

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: P479831

Luminaire Tested: **IFLD-S-SA2D-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479831
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

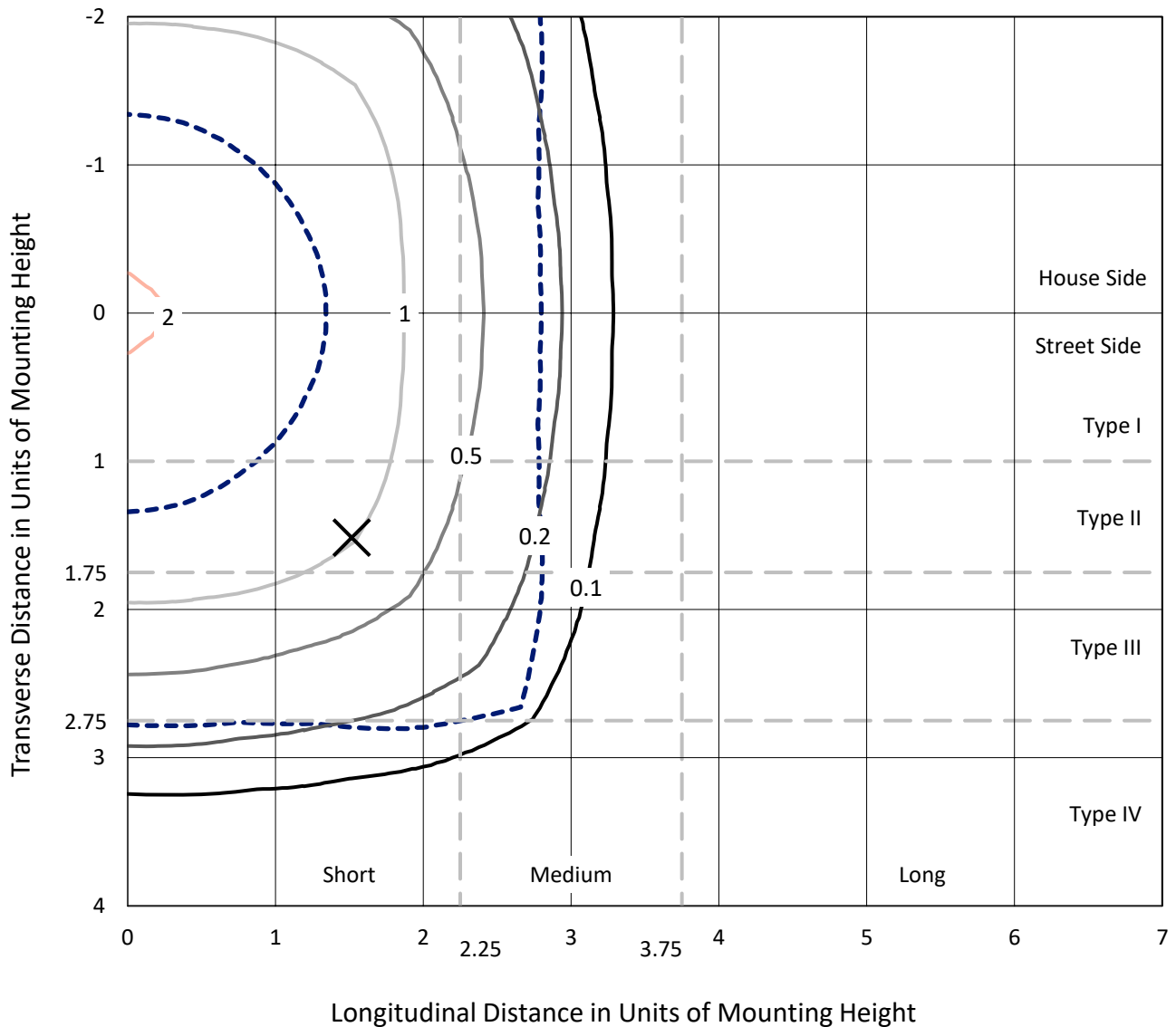
Lumens per Lamp: N/A
Luminaire Lumens: 11797.7 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 123.9
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

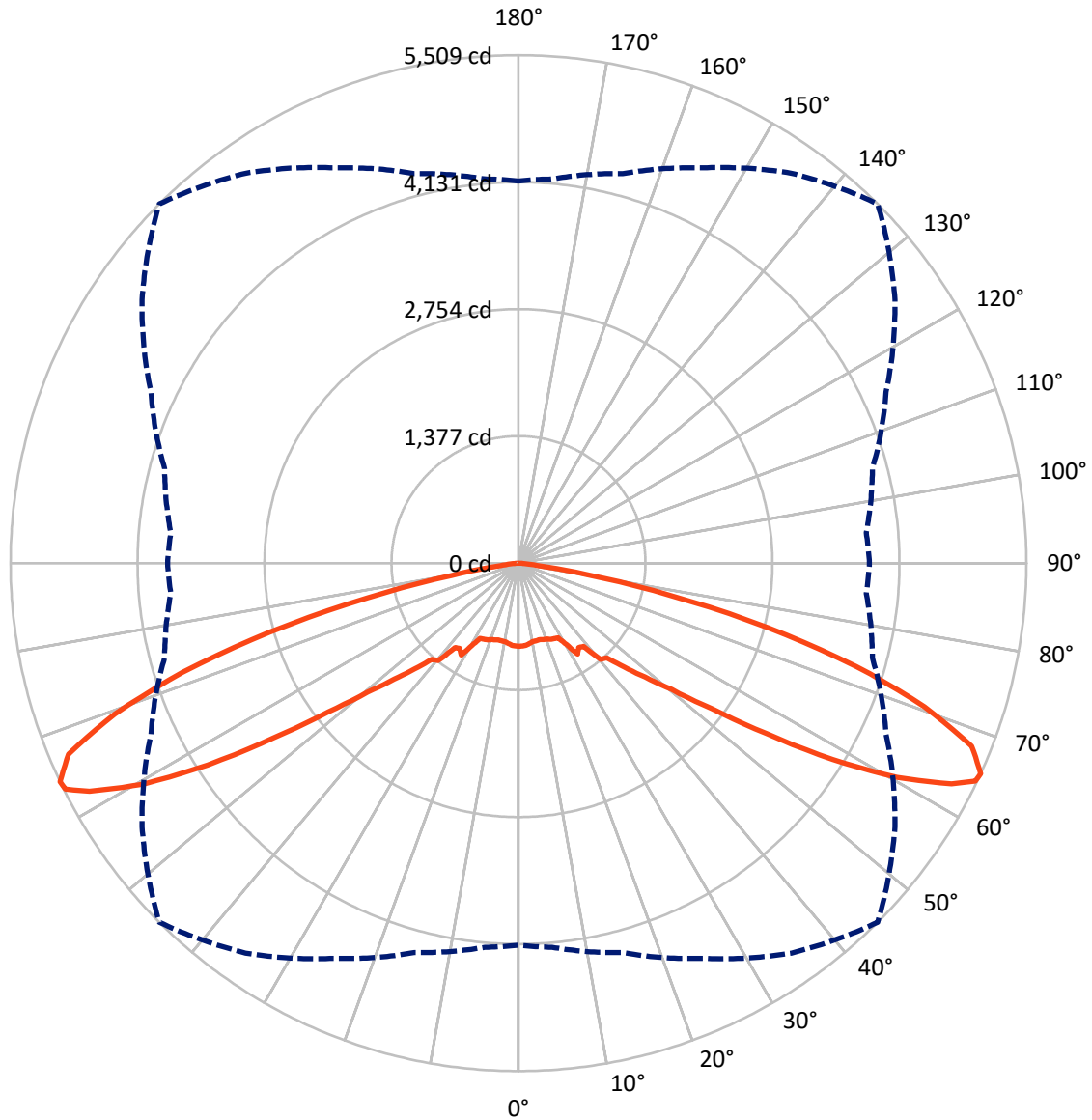
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 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	5898.9	0.0	5898.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5898.9	0.0	5898.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	11797.7	0.0	11797.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.6	0.7
10°-20°	248.6	2.1
20°-30°	430.4	3.6
30°-40°	715.7	6.1
40°-50°	1291.2	10.9
50°-60°	2876.3	24.4
60°-70°	4286.6	36.3
70°-80°	1776.4	15.1
80°-90°	88.0	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°	11797.7	100.0
0°-180°	11797.7	100.0

Coefficient of Utilization



