

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: P479854

Luminaire Tested: **IFLD-M-SA4B-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479854
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

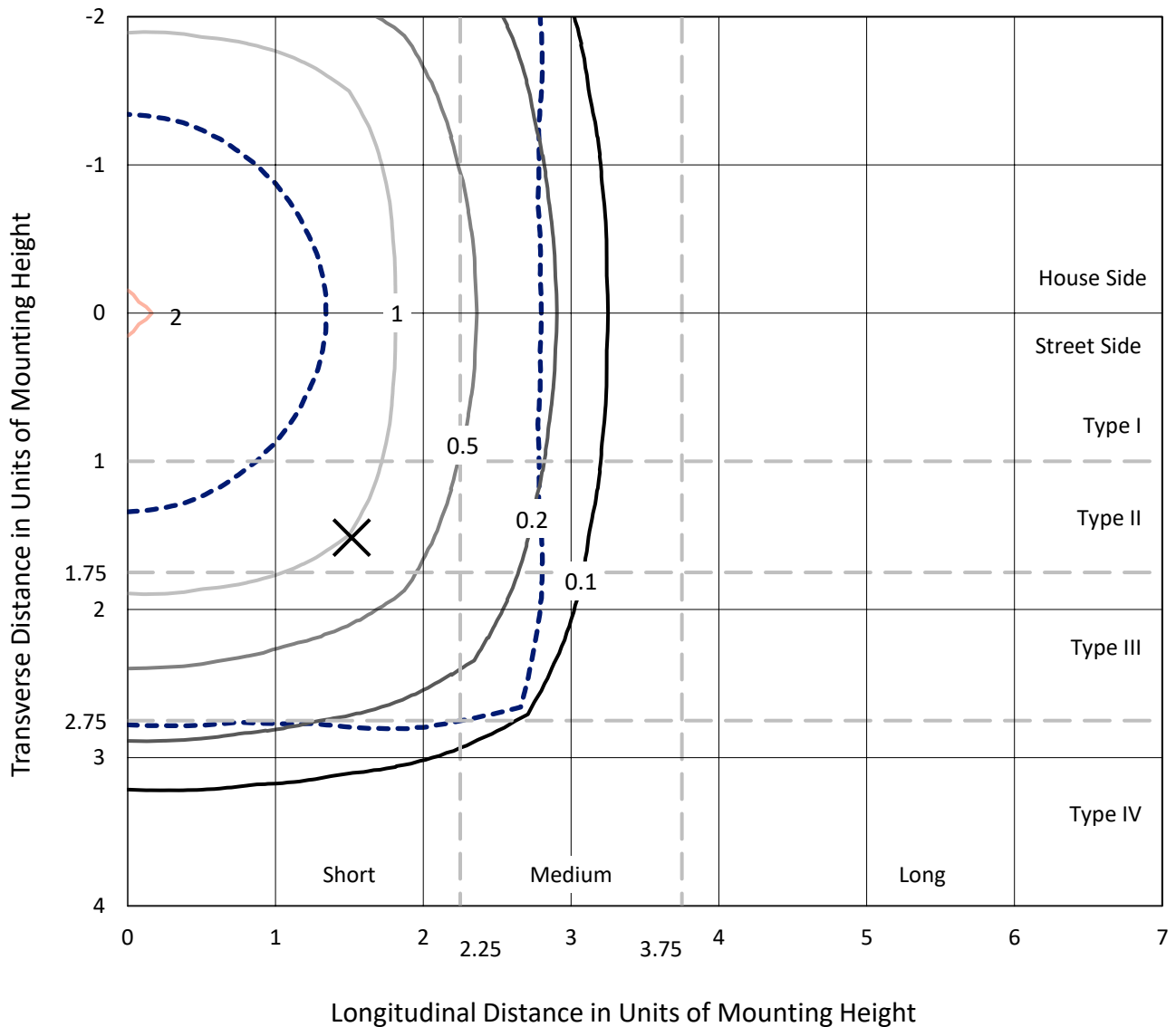
Lumens per Lamp: N/A
Luminaire Lumens: 17229 lumens
Efficiency: N/A
Efficacy: 103.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 166.1
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

REPORT NUMBER: P479854
 CATALOG NUMBER: IFLD-M-SA4B-827-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

