

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: P479739

Luminaire Tested: **IFLD-M-SA4D-740-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479739
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-740-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

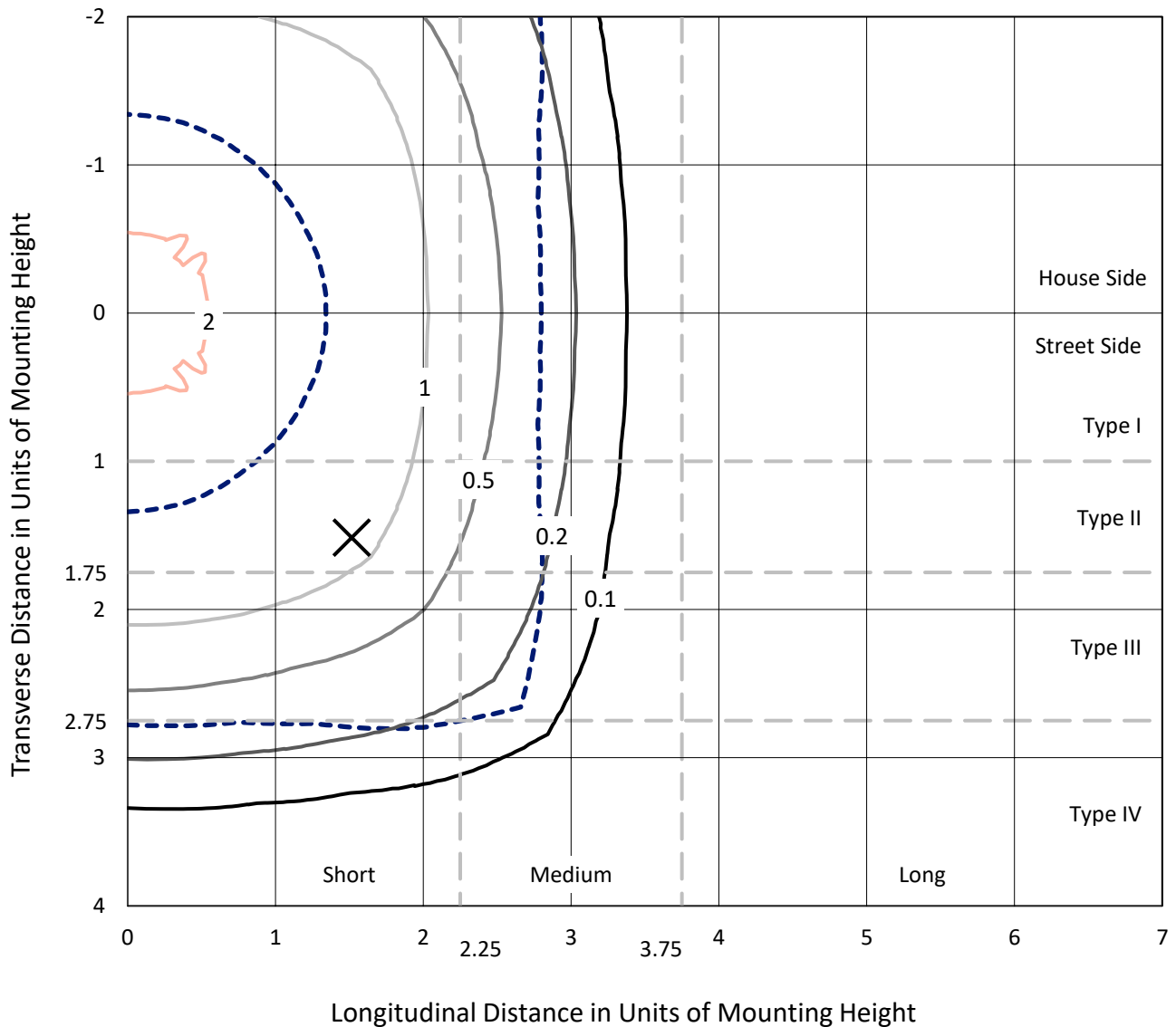
Lumens per Lamp: N/A
Luminaire Lumens: 32103.3 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

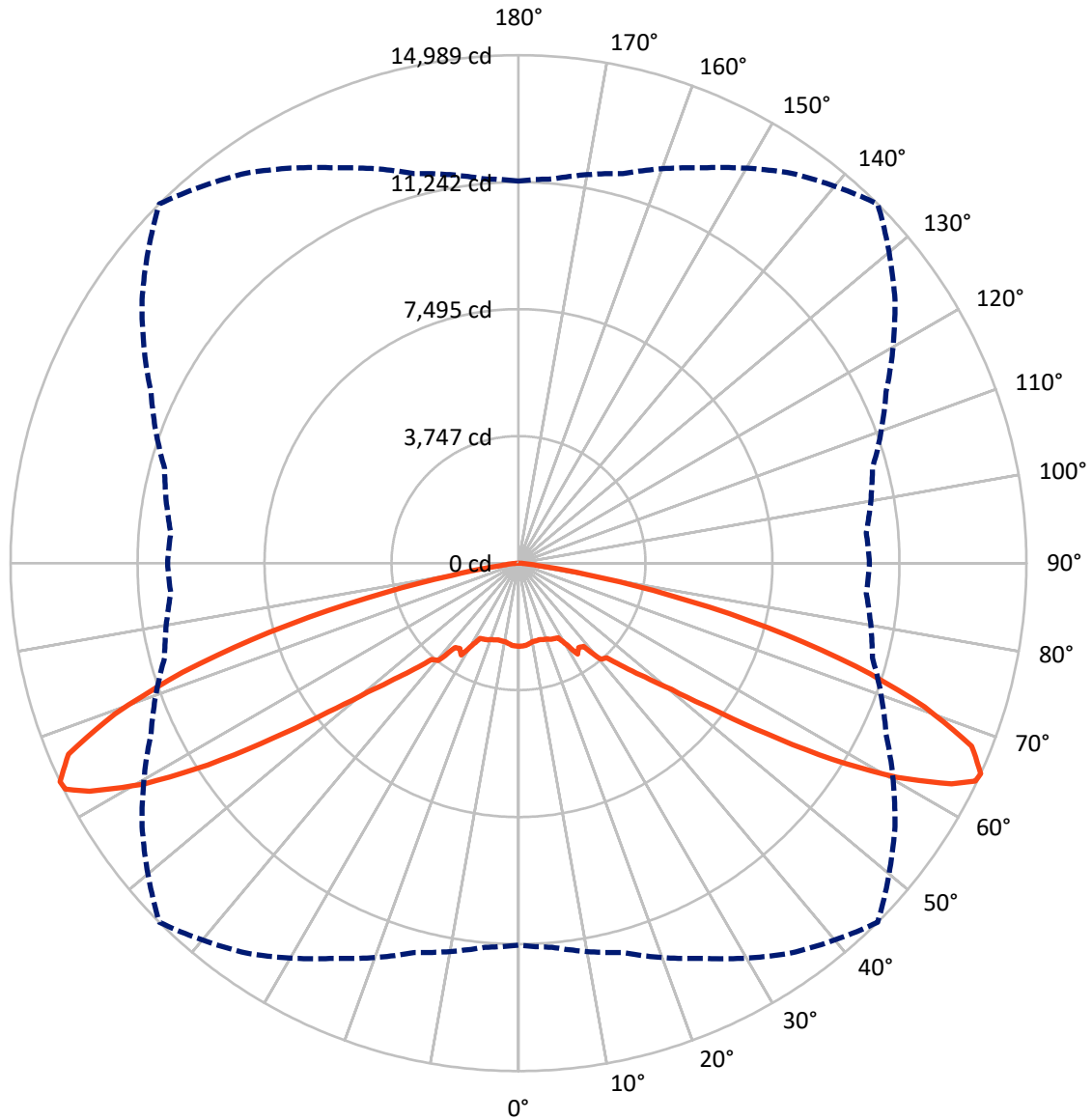
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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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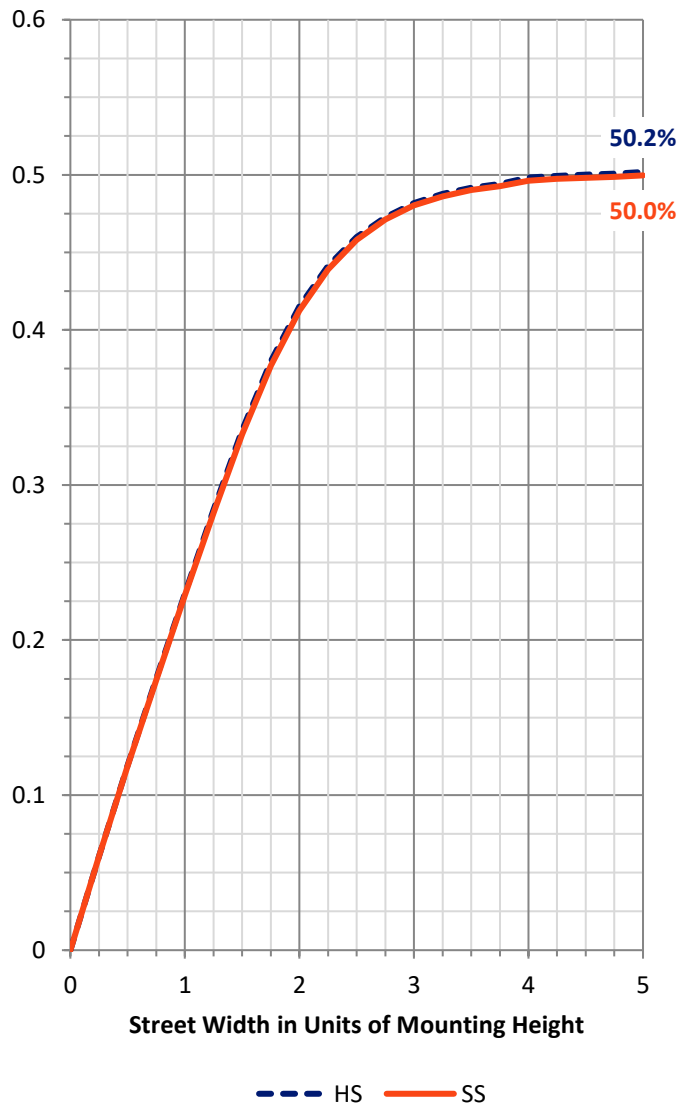
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16051.6	0.0	16051.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16051.6	0.0	16051.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	32103.3	0.0	32103.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	230.3	0.7
