

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: P479829

Luminaire Tested: **IFLD-S-SA2B-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479829
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-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

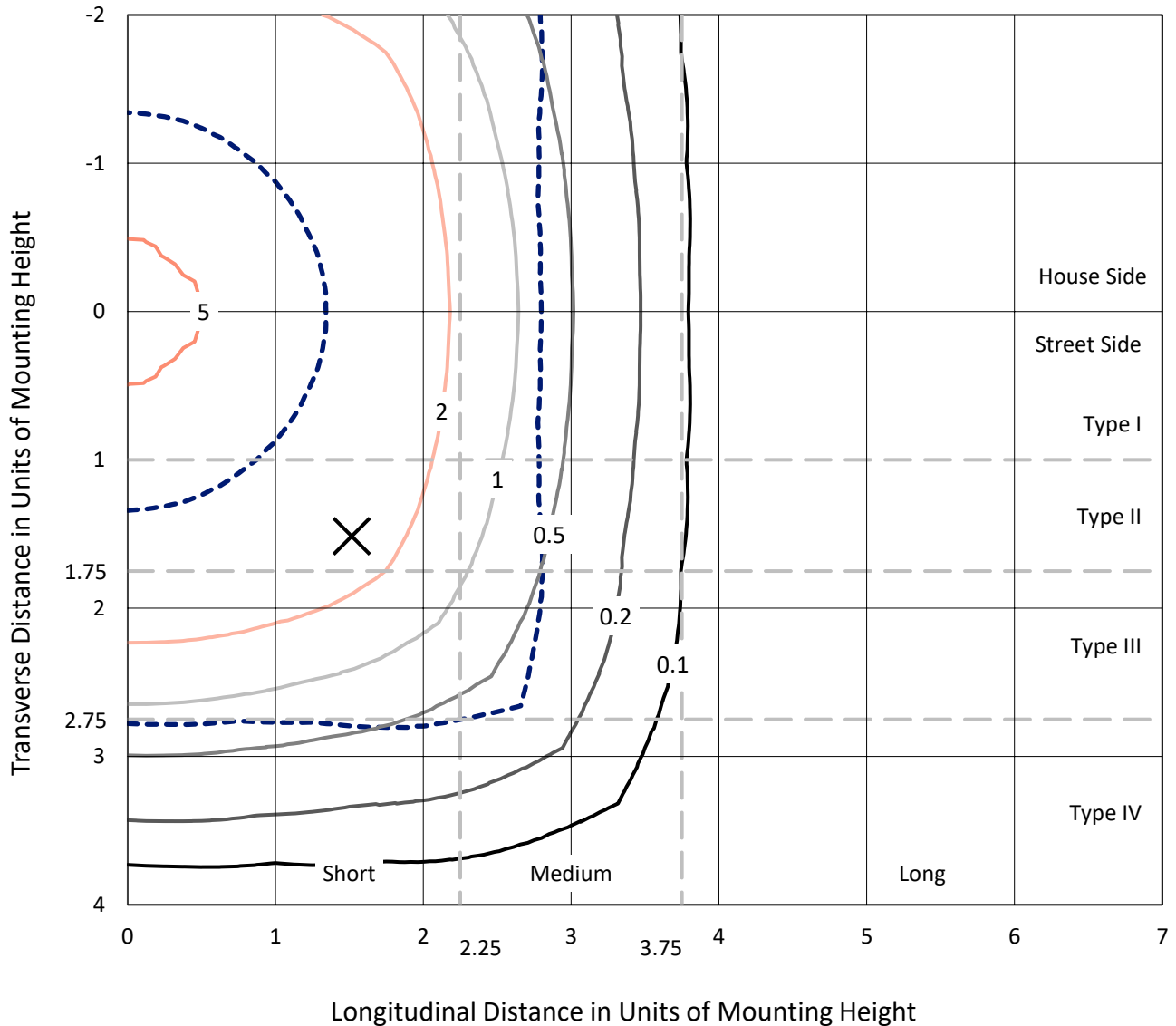
Lumens per Lamp: N/A
Luminaire Lumens: 8613 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 82.4
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

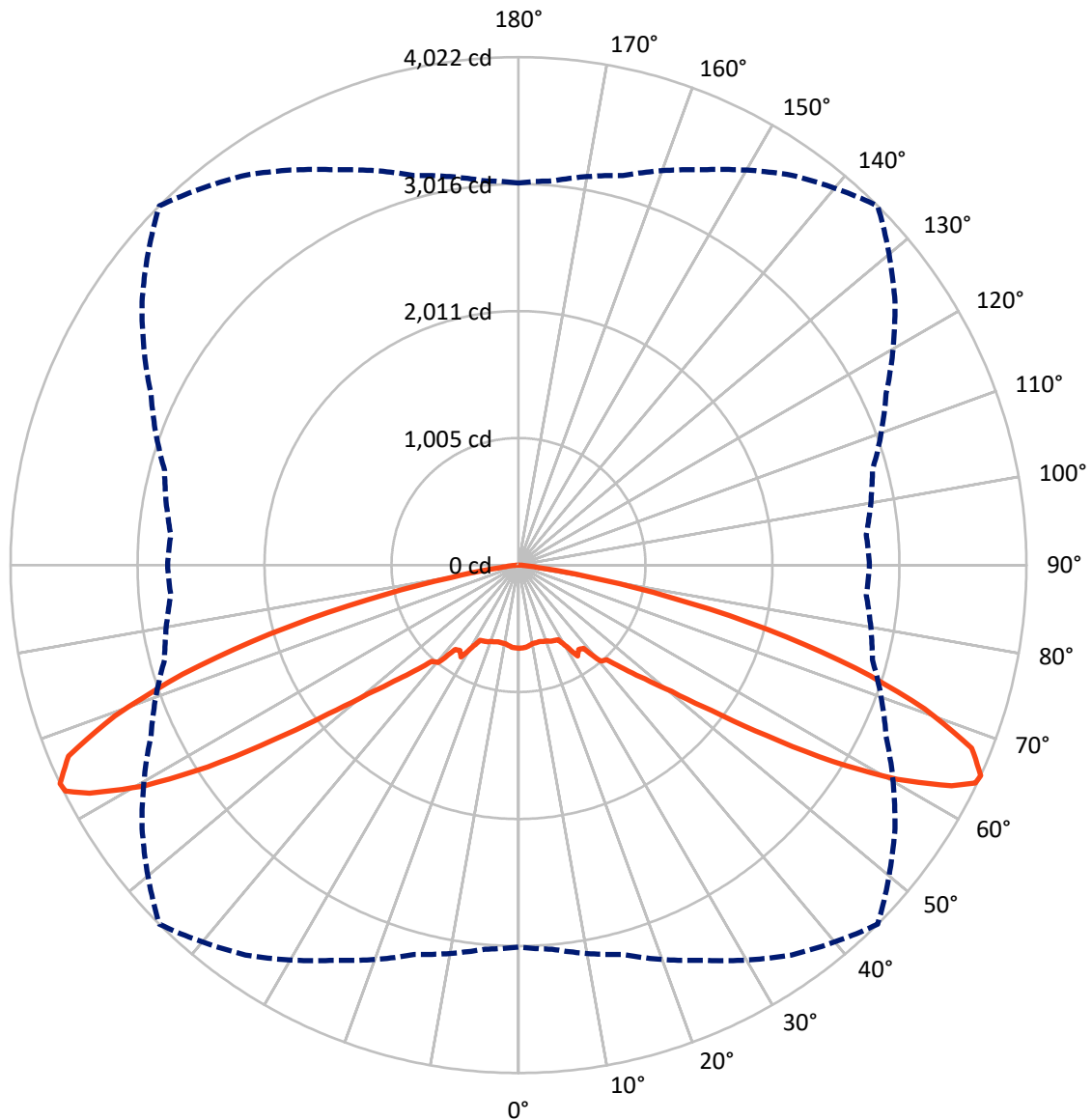
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.6 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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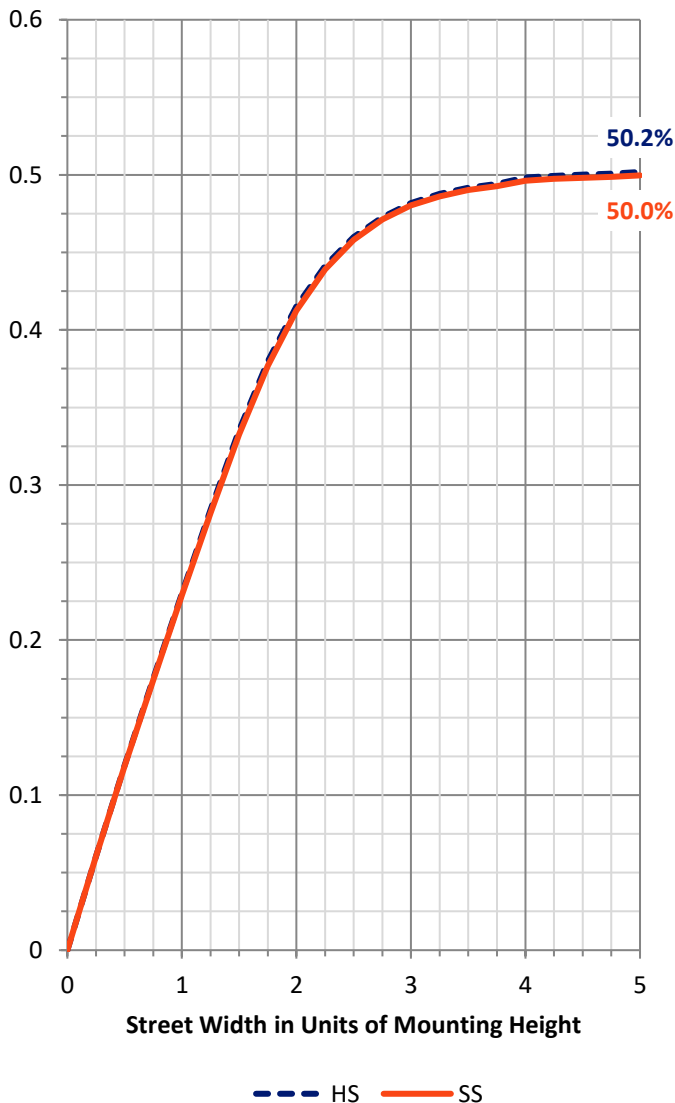
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4306.5	0.0	4306.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4306.5	0.0	4306.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	8613.0	0.0	8613.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	0.7