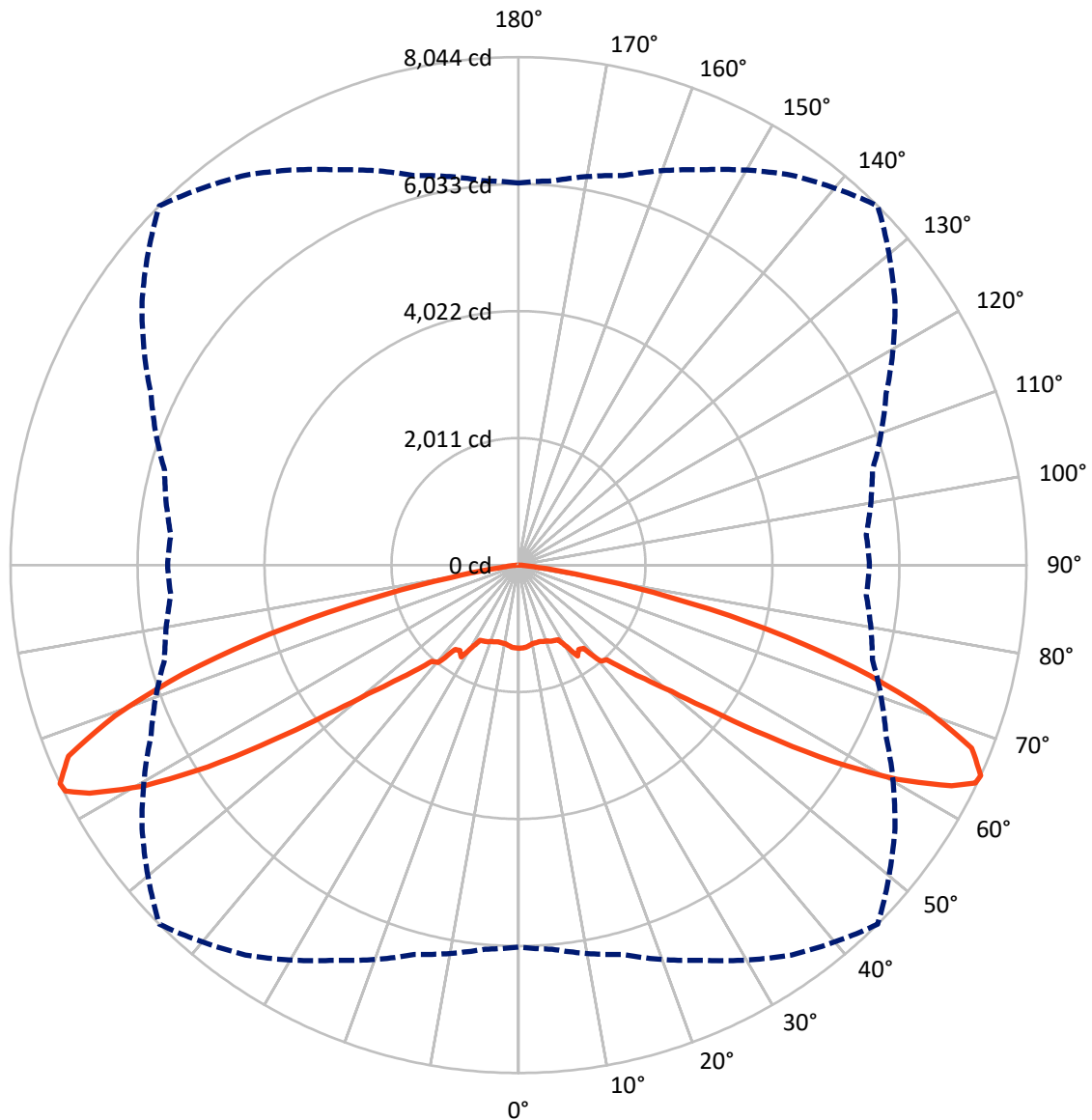
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - N/A

REPORT NUMBER: P479854
CATALOG NUMBER: IFLD-M-SA4B-827-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P479854

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8614.5	0.0	8614.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8614.5	0.0	8614.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	17229.0	0.0	17229.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.6	0.7
10°-20°	363.1	2.1
20°-30°	628.5	3.6
30°-40°	1045.1	6.1
40°-50°	1885.6	10.9
50°-60°	4200.4	24.4
60°-70°	6260.0	36.3
70°-80°	2594.2	15.1
80°-90°	128.5	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°	17229.0	100.0
0°-180°	17229.0	100.0