10°-20°	676.6	2.1
20°-30°	1171.2	3.6
30°-40°	1947.4	6.1
40°-50°	3513.4	10.9
50°-60°	7826.7	24.4
60°-70°	11664.3	36.3
70°-80°	4833.8	15.1
80°-90°	239.4	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°	32103.3	100.0
0°-180°	32103.3	100.0

Coefficient of Utilization



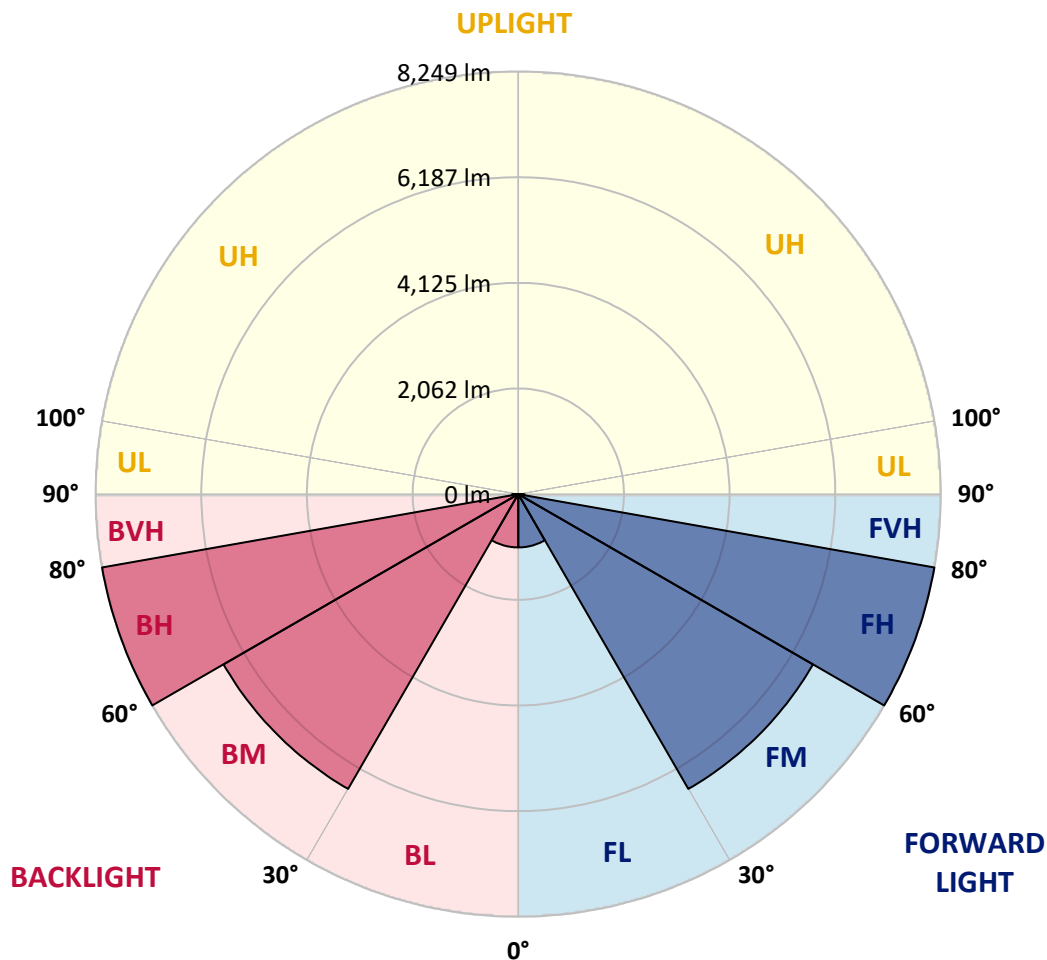
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1039.1	3.2			
FM (30°-60°)	6643.8	20.7			
FH (60°-80°)	8249.1	25.7			G4/12000
FVH (80°-90°)	119.7	0.4			G2/225
BL (0°-30°)	1039.1	3.2	B3/2500		
BM (30°-60°)	6643.8	20.7	B4/8500		
BH (60°-80°)	8249.1	25.7	B5		G4/12000
BVH (80°-90°)	119.7	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°	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5	2454.5
2.5°	2426.1	2433.2	2429.7	2429.7	2440.3	2447.4	2450.9	2486.4	2472.2	2482.9	2472.2
5°	2433.2	2433.2	2440.3	2433.2	2440.3	2433.2	2440.3	2429.7	2440.3	2447.4	2458.0
7.5°	2419.0	2411.9	2401.3	2401.3	2397.7	2390.6	2380.0	2408.4	2394.2	2404.8	2422.6
