

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: P479896

Luminaire Tested: **IFLD-M-SA4E-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479896
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

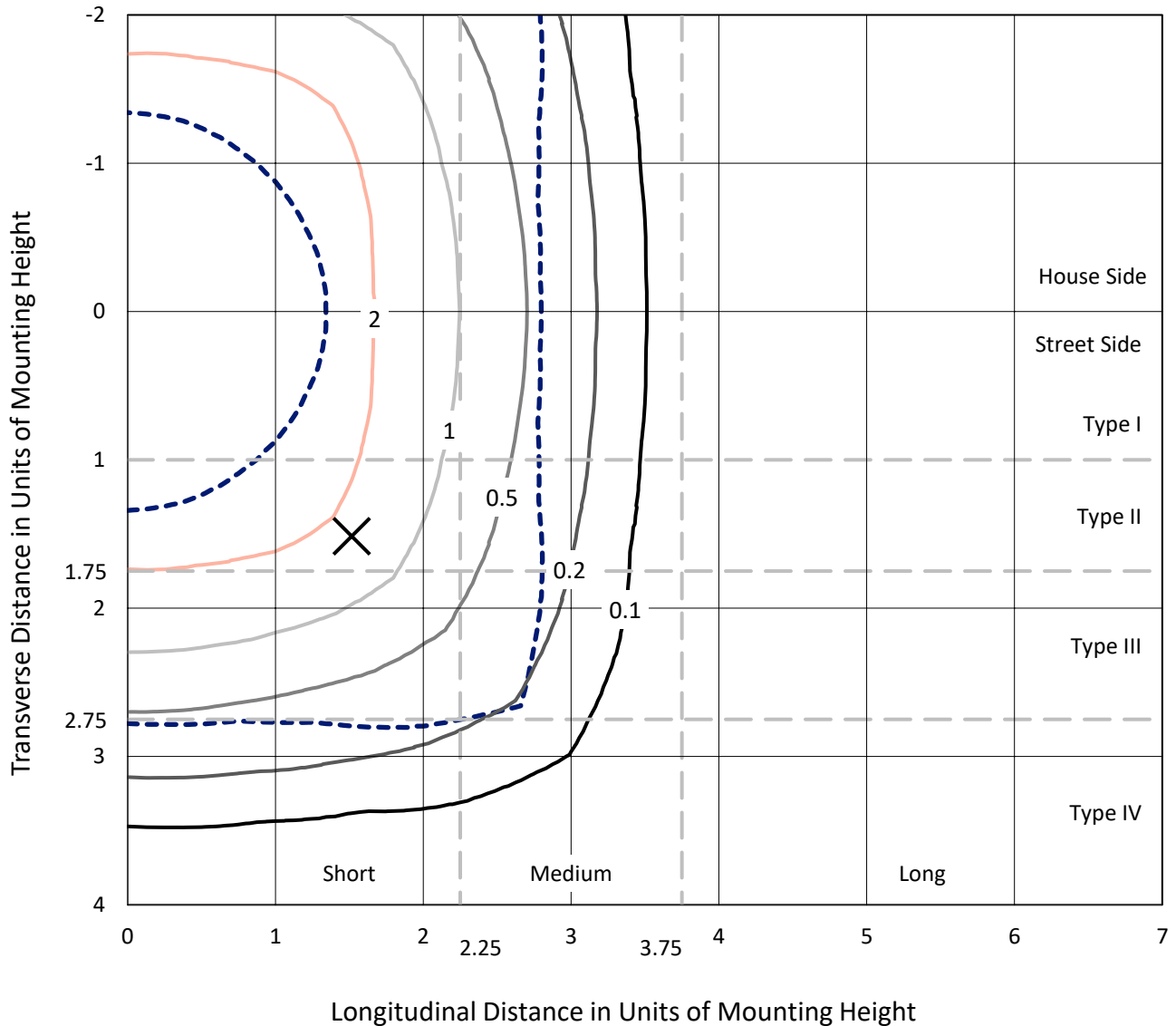
Lumens per Lamp: N/A
Luminaire Lumens: 29521.6 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 314.8
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

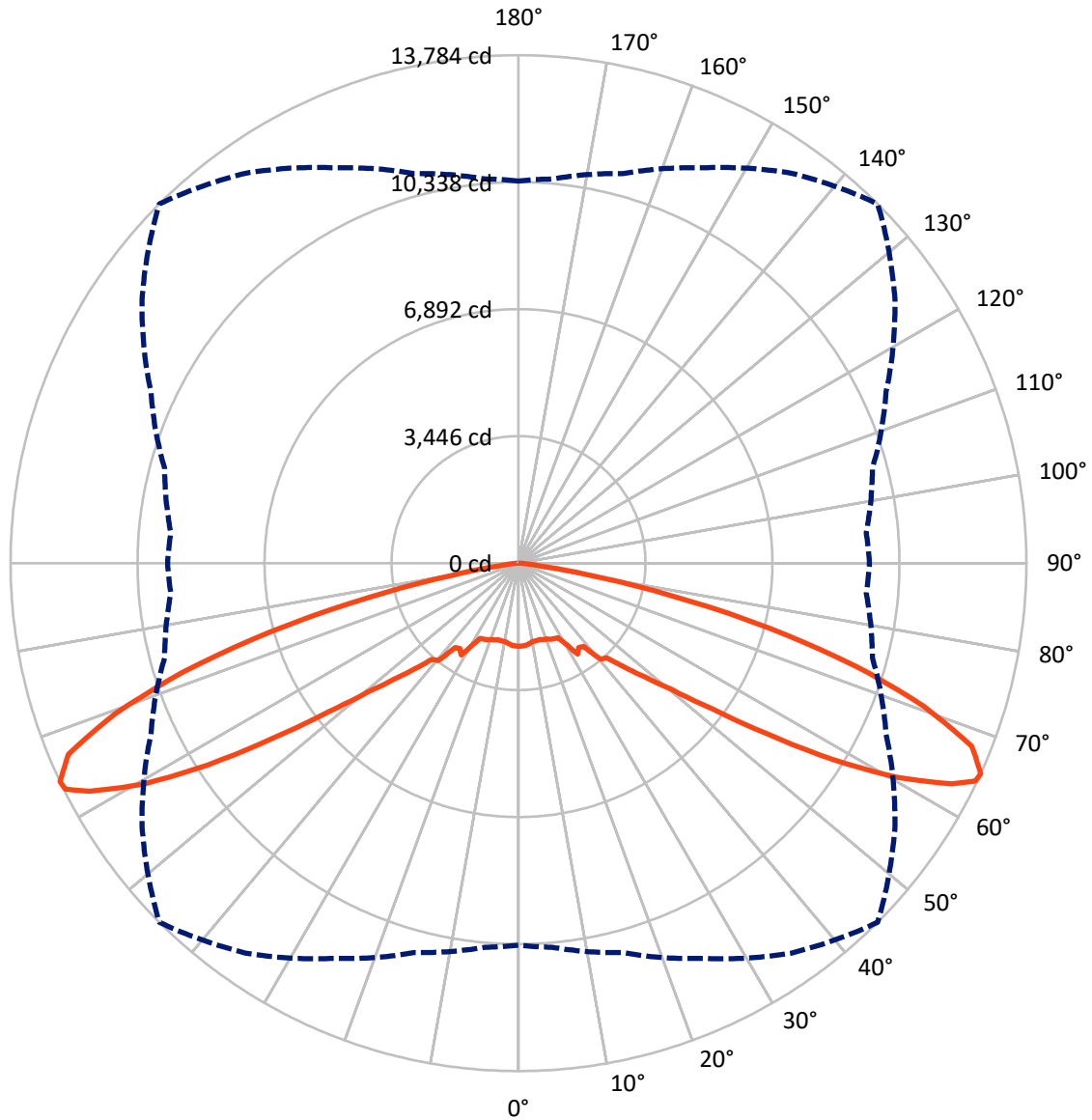
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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	14760.8	0.0	14760.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	14760.8	0.0	14760.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	29521.6	0.0	29521.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.8	0.7
10°-20°	622.2	2.1
20°-30°	1077.0	3.6
30°-40°	1790.8	6.1
40°-50°	3230.9	10.9
50°-60°	7197.3	24.4
60°-70°	10726.3	36.3
70°-80°	4445.1	15.1
80°-90°	220.2	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°	29521.6	100.0
0°-180°	29521.6	100.0

Coefficient of Utilization



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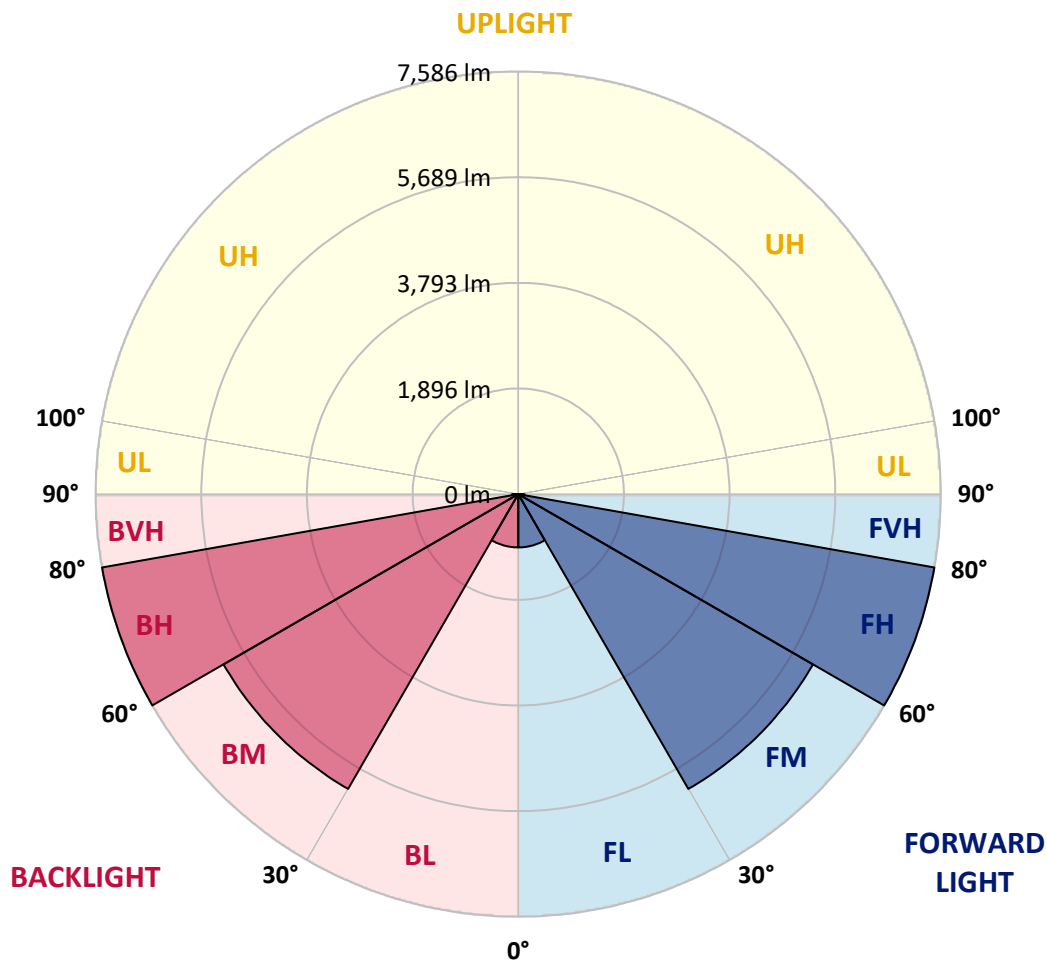