10°-20°	181.5	2.1
20°-30°	314.2	3.6
30°-40°	522.5	6.1
40°-50°	942.6	10.9
50°-60°	2099.8	24.4
60°-70°	3129.4	36.3
70°-80°	1296.9	15.1
80°-90°	64.2	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°	8613.0	100.0
0°-180°	8613.0	100.0



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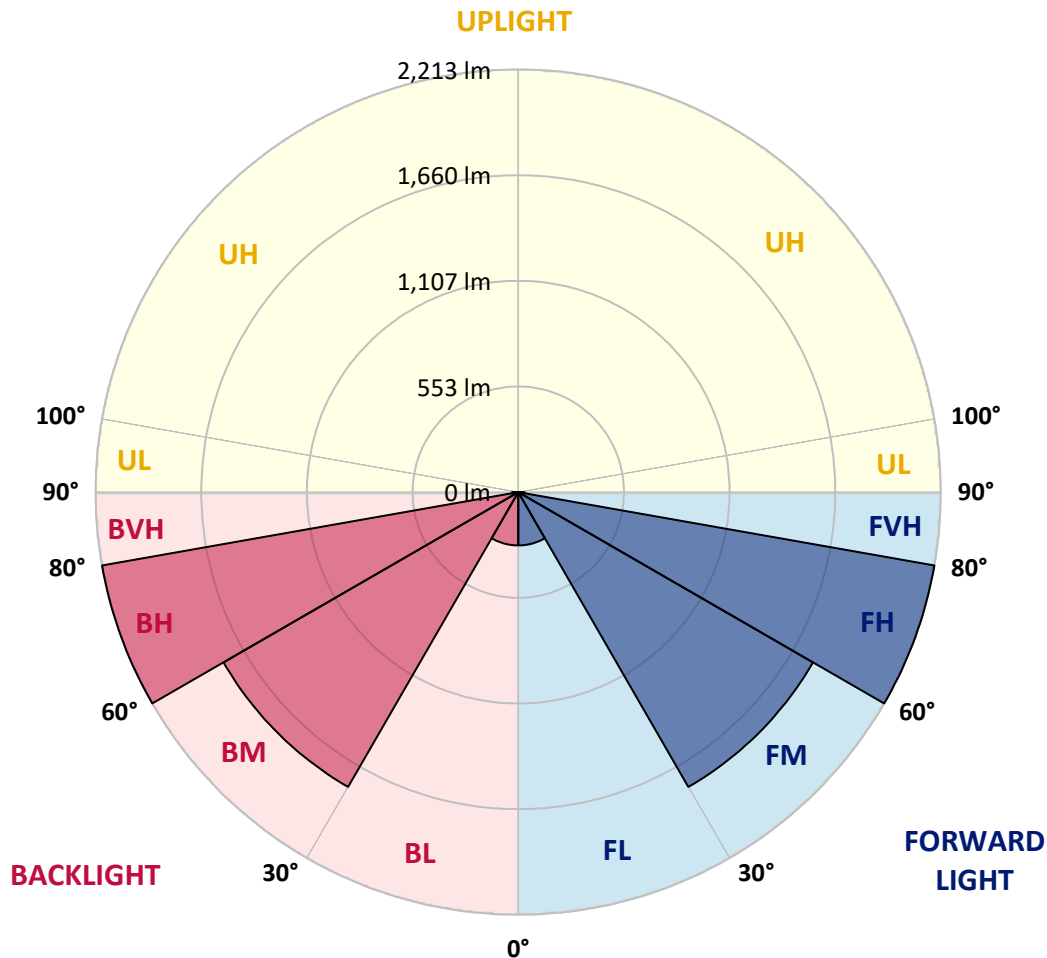
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.8	3.2			
FM (30°-60°)	1782.5	20.7			
FH (60°-80°)	2213.2	25.7			G2/5000
FVH (80°-90°)	32.1	0.4			G1/100
BL (0°-30°)	278.8	3.2	B1/500		
BM (30°-60°)	1782.5	20.7	B2/2500		
BH (60°-80°)	2213.2	25.7	B3/2500		G2/5000
BVH (80°-90°)	32.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5	658.5
2.5°	650.9	652.8	651.9	651.9	654.7	656.6	657.6	667.1	663.3	666.1	663.3
