

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: P479817

Luminaire Tested: **IFLD-M-SA4D-760-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479817
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-760-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

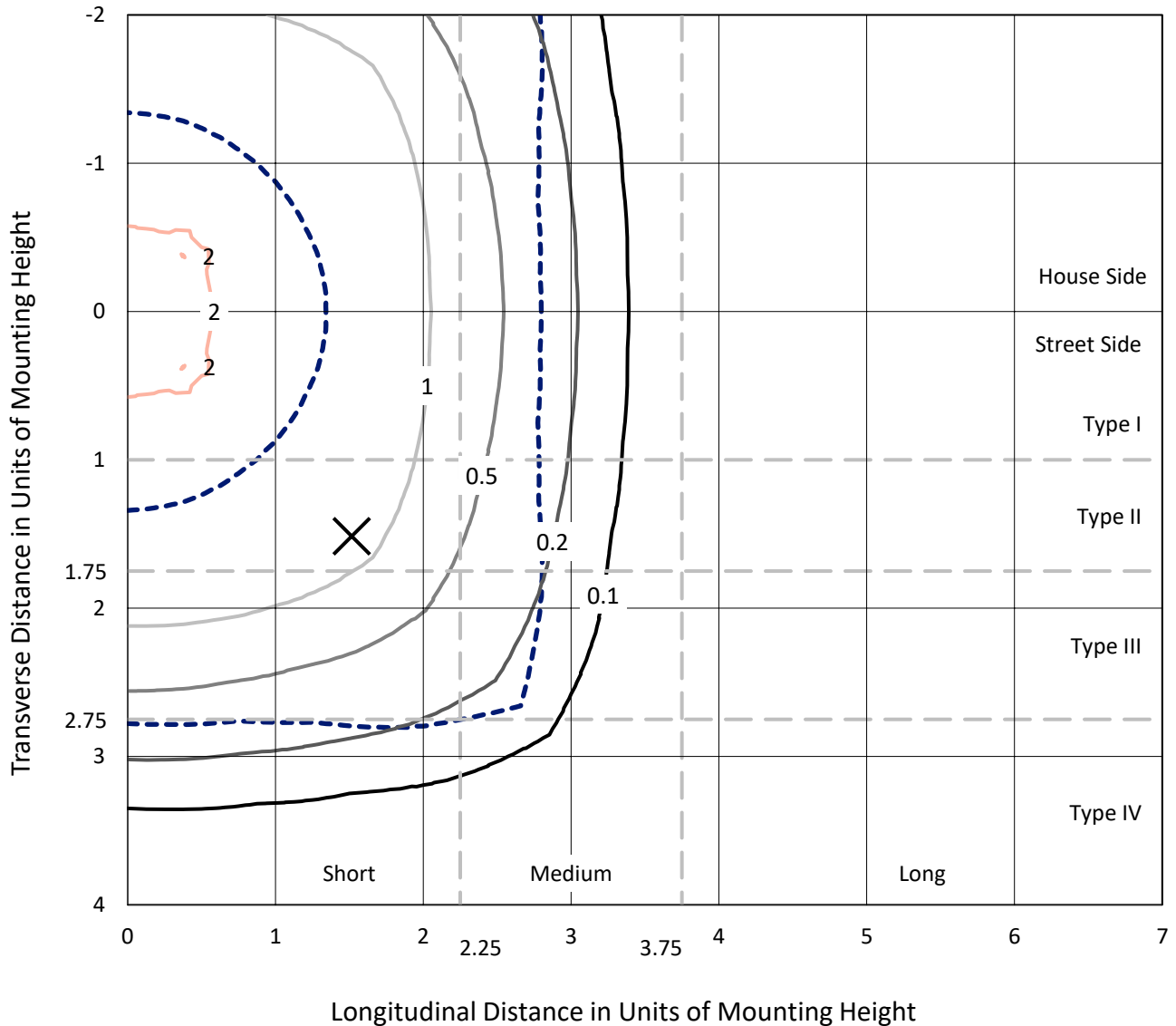
Lumens per Lamp: N/A
Luminaire Lumens: 32838.4 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 249.7
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

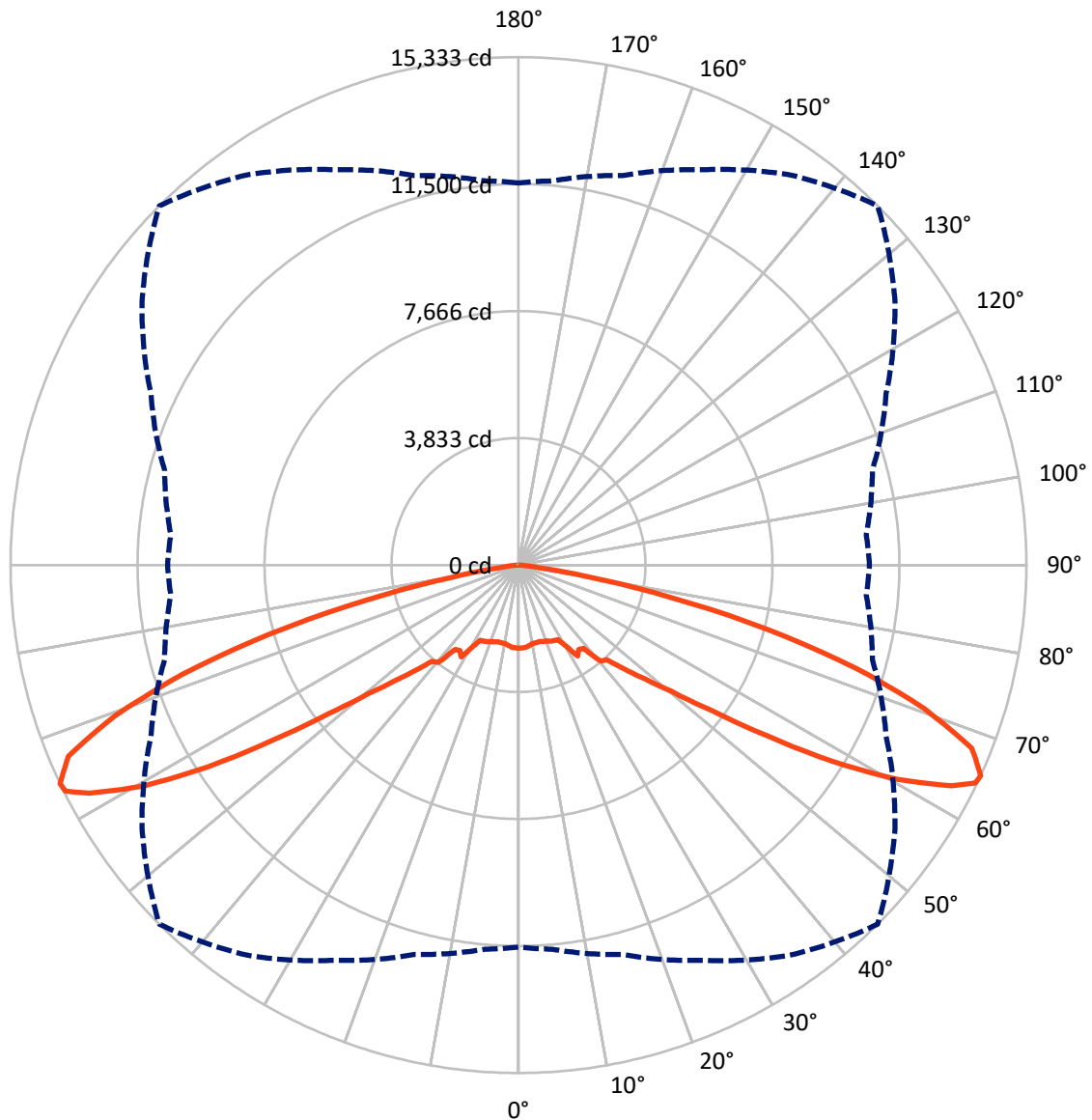
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 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	16419.2	0.0	16419.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16419.2	0.0	16419.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	32838.4	0.0	32838.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.6	0.7
10°-20°	692.1	2.1
20°-30°	1198.0	3.6
30°-40°	1992.0	6.1
40°-50°	3593.9	10.9
50°-60°	8006.0	24.4
60°-70°	11931.5	36.3
70°-80°	4944.5	15.1
80°-90°	244.9	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°	32838.4	100.0
0°-180°	32838.4	100.0

Coefficient of Utilization



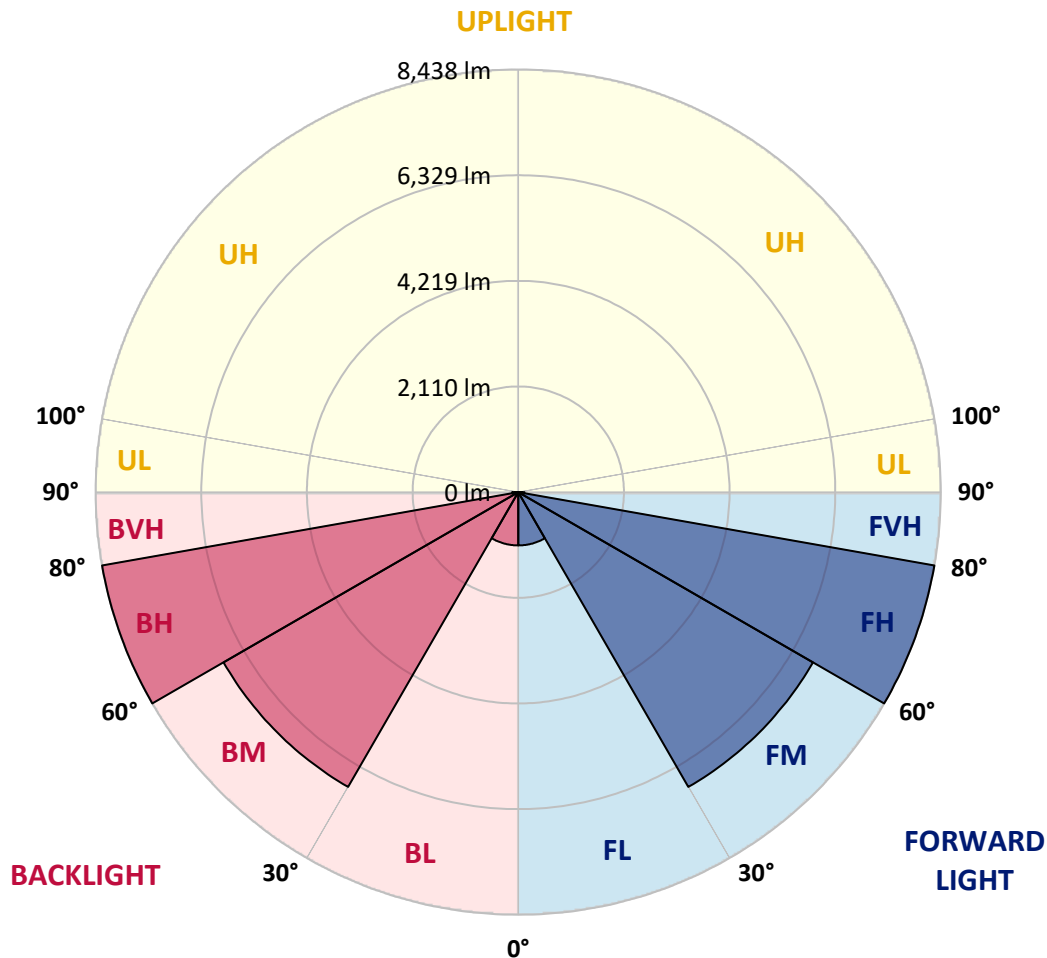
