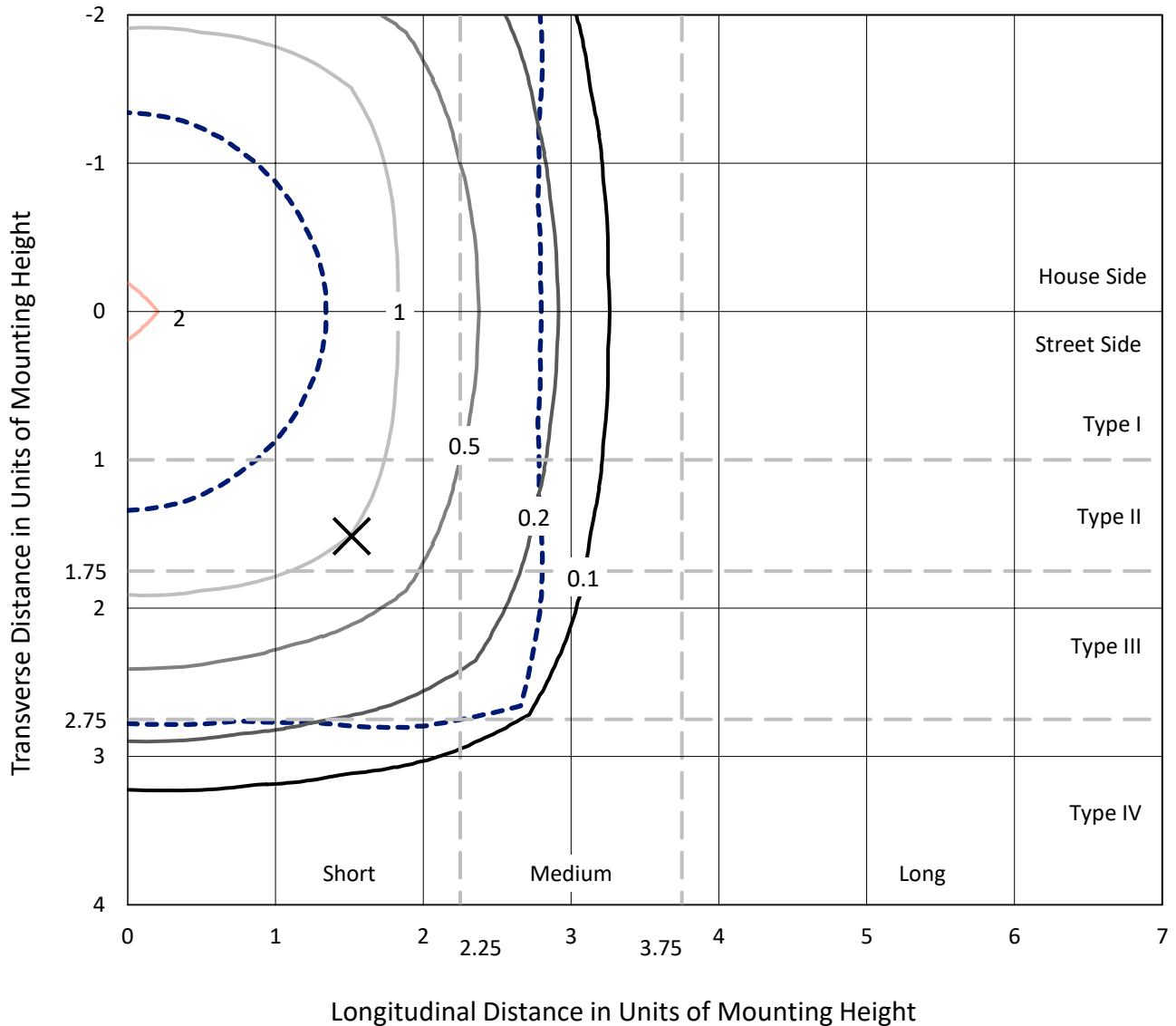
Lumens per Lamp: N/A
Luminaire Lumens: 17581.7 lumens
Efficiency: N/A
Efficacy: 95.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

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

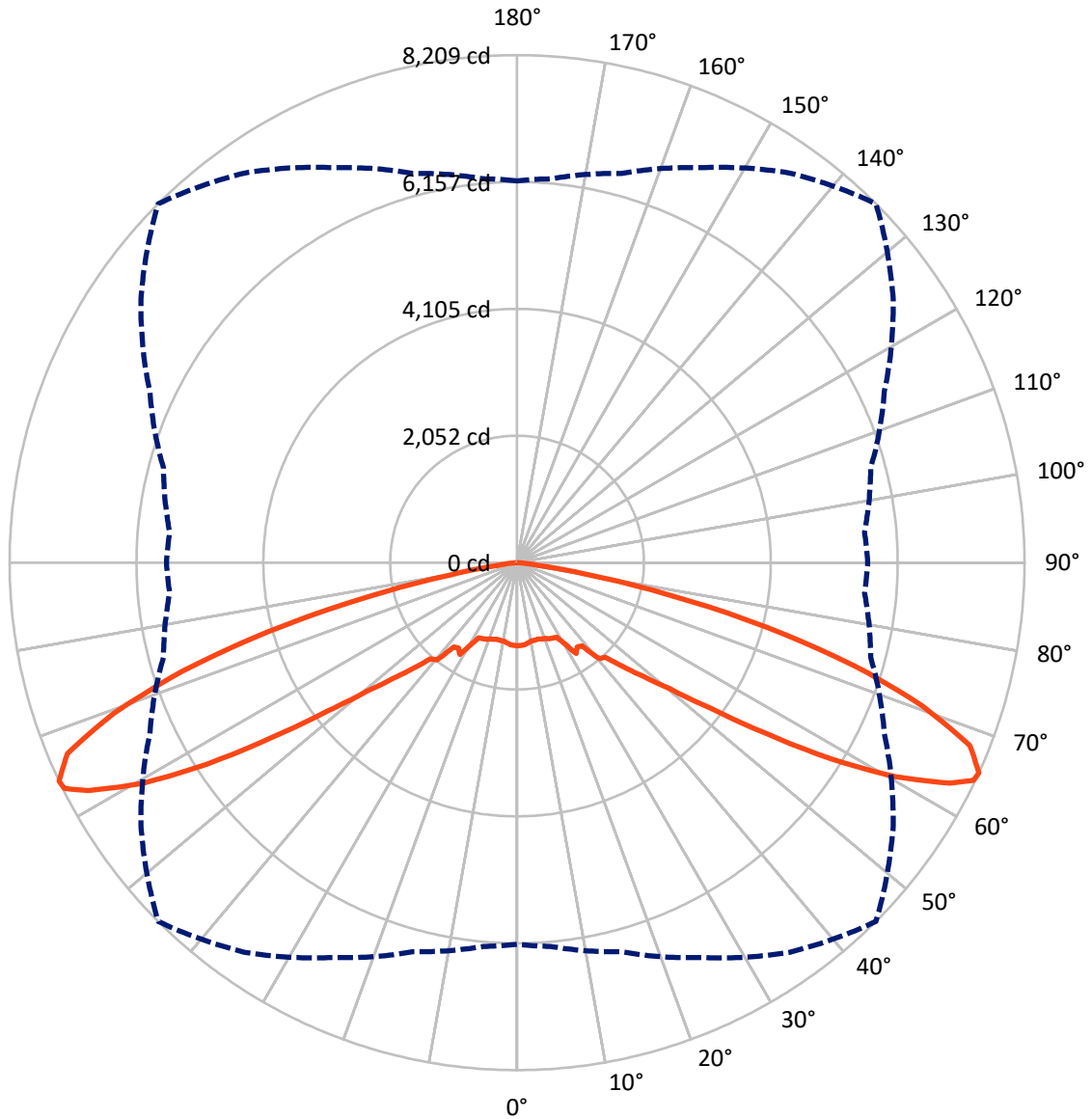
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 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	8790.9	0.0	8790.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8790.9	0.0	8790.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	17581.7	0.0	17581.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	0.7
10°-20°	370.6	2.1
20°-30°	641.4	3.6
30°-40°	1066.5	6.1
40°-50°	1924.2	10.9
50°-60°	4286.4	24.4
60°-70°	6388.1	36.3
70°-80°	2647.3	15.1
80°-90°	131.1	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°	17581.7	100.0
0°-180°	17581.7	100.0

Coefficient of Utilization



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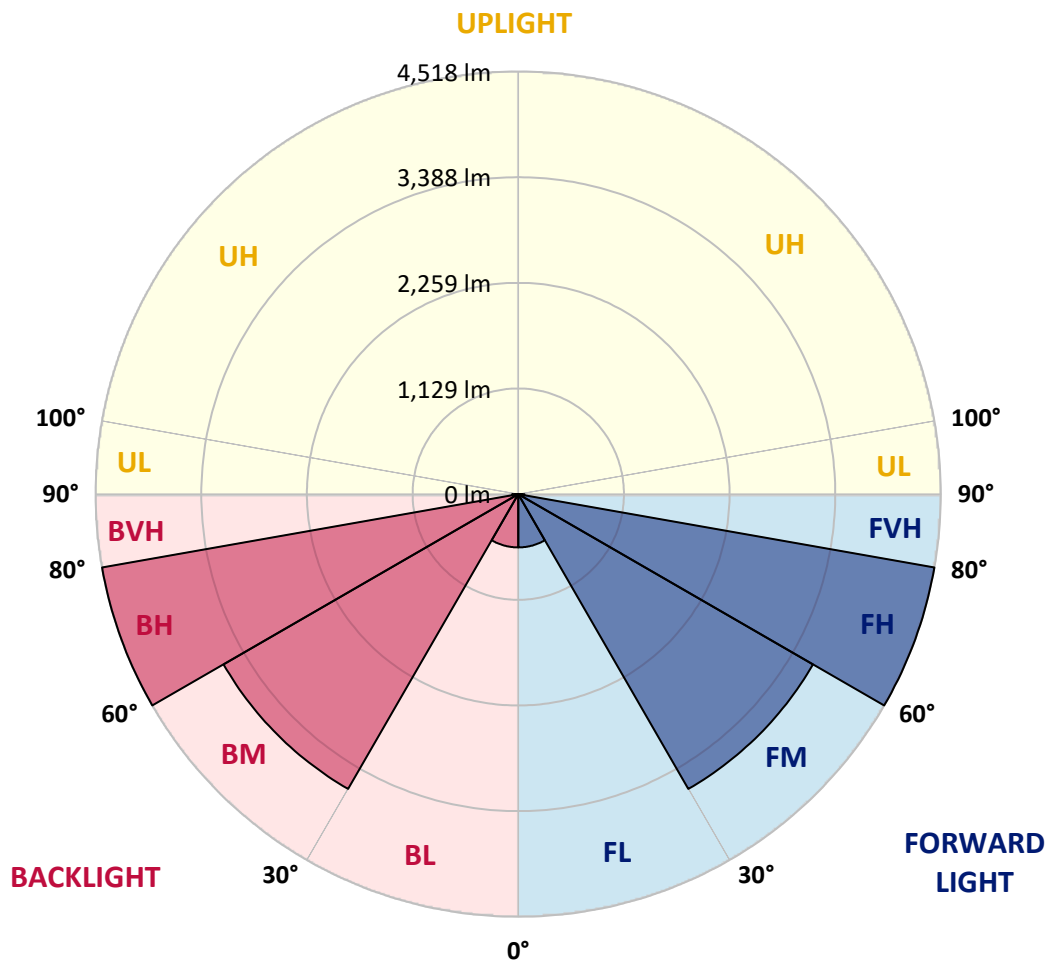
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	569.1	3.2			
FM (30°-60°)	3638.5	20.7			