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	955.5	3.2			
FM (30°-60°)	6109.5	20.7			
FH (60°-80°)	7585.7	25.7			G4/12000
FVH (80°-90°)	110.1	0.4			G2/225
BL (0°-30°)	955.5	3.2	B2/1000		
BM (30°-60°)	6109.5	20.7	B4/8500		
BH (60°-80°)	7585.7	25.7	B5		G4/12000
BVH (80°-90°)	110.1	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1	2257.1
2.5°	2231.0	2237.5	2234.3	2234.3	2244.1	2250.6	2253.8	2286.5	2273.4	2283.2	2273.4
5°	2237.5	2237.5	2244.1	2237.5	2244.1	2237.5	2244.1	2234.3	2244.1	2250.6	2260.4
7.5°	2224.5	2218.0	2208.2	2208.2	2204.9	2198.4	2188.6	2214.7	2201.7	2211.4	2227.8
10°	2227.8	2218.0	2185.4	2191.9	2162.5	2162.5	2169.0	2169.0	2198.4	2231.0	2240.8
12.5°	2227.8	2208.2	2198.4	2156.0	2156.0	2159.3	2175.6	2182.1	2201.7	2214.7	2247.3
15°	2227.8	2218.0	2201.7	2146.2	2159.3	2152.7	2169.0	2169.0	2211.4	2234.3	2250.6
17.5°	2240.8	2247.3	2218.0	2165.8	2169.0	2182.1	2172.3	2182.1	2234.3	2250.6	2273.4
20°	2244.1	2218.0	2208.2	2175.6	2204.9	2198.4	2195.1	2214.7	2231.0	2260.4	2286.5
22.5°	2237.5	2247.3	2208.2	2204.9	2231.0	2244.1	2250.6	2227.8	2247.3	2266.9	2289.7