10°	2422.6	2411.9	2376.5	2383.6	2351.6	2351.6	2358.7	2358.7	2390.6	2426.1	2436.8
12.5°	2422.6	2401.3	2390.6	2344.5	2344.5	2348.1	2365.8	2372.9	2394.2	2408.4	2443.9
15°	2422.6	2411.9	2394.2	2333.9	2348.1	2341.0	2358.7	2358.7	2404.8	2429.7	2447.4
17.5°	2436.8	2443.9	2411.9	2355.2	2358.7	2372.9	2362.3	2372.9	2429.7	2447.4	2472.2
20°	2440.3	2411.9	2401.3	2365.8	2397.7	2390.6	2387.1	2408.4	2426.1	2458.0	2486.4
22.5°	2433.2	2443.9	2401.3	2397.7	2426.1	2440.3	2447.4	2422.6	2443.9	2465.1	2490.0
25°	2493.5	2454.5	2443.9	2436.8	2450.9	2465.1	2458.0	2479.3	2479.3	2504.1	2536.1
27.5°	2656.7	2660.2	2638.9	2553.8	2525.4	2493.5	2507.7	2564.4	2631.8	2685.0	2695.7
30°	2731.2	2745.3	2802.1	2787.9	2777.3	2787.9	2784.4	2798.5	2805.6	2809.2	2798.5
32.5°	2798.5	2791.5	2766.6	2830.5	3039.7	3199.4	3046.8	2837.6	2791.5	2777.3	2791.5
35°	3043.3	3043.3	2990.1	2908.5	3018.5	3057.5	2986.5	2887.2	2944.0	3061.0	3068.1