Coefficient of Utilization



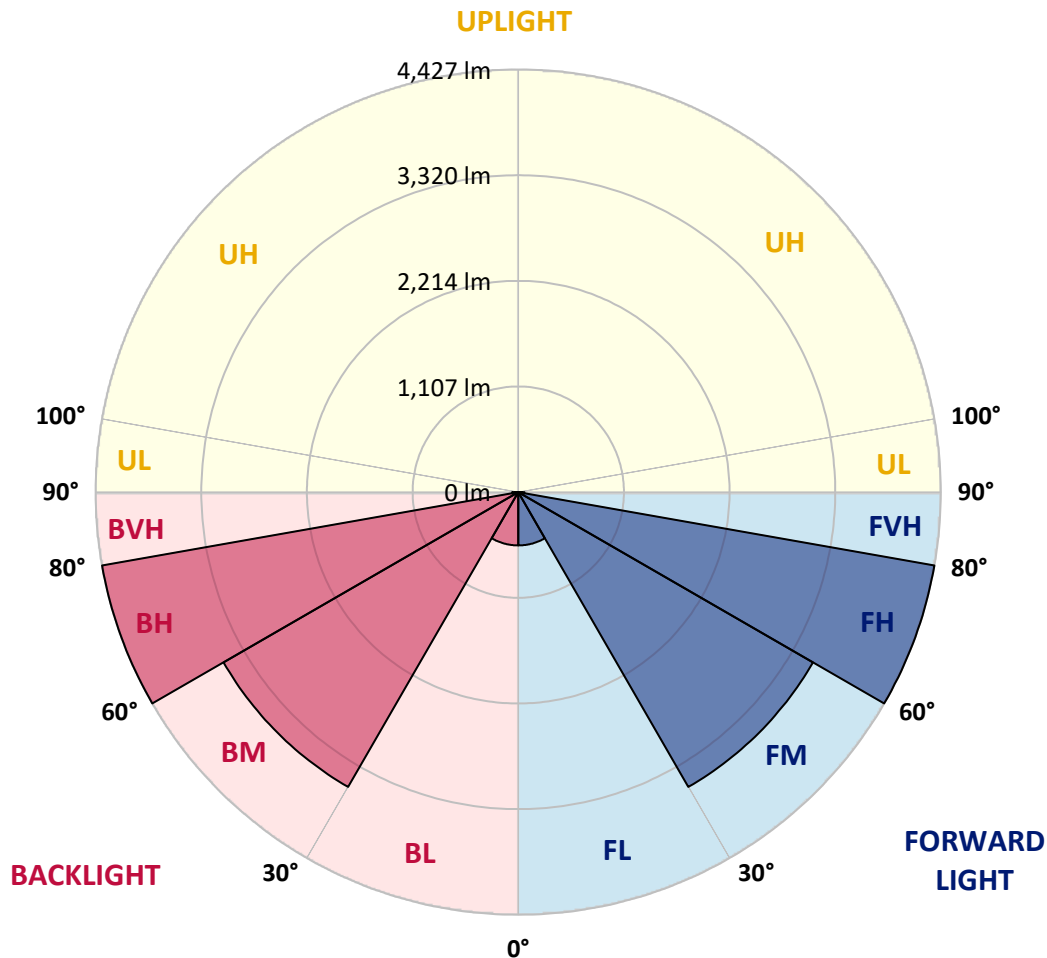
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	557.6	3.2			
FM (30°-60°)	3565.5	20.7			
FH (60°-80°)	4427.1	25.7			G2/5000
FVH (80°-90°)	64.2	0.4			G1/100
BL (0°-30°)	557.6	3.2	B2/1000		
BM (30°-60°)	3565.5	20.7	B3/5000		
BH (60°-80°)	4427.1	25.7	B4/5000		G2/5000
BVH (80°-90°)	64.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3	1317.3
2.5°	1302.0	1305.8	1303.9	1303.9	1309.6	1313.5	1315.4	1334.4	1326.8	1332.5	1326.8
5°	1305.8	1305.8	1309.6	1305.8	1309.6	1305.8	1309.6	1303.9	1309.6	1313.5	1319.2
7.5°	1298.2	1294.4	1288.7	1288.7	1286.8	1283.0	1277.3	1292.5	1284.9	1290.6	1300.1
10°	1300.1	1294.4	1275.4	1279.2	1262.1	1262.1	1265.9	1265.9	1283.0	1302.0	1307.7
12.5°	1300.1	1288.7	1283.0	1258.3	1258.3	1260.2	1269.7	1273.5	1284.9	1292.5	1311.6
15°	1300.1	1294.4	1284.9	1252.5	1260.2	1256.3	1265.9	1265.9	1290.6	1303.9	1313.5
17.5°	1307.7	1311.6	1294.4	1264.0	1265.9	1273.5	1267.8	1273.5	1303.9	1313.5	1326.8
20°	1309.6	1294.4	1288.7	1269.7	1286.8	1283.0	1281.1	1292.5	1302.0	1319.2	1334.4
22.5°	1305.8	1311.6	1288.7	1286.8	1302.0	1309.6	1313.5	1300.1	1311.6	1323.0	1336.3
25°	1338.2	1317.3	1311.6	1307.7	1315.4	1323.0	1319.2	1330.6	1330.6	1343.9	1361.0
27.5°	1425.8	1427.7	1416.2	1370.6	1355.3	1338.2	1345.8	1376.3	1412.4	1441.0	1446.7
30°	1465.7	1473.4	1503.8	1496.2	1490.5	1496.2	1494.3	1501.9	1505.7	1507.6	1501.9
32.5°	1501.9	1498.1	1484.8	1519.0	1631.3	1717.0	1635.2	1522.8	1498.1	1490.5	1498.1
35°	1633.3	1633.3	1604.7	1560.9	1619.9	1640.9	1602.8	1549.5	1580.0	1642.8	1646.6
37.5°	1802.7	1777.9	1789.3	1783.6	1718.9	1673.2	1739.9	1774.1	1779.8	1777.9	1797.0