FH (60°-80°)	4517.7	25.7			G2/5000
FVH (80°-90°)	65.6	0.4			G1/100
BL (0°-30°)	569.1	3.2	B2/1000		
BM (30°-60°)	3638.5	20.7	B3/5000		
BH (60°-80°)	4517.7	25.7	B4/5000		G2/5000
BVH (80°-90°)	65.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2	1344.2
2.5°	1328.7	1332.6	1330.6	1330.6	1336.5	1340.3	1342.3	1361.7	1353.9	1359.8	1353.9
5°	1332.6	1332.6	1336.5	1332.6	1336.5	1332.6	1336.5	1330.6	1336.5	1340.3	1346.2
7.5°	1324.8	1320.9	1315.1	1315.1	1313.1	1309.3	1303.4	1319.0	1311.2	1317.0	1326.7
10°	1326.7	1320.9	1301.5	1305.4	1287.9	1287.9	1291.8	1291.8	1309.3	1328.7	1334.5
12.5°	1326.7	1315.1	1309.3	1284.0	1284.0	1286.0	1295.7	1299.6	1311.2	1319.0	1338.4
15°	1326.7	1320.9	1311.2	1278.2	1286.0	1282.1	1291.8	1291.8	1317.0	1330.6	1340.3
17.5°	1334.5	1338.4	1320.9	1289.8	1291.8	1299.6	1293.7	1299.6	1330.6	1340.3	1353.9
20°	1336.5	1320.9	1315.1	1295.7	1313.1	1309.3	1307.3	1319.0	1328.7	1346.2	1361.7
22.5°	1332.6	1338.4	1315.1	1313.1	1328.7	1336.5	1340.3	1326.7	1338.4	1350.1	1363.7
25°	1365.6	1344.2	1338.4	1334.5	1342.3	1350.1	1346.2	1357.8	1357.8	1371.4	1388.9
