

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: P483134

Luminaire Tested: **IFLD-L-SA7A-727-U-T4FT-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483134
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-727-U-T4FT-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens with House Side Shield
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

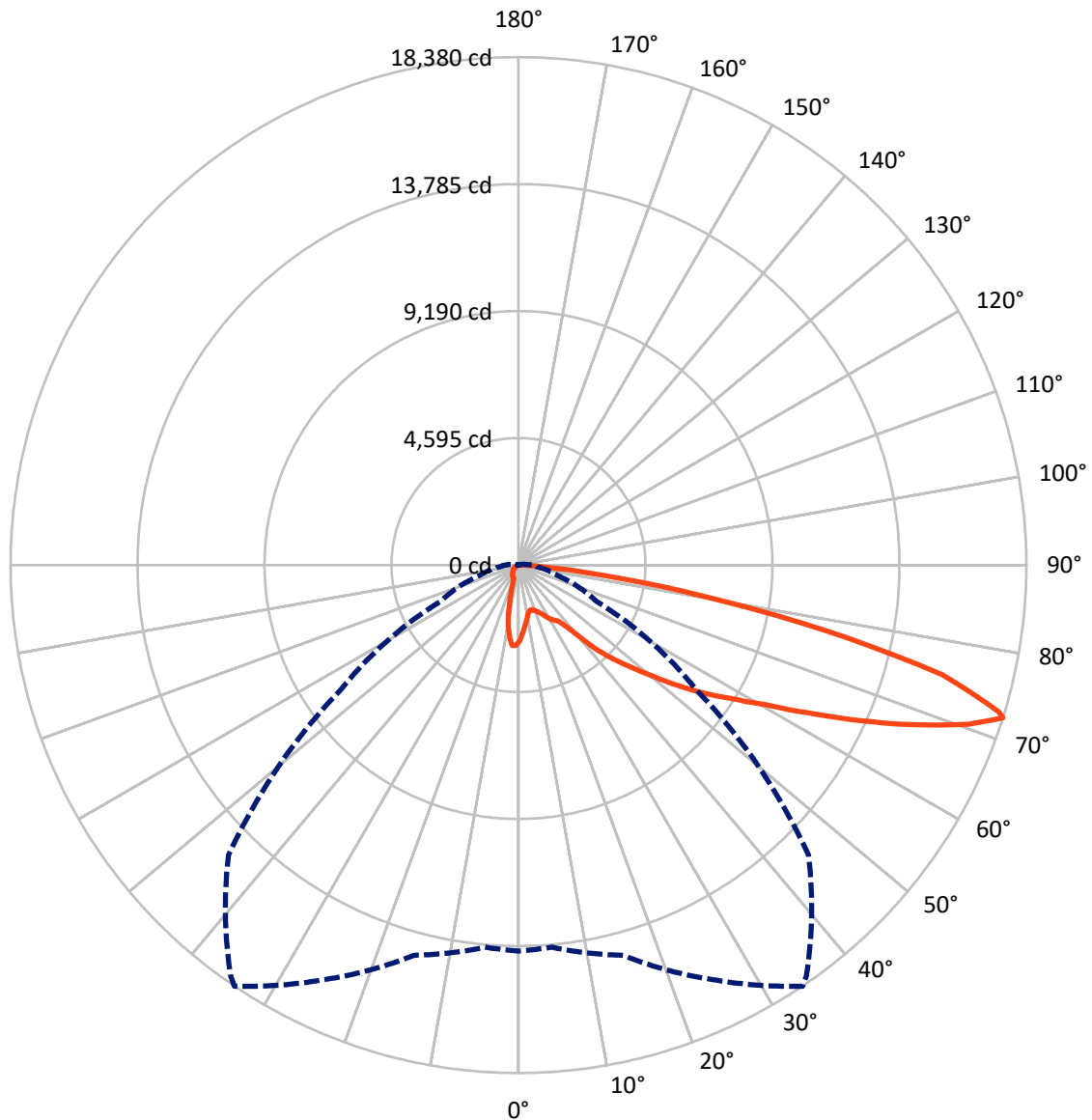
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18928 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 217.6
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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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 72-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1937.8	0.0	1937.8
	% Fixture	10.2	0.0	10.2
Street Side	Lumens	16990.2	0.0	16990.2
	% Fixture	89.8	0.0	89.8
Total	Lumens	18928.0	0.0	18928.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	1.3
10°-20°	544.2	2.9
20°-30°	821.5	4.3
30°-40°	1333.1	7.0
40°-50°	2506.8	13.2
50°-60°	4098.6	21.7
60°-70°	5448.6	28.8
70°-80°	3648.9	19.3
80°-90°	285.9	1.5
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°	18928.0	100.0
0°-180°	18928.0	100.0



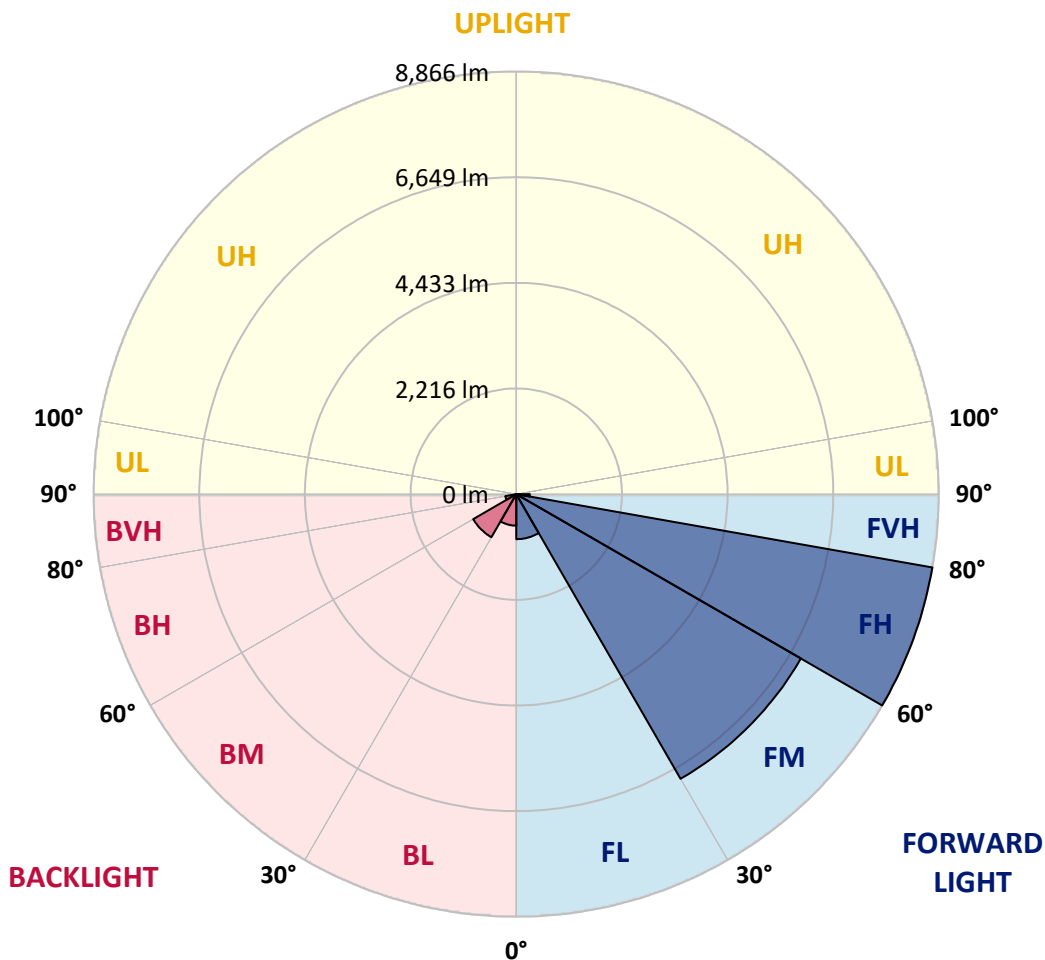
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	944.9	5.0			
FM (30°-60°)	6895.4	36.4			
FH (60°-80°)	8865.7	46.8			G4/12000
FVH (80°-90°)	284.1	1.5			G3/500
BL (0°-30°)	661.2	3.5	B2/1000		
BM (30°-60°)	1043.1	5.5	B2/2500		
BH (60°-80°)	231.7	1.2	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2
2.5°	2449.0	2443.6	2460.0	2487.3	2514.7	2503.8	2555.7	2610.5	2648.8	2700.8	2763.7
5°	2139.8	2153.5	2169.9	2224.6	2260.2	2268.4	2364.2	2435.3	2553.0	2673.4	2785.6
7.5°	1858.0	1874.4	1907.2	1967.4	2041.3	2060.5	2156.2	2298.5	2451.8	2610.5	2793.8