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1062.8	3.2			
FM (30°-60°)	6795.9	20.7			
FH (60°-80°)	8438.0	25.7			G4/12000
FVH (80°-90°)	122.4	0.4			G2/225
BL (0°-30°)	1062.8	3.2	B3/2500		
BM (30°-60°)	6795.9	20.7	B4/8500		
BH (60°-80°)	8438.0	25.7	B5		G4/12000
BVH (80°-90°)	122.4	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°	2510.7	2510.7	2510.7	2510.7	2510.7	2510.7	2510.7	2510.7	2510.7	2510.7	2510.7
2.5°	2481.7	2488.9	2485.3	2485.3	2496.2	2503.4	2507.1	2543.4	2528.8	2539.7	2528.8
5°	2488.9	2488.9	2496.2	2488.9	2496.2	2488.9	2496.2	2485.3	2496.2	2503.4	2514.3
7.5°	2474.4	2467.2	2456.3	2456.3	2452.6	2445.4	2434.5	2463.5	2449.0	2459.9	2478.0
10°	2478.0	2467.2	2430.9	2438.1	2405.5	2405.5	2412.7	2412.7	2445.4	2481.7	2492.6
12.5°	2478.0	2456.3	2445.4	2398.2	2398.2	2401.9	2420.0	2427.3	2449.0	2463.5	2499.8
15°	2478.0	2467.2	2449.0	2387.3	2401.9	2394.6	2412.7	2412.7	2459.9	2485.3	2503.4
17.5°	2492.6	2499.8	2467.2	2409.1	2412.7	2427.3	2416.4	2427.3	2485.3	2503.4	2528.8
20°	2496.2	2467.2	2456.3	2420.0	2452.6	2445.4	2441.8	2463.5	2481.7	2514.3	2543.4
22.5°	2488.9	2499.8	2456.3	2452.6	2481.7	2496.2	2503.4	2478.0	2499.8	2521.6	2547.0