5°	652.8	652.8	654.7	652.8	654.7	652.8	654.7	651.9	654.7	656.6	659.5
7.5°	649.0	647.1	644.2	644.2	643.3	641.4	638.5	646.1	642.3	645.2	650.0
10°	650.0	647.1	637.6	639.5	630.9	630.9	632.8	632.8	641.4	650.9	653.8
12.5°	650.0	644.2	641.4	629.0	629.0	630.0	634.7	636.6	642.3	646.1	655.7
15°	650.0	647.1	642.3	626.2	630.0	628.1	632.8	632.8	645.2	651.9	656.6
17.5°	653.8	655.7	647.1	631.9	632.8	636.6	633.8	636.6	651.9	656.6	663.3
20°	654.7	647.1	644.2	634.7	643.3	641.4	640.4	646.1	650.9	659.5	667.1
22.5°	652.8	655.7	644.2	643.3	650.9	654.7	656.6	650.0	655.7	661.4	668.0
25°	669.0	658.5	655.7	653.8	657.6	661.4	659.5	665.2	665.2	671.8	680.4
27.5°	712.8	713.7	708.0	685.2	677.6	669.0	672.8	688.0	706.1	720.4	723.2
30°	732.7	736.6	751.8	748.0	745.1	748.0	747.0	750.8	752.7	753.7	750.8
32.5°	750.8	748.9	742.3	759.4	815.5	858.4	817.4	761.3	748.9	745.1	748.9
35°	816.5	816.5	802.2	780.3	809.8	820.3	801.3	774.6	789.8	821.2	823.1