10°	1652.8	1669.2	1704.7	1743.1	1841.6	1841.6	1972.9	2169.9	2369.7	2555.7	2796.5
12.5°	1609.0	1617.2	1614.4	1644.5	1707.5	1721.2	1849.8	2065.9	2298.5	2536.6	2840.3
15°	1661.0	1666.4	1639.1	1622.7	1677.4	1691.1	1811.5	2003.0	2252.0	2547.5	2911.5
17.5°	1764.9	1745.8	1691.1	1666.4	1713.0	1721.2	1833.4	2000.3	2246.5	2577.6	2993.6
20°	1825.1	1847.0	1751.3	1704.7	1770.4	1781.4	1901.8	2044.0	2273.9	2629.6	3108.5
22.5°	1931.9	1942.8	1814.2	1784.1	1847.0	1847.0	1983.8	2131.6	2339.6	2714.5	3245.3
25°	2082.4	2068.7	1918.2	1888.1	1948.3	1972.9	2109.7	2271.2	2440.8	2793.8	3371.2
27.5°	2200.0	2208.2	2085.1	2005.7	2107.0	2123.4	2271.2	2421.7	2517.4	2859.5	3524.4
30°	2375.1	2358.7	2227.4	2137.1	2263.0	2265.7	2408.0	2564.0	2665.2	2977.1	3754.3
32.5°	2583.1	2550.3	2399.8	2271.2	2372.4	2397.0	2542.1	2769.2	2895.1	3198.8	4110.0
35°	3023.7	2944.3	2698.0	2498.3	2506.5	2517.4	2741.8	3067.4	3212.5	3480.6	4586.1
37.5°	3666.7	3633.9	3354.8	2974.4	2829.4	2796.5	3048.3	3461.5	3642.1	3852.8	5204.5
40°	4304.3	4257.8	3997.8	3710.5	3447.8	3382.1	3508.0	3984.1	4148.3	4369.9	5839.4
42.5°	5013.0	4930.9	4624.4	4391.8	4227.7	4156.5	4107.3	4640.8	4826.9	4977.4	6460.5
45°	5729.9	5595.8	5152.5	4974.7	4887.1	4848.8	4843.3	5467.2	5579.4	5609.5	7150.1
47.5°	6359.3	6214.2	5812.0	5612.2	5546.6	5535.6	5842.1	6419.5	6331.9	6252.5	7919.0
50°	6843.6	6750.6	6460.5	6389.4	6340.1	6321.0	7037.9	7399.1	6994.1	6854.5	8594.9
52.5°	7593.4	7385.4	7057.0	7081.7	7254.0	7256.8	8250.1	8329.4	7544.1	7267.7	9232.4
55°	8192.6	8055.8	7787.6	7752.1	8206.3	8255.6	9336.4	9035.4	7850.6	7661.8	9467.8
57.5°	8898.6	8835.7	8641.4	8646.8	9123.0	9227.0	10302.3	9631.9	8105.1	7916.2	9503.3
60°	9919.2	9738.6	9637.4	9683.9	10244.9	10346.1	11238.2	10061.5	8228.2	8083.2	9415.8