25°	2550.6	2510.7	2499.8	2492.6	2507.1	2521.6	2514.3	2536.1	2536.1	2561.5	2594.1
27.5°	2717.5	2721.1	2699.4	2612.3	2583.3	2550.6	2565.1	2623.2	2692.1	2746.5	2757.4
30°	2793.7	2808.2	2866.3	2851.7	2840.9	2851.7	2848.1	2862.6	2869.9	2873.5	2862.6
32.5°	2862.6	2855.4	2830.0	2895.3	3109.3	3272.6	3116.6	2902.5	2855.4	2840.9	2855.4
35°	3113.0	3113.0	3058.6	2975.1	3087.6	3127.5	3054.9	2953.3	3011.4	3131.1	3138.4
37.5°	3435.9	3388.7	3410.5	3399.6	3276.2	3189.2	3316.2	3381.5	3392.3	3388.7	3425.0
40°	3628.2	3595.5	3562.9	3620.9	3733.4	3813.2	3700.7	3544.7	3584.6	3664.5	3631.8
42.5°	4067.2	3983.7	3991.0	3932.9	3929.3	3903.9	3878.5	3889.4	3947.5	4038.2	4052.7
45°	4517.1	4557.0	4531.6	4422.8	4473.5	4473.5	4401.0	4455.4	4484.4	4589.6	4604.2
47.5°	5221.0	5202.8	5213.7	5115.7	5112.1	5137.5	5112.1	5115.7	5206.4	5199.2	5159.3
50°	6044.5	6095.3	6109.9	6062.7	6004.6	5993.8	5953.8	6004.6	6059.1	6062.7	6030.0
52.5°	7183.8	7238.2	7238.2	7252.7	7325.3	7289.0	7281.8	7285.4	7180.2	7107.6	7143.9
55°	8620.6	8638.7	8700.4	8827.4	9048.7	9077.7	8939.8	8878.2	8685.9	8569.8	8660.5
57.5°	10039.2	10111.7	10282.3	10612.4	10884.5	11182.0	10782.9	10376.6	9999.3	9814.2	9846.9