37.5°	901.2	888.8	894.5	891.7	859.3	836.5	869.8	886.9	889.8	888.8	898.3
40°	951.6	943.1	934.5	949.7	979.2	1000.1	970.6	929.7	940.2	961.1	952.6
42.5°	1066.8	1044.9	1046.8	1031.6	1030.6	1023.9	1017.3	1020.1	1035.4	1059.1	1063.0
45°	1184.8	1195.2	1188.6	1160.0	1173.3	1173.3	1154.3	1168.6	1176.2	1203.8	1207.6
47.5°	1369.4	1364.6	1367.5	1341.8	1340.8	1347.5	1340.8	1341.8	1365.6	1363.7	1353.2
50°	1585.4	1598.7	1602.5	1590.2	1574.9	1572.1	1561.6	1574.9	1589.2	1590.2	1581.6
52.5°	1884.2	1898.5	1898.5	1902.3	1921.3	1911.8	1909.9	1910.8	1883.2	1864.2	1873.7
55°	2261.0	2265.8	2282.0	2315.3	2373.3	2380.9	2344.8	2328.6	2278.2	2247.7	2271.5
57.5°	2633.1	2652.2	2696.9	2783.5	2854.8	2932.9	2828.2	2721.6	2622.7	2574.1	2582.7
60°	2942.4	2970.0	3055.6	3176.5	3374.4	3445.8	3268.8	3086.1	2885.3	2736.8	2796.8
62.5°	3088.0	3130.8	3203.1	3447.7	3744.6	3847.4	3587.6	3255.5	2951.0	2808.2	2805.4