40°	1903.6	1886.4	1869.3	1899.8	1958.8	2000.6	1941.6	1859.8	1880.7	1922.6	1905.5
42.5°	2133.9	2090.1	2093.9	2063.5	2061.6	2048.2	2034.9	2040.6	2071.1	2118.7	2126.3
45°	2369.9	2390.9	2377.5	2320.4	2347.1	2347.1	2309.0	2337.6	2352.8	2408.0	2415.6
47.5°	2739.2	2729.7	2735.4	2684.0	2682.1	2695.4	2682.1	2684.0	2731.6	2727.8	2706.9
50°	3171.3	3198.0	3205.6	3180.8	3150.4	3144.7	3123.7	3150.4	3178.9	3180.8	3163.7
52.5°	3769.0	3797.6	3797.6	3805.2	3843.3	3824.2	3820.4	3822.3	3767.1	3729.1	3748.1
55°	4522.9	4532.4	4564.7	4631.4	4747.5	4762.7	4690.4	4658.0	4557.1	4496.2	4543.8
57.5°	5267.1	5305.2	5394.7	5567.9	5710.7	5866.8	5657.4	5444.2	5246.2	5149.1	5166.3
60°	5885.8	5941.0	6112.3	6354.1	6750.0	6892.8	6538.7	6173.2	5771.6	5474.6	5594.6
62.5°	6177.0	6262.7	6407.4	6896.6	7490.5	7696.1	7176.4	6512.1	5902.9	5617.4	5611.7
64°	6179.0	6192.3	6481.6	7008.9	7619.9	8017.8	7330.6	6512.1	5935.3	5583.1	5647.9
65°	6051.4	6106.6	6386.4	6906.1	7538.1	8044.4	7277.3	6422.6	5802.0	5527.9	5558.4
67.5°	5472.7	5470.8	5729.7	6245.6	7123.1	7741.8	6824.3	5922.0	5472.7	5175.8	5211.9
70°	4151.7	4218.3	4465.7	5099.6	6163.7	6826.2	5967.7	5033.0	4473.4	4235.4	4222.1
72.5°	2484.1	2571.7	2887.7	3660.5	4787.5	5592.7	4736.1	3723.4	3049.5	2672.6	2682.1
75°	1132.6	1197.3	1414.3	2044.4	3190.4	4088.8	3209.4	2152.9	1543.8	1303.9	1269.7
77.5°	317.9	357.9	477.8	938.5	1751.3	2451.8	1800.8	1037.4	673.9	559.6	548.2
80°	142.8	150.4	169.4	228.4	555.8	1081.2	744.3	380.7	253.2	209.4	199.9
82.5°	78.0	83.8	110.4	118.0	158.0	287.4	245.6	178.9	152.3	121.8	118.0
85°	43.8	45.7	62.8	62.8	76.1	83.8	89.5	95.2	93.3	68.5	66.6
87.5°	13.3	15.2	19.0	19.0	19.0	19.0	30.5	41.9	45.7	32.4	32.4
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)