60°	11218.3	11323.5	11650.1	12110.9	12865.5	13137.6	12462.8	11766.2	11000.6	10434.6	10663.2
62.5°	11773.4	11936.7	12212.5	13144.9	14276.9	14668.7	13678.2	12412.0	11251.0	10706.8	10695.9
64°	11777.1	11802.5	12354.0	13359.0	14523.6	15281.9	13972.1	12412.0	11312.7	10641.5	10764.8
65°	11534.0	11639.2	12172.5	13163.0	14367.6	15332.7	13870.5	12241.5	11058.7	10536.2	10594.3
67.5°	10431.0	10427.4	10920.8	11904.1	13576.6	14755.8	13007.0	11287.3	10431.0	9865.0	9934.0
70°	7913.1	8040.0	8511.7	9719.9	11748.0	13010.7	11374.3	9592.9	8526.2	8072.7	8047.3
72.5°	4734.8	4901.7	5503.9	6977.0	9124.9	10659.6	9026.9	7096.7	5812.3	5094.0	5112.1
75°	2158.8	2282.1	2695.7	3896.7	6080.8	7793.3	6117.1	4103.5	2942.5	2485.3	2420.0
77.5°	605.9	682.1	910.7	1788.7	3337.9	4673.1	3432.3	1977.4	1284.4	1066.7	1044.9
80°	272.1	286.6	322.9	435.4	1059.4	2060.8	1418.6	725.6	482.5	399.1	381.0
82.5°	148.8	159.6	210.4	224.9	301.1	547.9	468.0	341.0	290.3	232.2	224.9
85°	83.4	87.1	119.7	119.7	145.1	159.6	170.5	181.4	177.8	130.6	127.0
87.5°	25.4	29.0	36.3	36.3	36.3	36.3	58.1	79.8	87.1	61.7	61.7
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)