62.5°	11046.6	10835.9	10726.5	10964.5	11782.7	11799.1	11949.6	10441.9	8151.6	8126.9	8852.1
65°	12403.8	12195.9	12108.3	12587.2	13558.6	13498.4	12948.4	10603.3	7908.0	7686.4	7371.7
67.5°	13755.6	13629.7	13449.1	14212.6	15422.0	15422.0	13985.5	10543.1	7270.5	6170.5	4821.4
70°	14395.9	14483.5	14770.8	15969.3	17252.7	17121.3	15008.8	9850.8	5412.5	3313.7	1896.3
72°	13969.0	13878.7	14620.3	16543.9	18380.0	18163.9	14836.5	7831.4	3127.6	1453.0	659.5
72.5°	13235.7	13320.5	14341.2	16464.6	18169.3	18347.2	14415.1	7223.9	2572.2	1157.5	498.0
75°	8116.0	8261.0	10704.6	13980.0	15832.5	15632.7	11150.6	3442.3	987.8	492.5	177.9
77.5°	2963.5	3083.9	5193.6	8797.3	11260.1	11134.2	6452.3	1223.1	536.3	366.7	90.3
80°	771.6	834.6	1764.9	4058.0	6622.0	6630.2	2700.8	489.8	363.9	301.0	54.7
82.5°	153.2	169.7	541.8	1578.9	3094.8	3053.8	853.7	262.7	273.6	246.3	38.3
85°	19.2	24.6	114.9	536.3	1001.5	897.5	210.7	131.3	202.5	191.5	24.6
87.5°	2.7	2.7	27.4	123.1	210.7	205.2	43.8	41.0	90.3	117.7	13.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2	2769.2
2.5°	2799.3	2810.2	2848.5	2881.4	2919.7	2930.6	2914.2	2941.6	2903.3	2925.2	2930.6
5°	2804.8	2867.7	2938.8	2985.4	2974.4	2947.0	2925.2	2851.3	2799.3	2780.1	2821.2
7.5°	2843.1	2914.2	2990.8	2990.8	2930.6	2788.3	2651.5	2520.2	2410.7	2356.0	2402.5
10°	2892.3	2966.2	3045.6	2941.6	2717.2	2457.2	2263.0	2016.7	1849.8	1762.2	1770.4
12.5°	2958.0	3062.0	3089.3	2848.5	2476.4	2090.6	1737.6	1395.5	1236.8	1111.0	1113.7
15°	3042.8	3144.1	3062.0	2646.0	2169.9	1600.8	1176.6	851.0	725.1	659.5	659.5
17.5°	3155.0	3231.6	3053.8	2460.0	1756.7	1094.5	722.4	574.6	547.3	536.3	536.3
20°	3286.3	3343.8	2974.4	2169.9	1305.2	703.2	530.9	514.4	517.2	511.7	511.7
22.5°	3434.1	3453.3	2884.1	1833.4	883.8	519.9	495.3	498.0	500.8	495.3	498.0
25°	3590.1	3538.1	2752.8	1439.3	588.3	473.4	478.9	484.3	487.1	489.8	489.8