64°	3088.9	3095.6	3240.3	3503.9	3809.3	4008.2	3664.7	3255.5	2967.1	2791.1	2823.4
65°	3025.2	3052.8	3192.7	3452.5	3768.4	4021.5	3638.0	3210.8	2900.5	2763.5	2778.7
67.5°	2735.9	2734.9	2864.4	3122.3	3560.9	3870.2	3411.5	2960.5	2735.9	2587.4	2605.5
70°	2075.5	2108.8	2232.5	2549.4	3081.3	3412.5	2983.3	2516.1	2236.3	2117.3	2110.7
72.5°	1241.9	1285.6	1443.6	1830.0	2393.3	2795.8	2367.6	1861.4	1524.5	1336.1	1340.8
75°	566.2	598.6	707.1	1022.0	1594.9	2044.1	1604.4	1076.3	771.8	651.9	634.7
77.5°	158.9	178.9	238.9	469.1	875.5	1225.7	900.2	518.6	336.9	279.8	274.1
80°	71.4	75.2	84.7	114.2	277.9	540.5	372.1	190.3	126.6	104.7	99.9
82.5°	39.0	41.9	55.2	59.0	79.0	143.7	122.8	89.5	76.1	60.9	59.0
85°	21.9	22.8	31.4	31.4	38.1	41.9	44.7	47.6	46.6	34.3	33.3
87.5°	6.7	7.6	9.5	9.5	9.5	9.5	15.2	20.9	22.8	16.2	16.2
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)