25°	2293.0	2257.1	2247.3	2240.8	2253.8	2266.9	2260.4	2279.9	2279.9	2302.8	2332.1
27.5°	2443.0	2446.3	2426.7	2348.4	2322.3	2293.0	2306.0	2358.2	2420.2	2469.1	2478.9
30°	2511.5	2524.6	2576.8	2563.7	2553.9	2563.7	2560.4	2573.5	2580.0	2583.3	2573.5
32.5°	2573.5	2567.0	2544.1	2602.9	2795.3	2942.1	2801.8	2609.4	2567.0	2553.9	2567.0
35°	2798.6	2798.6	2749.6	2674.6	2775.7	2811.6	2746.4	2655.0	2707.2	2814.9	2821.4
37.5°	3088.8	3046.4	3066.0	3056.2	2945.3	2867.1	2981.2	3039.9	3049.7	3046.4	3079.1
40°	3261.7	3232.4	3203.0	3255.2	3356.3	3428.1	3327.0	3186.7	3222.6	3294.3	3265.0
42.5°	3656.4	3581.4	3587.9	3535.7	3532.4	3509.6	3486.8	3496.6	3548.7	3630.3	3643.3
45°	4060.8	4096.7	4073.9	3976.0	4021.7	4021.7	3956.5	4005.4	4031.5	4126.1	4139.1
47.5°	4693.6	4677.3	4687.1	4599.0	4595.8	4618.6	4595.8	4599.0	4680.6	4674.0	4638.2
50°	5434.0	5479.7	5492.7	5450.3	5398.1	5388.4	5352.5	5398.1	5447.1	5450.3	5421.0
52.5°	6458.2	6507.1	6507.1	6520.2	6585.4	6552.8	6546.3	6549.5	6454.9	6389.7	6422.3
55°	7749.8	7766.2	7821.6	7935.8	8134.7	8160.8	8036.9	7981.4	7808.6	7704.2	7785.7
57.5°	9025.2	9090.4	9243.7	9540.5	9785.2	10052.6	9693.8	9328.5	8989.3	8822.9	8852.3