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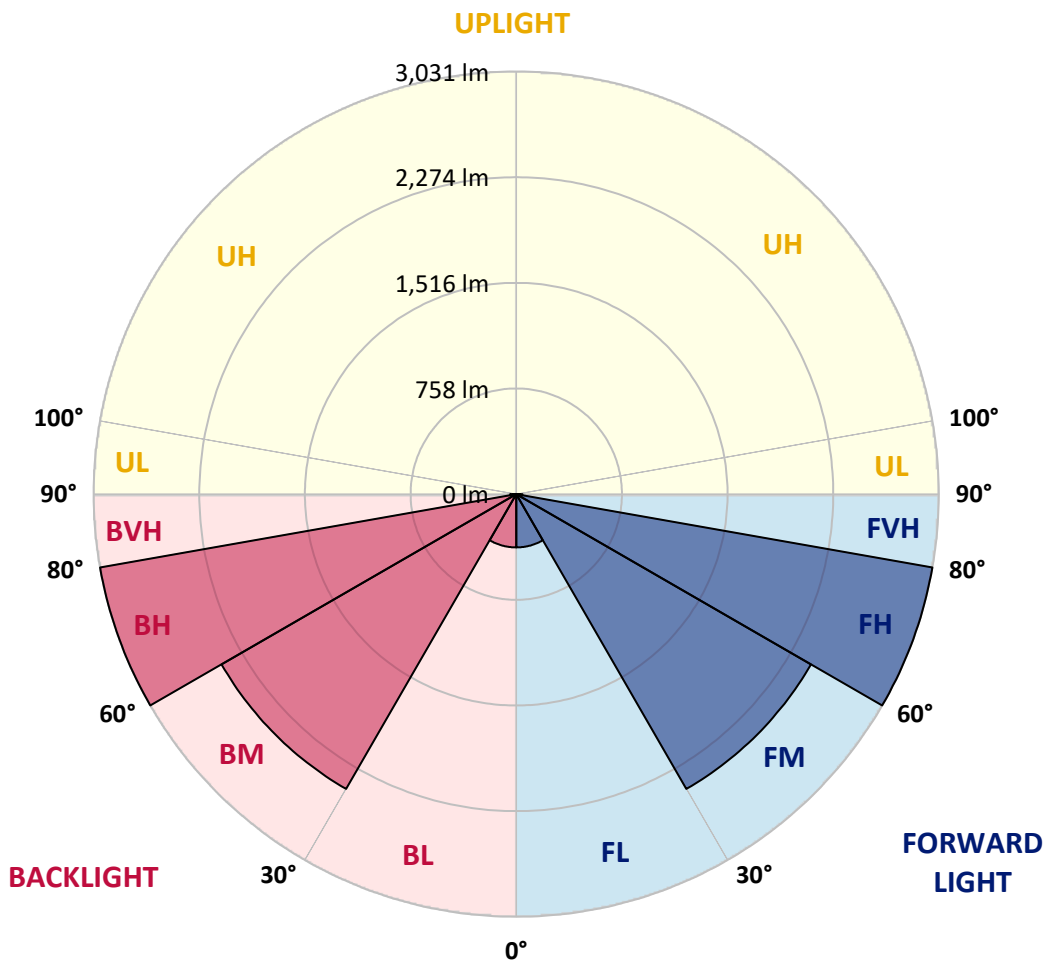
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	381.8	3.2			
FM (30°-60°)	2441.5	20.7			
FH (60°-80°)	3031.5	25.7			G2/5000
FVH (80°-90°)	44.0	0.4			G1/100
BL (0°-30°)	381.8	3.2	B1/500		
BM (30°-60°)	2441.5	20.7	B2/2500		
BH (60°-80°)	3031.5	25.7	B4/5000		G2/5000
BVH (80°-90°)	44.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0	902.0
2.5°	891.6	894.2	892.9	892.9	896.8	899.4	900.7	913.7	908.5	912.4	908.5
5°	894.2	894.2	896.8	894.2	896.8	894.2	896.8	892.9	896.8	899.4	903.3
7.5°	889.0	886.4	882.5	882.5	881.2	878.5	874.6	885.1	879.8	883.8	890.3
10°	890.3	886.4	873.3	875.9	864.2	864.2	866.8	866.8	878.5	891.6	895.5
12.5°	890.3	882.5	878.5	861.6	861.6	862.9	869.4	872.0	879.8	885.1	898.1
15°	890.3	886.4	879.8	857.7	862.9	860.3	866.8	866.8	883.8	892.9	899.4
17.5°	895.5	898.1	886.4	865.5	866.8	872.0	868.1	872.0	892.9	899.4	908.5
20°	896.8	886.4	882.5	869.4	881.2	878.5	877.2	885.1	891.6	903.3	913.7
22.5°	894.2	898.1	882.5	881.2	891.6	896.8	899.4	890.3	898.1	905.9	915.0