37.5°	3359.0	3312.9	3334.1	3323.5	3202.9	3117.8	3241.9	3305.8	3316.4	3312.9	3348.3
40°	3547.0	3515.0	3483.1	3539.9	3649.8	3727.8	3617.9	3465.4	3504.4	3582.4	3550.5
42.5°	3976.1	3894.6	3901.6	3844.9	3841.4	3816.5	3791.7	3802.3	3859.1	3947.8	3961.9
45°	4416.0	4455.0	4430.1	4323.7	4373.4	4373.4	4302.5	4355.7	4384.0	4486.9	4501.1
47.5°	5104.1	5086.3	5097.0	5001.2	4997.7	5022.5	4997.7	5001.2	5089.9	5082.8	5043.8
50°	5909.2	5958.9	5973.1	5927.0	5870.2	5859.6	5820.6	5870.2	5923.4	5927.0	5895.0
52.5°	7023.0	7076.2	7076.2	7090.4	7161.3	7125.8	7118.7	7122.3	7019.4	6948.5	6984.0
55°	8427.6	8445.3	8505.6	8629.7	8846.1	8874.5	8739.7	8679.4	8491.4	8377.9	8466.6
57.5°	9814.4	9885.4	10052.1	10374.8	10640.9	10931.7	10541.5	10144.3	9775.4	9594.5	9626.4
60°	10967.2	11070.0	11389.3	11839.7	12577.5	12843.5	12183.8	11502.8	10754.4	10201.0	10424.5
62.5°	11509.9	11669.5	11939.0	12850.6	13957.3	14340.3	13372.0	12134.1	10999.1	10467.1	10456.4