60°	10085.2	10179.8	10473.4	10887.6	11566.1	11810.7	11204.0	10577.8	9889.5	9380.7	9586.2
62.5°	10584.3	10731.1	10978.9	11817.2	12834.9	13187.1	12296.7	11158.3	10114.6	9625.3	9615.5
64°	10587.5	10610.4	11106.2	12009.6	13056.7	13738.4	12560.9	11158.3	10170.0	9566.6	9677.5
65°	10369.0	10463.6	10943.1	11833.5	12916.4	13784.0	12469.6	11005.0	9941.7	9472.0	9524.2
67.5°	9377.4	9374.2	9817.8	10701.7	12205.4	13265.4	11693.3	10147.2	9377.4	8868.6	8930.6
70°	7113.8	7228.0	7652.0	8738.1	10561.4	11696.5	10225.5	8624.0	7665.0	7257.3	7234.5
72.5°	4256.5	4406.6	4948.0	6272.3	8203.2	9582.9	8115.2	6379.9	5225.3	4579.5	4595.8
75°	1940.7	2051.6	2423.5	3503.1	5466.6	7006.2	5499.3	3689.0	2645.3	2234.3	2175.6
77.5°	544.7	613.2	818.7	1608.0	3000.8	4201.1	3085.6	1777.6	1154.6	958.9	939.4
80°	244.6	257.7	290.3	391.4	952.4	1852.7	1275.3	652.3	433.8	358.8	342.5
82.5°	133.7	143.5	189.2	202.2	270.7	492.5	420.8	306.6	260.9	208.7	202.2
85°	75.0	78.3	107.6	107.6	130.5	143.5	153.3	163.1	159.8	117.4	114.2
87.5°	22.8	26.1	32.6	32.6	32.6	32.6	52.2	71.8	78.3	55.4	55.4
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)