25°	916.3	902.0	898.1	895.5	900.7	905.9	903.3	911.1	911.1	920.3	932.0
27.5°	976.3	977.6	969.8	938.5	928.1	916.3	921.6	942.4	967.2	986.7	990.6
30°	1003.7	1008.9	1029.7	1024.5	1020.6	1024.5	1023.2	1028.4	1031.1	1032.4	1028.4
32.5°	1028.4	1025.8	1016.7	1040.2	1117.1	1175.7	1119.7	1042.8	1025.8	1020.6	1025.8
35°	1118.4	1118.4	1098.8	1068.9	1109.3	1123.6	1097.5	1061.0	1081.9	1124.9	1127.5
37.5°	1234.4	1217.5	1225.3	1221.4	1177.0	1145.8	1191.4	1214.8	1218.8	1217.5	1230.5
40°	1303.5	1291.7	1280.0	1300.9	1341.3	1370.0	1329.5	1273.5	1287.8	1316.5	1304.8
42.5°	1461.2	1431.2	1433.8	1413.0	1411.7	1402.5	1393.4	1397.3	1418.2	1450.8	1456.0
45°	1622.8	1637.2	1628.0	1588.9	1607.2	1607.2	1581.1	1600.7	1611.1	1648.9	1654.1
47.5°	1875.7	1869.2	1873.1	1837.9	1836.6	1845.7	1836.6	1837.9	1870.5	1867.9	1853.5
50°	2171.6	2189.8	2195.1	2178.1	2157.3	2153.3	2139.0	2157.3	2176.8	2178.1	2166.4
52.5°	2580.9	2600.4	2600.4	2605.7	2631.7	2618.7	2616.1	2617.4	2579.6	2553.5	2566.6
55°	3097.1	3103.6	3125.7	3171.4	3250.9	3261.3	3211.8	3189.6	3120.5	3078.8	3111.4
57.5°	3606.7	3632.8	3694.1	3812.7	3910.4	4017.3	3873.9	3728.0	3592.4	3525.9	3537.6