27.5°	1455.0	1456.9	1445.2	1398.6	1383.1	1365.6	1373.4	1404.4	1441.4	1470.5	1476.3
30°	1495.7	1503.5	1534.6	1526.8	1521.0	1526.8	1524.9	1532.7	1536.5	1538.5	1532.7
32.5°	1532.7	1528.8	1515.2	1550.1	1664.7	1752.2	1668.6	1554.0	1528.8	1521.0	1528.8
35°	1666.7	1666.7	1637.6	1592.9	1653.1	1674.5	1635.6	1581.2	1612.3	1676.4	1680.3
37.5°	1839.6	1814.3	1826.0	1820.1	1754.1	1707.5	1775.5	1810.4	1816.3	1814.3	1833.7
40°	1942.5	1925.0	1907.6	1938.6	1998.9	2041.6	1981.4	1897.8	1919.2	1962.0	1944.5
42.5°	2177.6	2132.9	2136.8	2105.7	2103.8	2090.2	2076.6	2082.4	2113.5	2162.0	2169.8
45°	2418.4	2439.8	2426.2	2367.9	2395.1	2395.1	2356.3	2385.4	2401.0	2457.3	2465.1
47.5°	2795.3	2785.6	2791.4	2739.0	2737.0	2750.6	2737.0	2739.0	2787.5	2783.6	2762.3
50°	3236.3	3263.4	3271.2	3246.0	3214.9	3209.1	3187.7	3214.9	3244.0	3246.0	3228.5
52.5°	3846.2	3875.3	3875.3	3883.1	3922.0	3902.5	3898.7	3900.6	3844.3	3805.4	3824.8
55°	4615.4	4625.2	4658.2	4726.2	4844.7	4860.2	4786.4	4753.4	4650.4	4588.3	4636.8
57.5°	5375.0	5413.8	5505.1	5681.9	5827.6	5986.9	5773.2	5555.6	5353.6	5254.5	5272.0