27.5°	3765.2	3661.2	2569.4	1053.5	459.7	446.0	462.4	478.9	481.6	481.6	478.9
30°	4022.4	3850.0	2391.6	714.2	405.0	415.9	443.3	462.4	476.1	476.1	473.4
32.5°	4348.1	4047.1	2142.6	487.1	374.9	380.4	402.2	440.6	470.7	473.4	465.2
35°	4799.5	4285.1	1882.6	388.6	353.0	355.7	369.4	399.5	451.5	467.9	465.2
37.5°	5275.7	4556.0	1559.7	350.3	336.6	333.8	342.0	366.7	413.2	454.2	457.0
40°	5781.9	4840.6	1220.4	331.1	322.9	317.4	320.2	331.1	366.7	418.7	429.6
42.5°	6258.0	5097.8	916.7	311.9	309.2	303.7	303.7	306.5	325.6	361.2	366.7
45°	6772.5	5308.5	697.8	298.3	290.1	292.8	281.8	276.4	290.1	292.8	290.1
47.5°	7254.0	5519.2	558.2	281.8	273.6	273.6	260.0	249.0	249.0	224.4	221.6
50°	7705.5	5634.1	446.0	260.0	257.2	254.5	235.3	216.2	199.8	169.7	164.2
52.5°	8080.4	5628.7	344.8	232.6	240.8	232.6	202.5	175.1	150.5	123.1	117.7
55°	8192.6	5366.0	260.0	191.5	205.2	194.3	161.4	136.8	109.5	87.6	84.8
57.5°	8096.8	4966.5	197.0	147.8	158.7	147.8	123.1	101.2	76.6	60.2	54.7
60°	7776.7	4498.6	153.2	114.9	120.4	112.2	93.0	76.6	54.7	38.3	32.8
62.5°	7169.2	3913.0	117.7	90.3	87.6	87.6	71.1	57.5	38.3	21.9	19.2
65°	5883.1	3051.0	90.3	62.9	62.9	62.9	54.7	41.0	24.6	10.9	5.5
67.5°	3694.1	1775.9	73.9	49.3	46.5	46.5	38.3	27.4	13.7	2.7	0.0
70°	1390.1	651.2	57.5	38.3	35.6	35.6	27.4	16.4	8.2	0.0	0.0
72°	478.9	249.0	46.5	27.4	27.4	24.6	19.2	13.7	5.5	0.0	0.0
72.5°	394.0	199.8	43.8	27.4	24.6	24.6	19.2	13.7	5.5	0.0	0.0
75°	142.3	82.1	30.1	19.2	16.4	16.4	13.7	8.2	2.7	0.0	0.0
77.5°	71.1	52.0	24.6	16.4	13.7	8.2	8.2	5.5	2.7	0.0	0.0
80°	43.8	32.8	13.7	10.9	8.2	5.5	2.7	2.7	0.0	0.0	0.0
82.5°	30.1	19.2	8.2	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0
85°	19.2	8.2	5.5	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	5.5	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)