60°	4030.4	4068.2	4185.5	4351.0	4622.1	4719.9	4477.5	4227.2	3952.2	3748.8	3830.9
62.5°	4229.8	4288.4	4387.5	4722.5	5129.2	5270.0	4914.1	4459.2	4042.1	3846.6	3842.7
64°	4231.1	4240.2	4438.3	4799.4	5217.8	5490.3	5019.7	4459.2	4064.2	3823.1	3867.4
65°	4143.8	4181.6	4373.2	4729.0	5161.8	5508.5	4983.2	4397.9	3973.0	3785.3	3806.2
67.5°	3747.5	3746.2	3923.5	4276.7	4877.6	5301.3	4673.0	4055.1	3747.5	3544.2	3568.9
70°	2842.9	2888.5	3058.0	3492.0	4220.7	4674.3	4086.4	3446.4	3063.2	2900.2	2891.1
72.5°	1701.0	1761.0	1977.4	2506.6	3278.3	3829.6	3243.1	2549.6	2088.2	1830.1	1836.6
75°	775.6	819.9	968.5	1399.9	2184.6	2799.9	2197.7	1474.2	1057.1	892.9	869.4
77.5°	217.7	245.1	327.2	642.6	1199.2	1678.9	1233.1	710.4	461.4	383.2	375.4
80°	97.8	103.0	116.0	156.4	380.6	740.4	509.7	260.7	173.4	143.4	136.9
82.5°	53.4	57.4	75.6	80.8	108.2	196.8	168.1	122.5	104.3	83.4	80.8
85°	30.0	31.3	43.0	43.0	52.1	57.4	61.3	65.2	63.9	46.9	45.6
87.5°	9.1	10.4	13.0	13.0	13.0	13.0	20.9	28.7	31.3	22.2	22.2
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)