60°	6006.3	6062.6	6237.5	6484.2	6888.2	7033.9	6672.6	6299.6	5889.7	5586.7	5709.1
62.5°	6303.5	6390.9	6538.5	7037.8	7643.8	7853.6	7323.3	6645.4	6023.8	5732.4	5726.6
64°	6305.4	6319.0	6614.3	7152.4	7775.9	8181.9	7480.7	6645.4	6056.8	5697.4	5763.5
65°	6175.3	6231.6	6517.2	7047.5	7692.4	8209.1	7426.3	6554.1	5920.8	5641.1	5672.2
67.5°	5584.8	5582.8	5847.0	6373.4	7268.9	7900.3	6964.0	6043.2	5584.8	5281.7	5318.6
70°	4236.7	4304.6	4557.2	5204.0	6289.9	6965.9	6089.8	5136.0	4564.9	4322.1	4308.5
72.5°	2535.0	2624.4	2946.8	3735.5	4885.5	5707.1	4833.0	3799.6	3111.9	2727.3	2737.0
75°	1155.8	1221.9	1443.3	2086.3	3255.7	4172.6	3275.1	2197.0	1575.4	1330.6	1295.7
77.5°	324.4	365.2	487.6	957.7	1787.1	2502.0	1837.6	1058.7	687.7	571.1	559.4
80°	145.7	153.5	172.9	233.1	567.2	1103.4	759.5	388.5	258.4	213.7	204.0
82.5°	79.6	85.5	112.7	120.4	161.2	293.3	250.6	182.6	155.4	124.3	120.4
85°	44.7	46.6	64.1	64.1	77.7	85.5	91.3	97.1	95.2	69.9	68.0
87.5°	13.6	15.5	19.4	19.4	19.4	19.4	31.1	42.7	46.6	33.0	33.0
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)