64°	11513.4	11538.2	12077.4	13059.9	14198.5	14939.8	13659.3	12134.1	11059.4	10403.2	10523.8
65°	11275.8	11378.6	11900.0	12868.4	14045.9	14989.4	13560.0	11967.4	10811.1	10300.4	10357.1
67.5°	10197.5	10193.9	10676.3	11637.6	13272.7	14425.5	12715.8	11034.6	10197.5	9644.2	9711.6
70°	7735.9	7860.1	8321.2	9502.3	11485.0	12719.4	11119.7	9378.1	8335.3	7892.0	7867.1
72.5°	4628.8	4791.9	5380.7	6820.8	8920.6	10421.0	8824.8	6937.8	5682.2	4979.9	4997.7
75°	2110.4	2231.0	2635.4	3809.4	5944.7	7618.9	5980.2	4011.6	2876.6	2429.7	2365.8
77.5°	592.3	666.8	890.3	1748.6	3263.2	4568.5	3355.4	1933.1	1255.6	1042.8	1021.5
80°	266.0	280.2	315.7	425.6	1035.7	2014.7	1386.9	709.4	471.7	390.2	372.4
82.5°	145.4	156.1	205.7	219.9	294.4	535.6	457.6	333.4	283.8	227.0	219.9
85°	81.6	85.1	117.0	117.0	141.9	156.1	166.7	177.3	173.8	127.7	124.1
87.5°	24.8	28.4	35.5	35.5	35.5	35.5	56.8	78.0	85.1	60.3	60.3
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)