

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: P479740

Luminaire Tested: **IFLD-M-SA4E-740-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479740
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-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

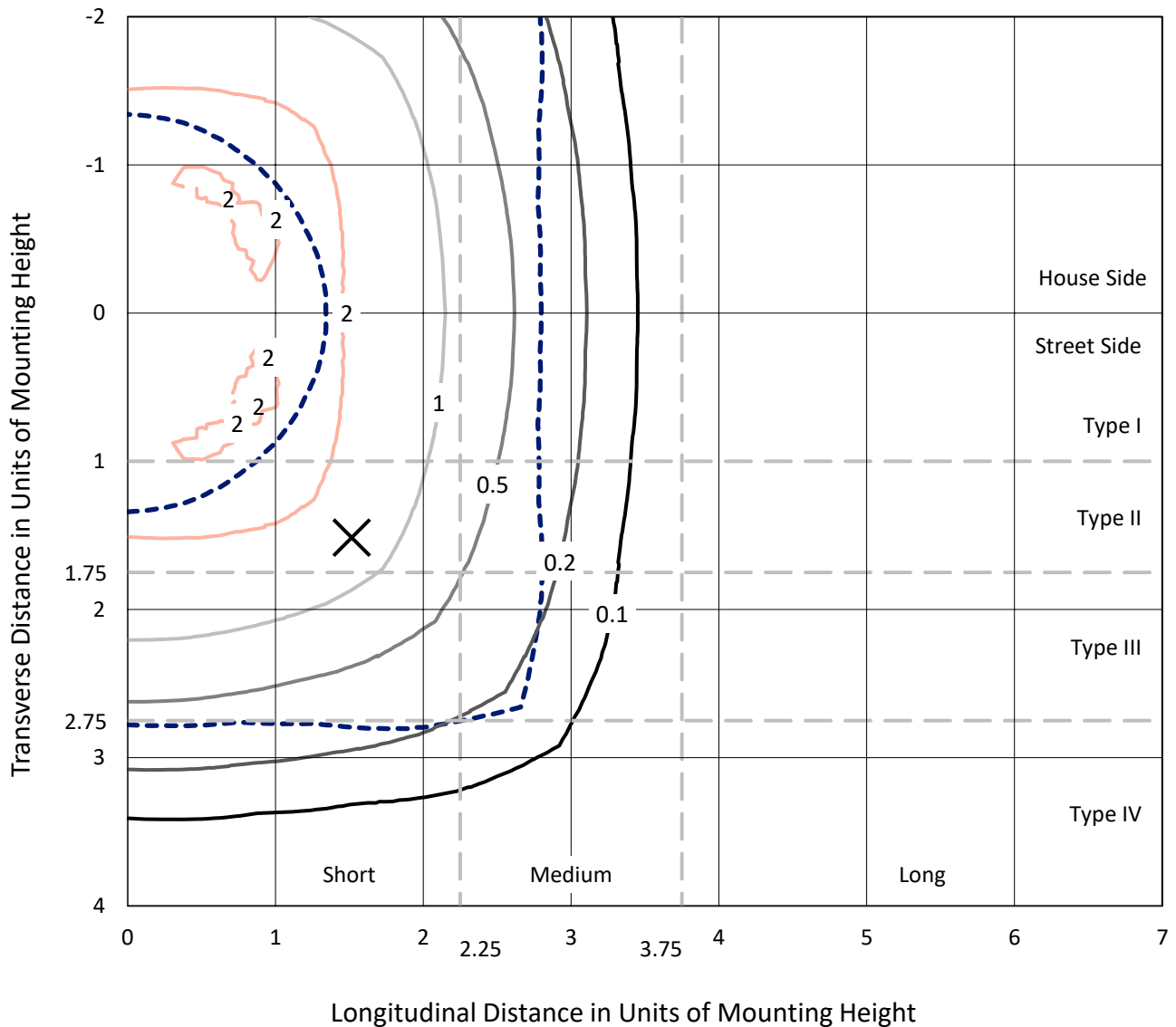
Lumens per Lamp: N/A
Luminaire Lumens: 37152.8 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

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

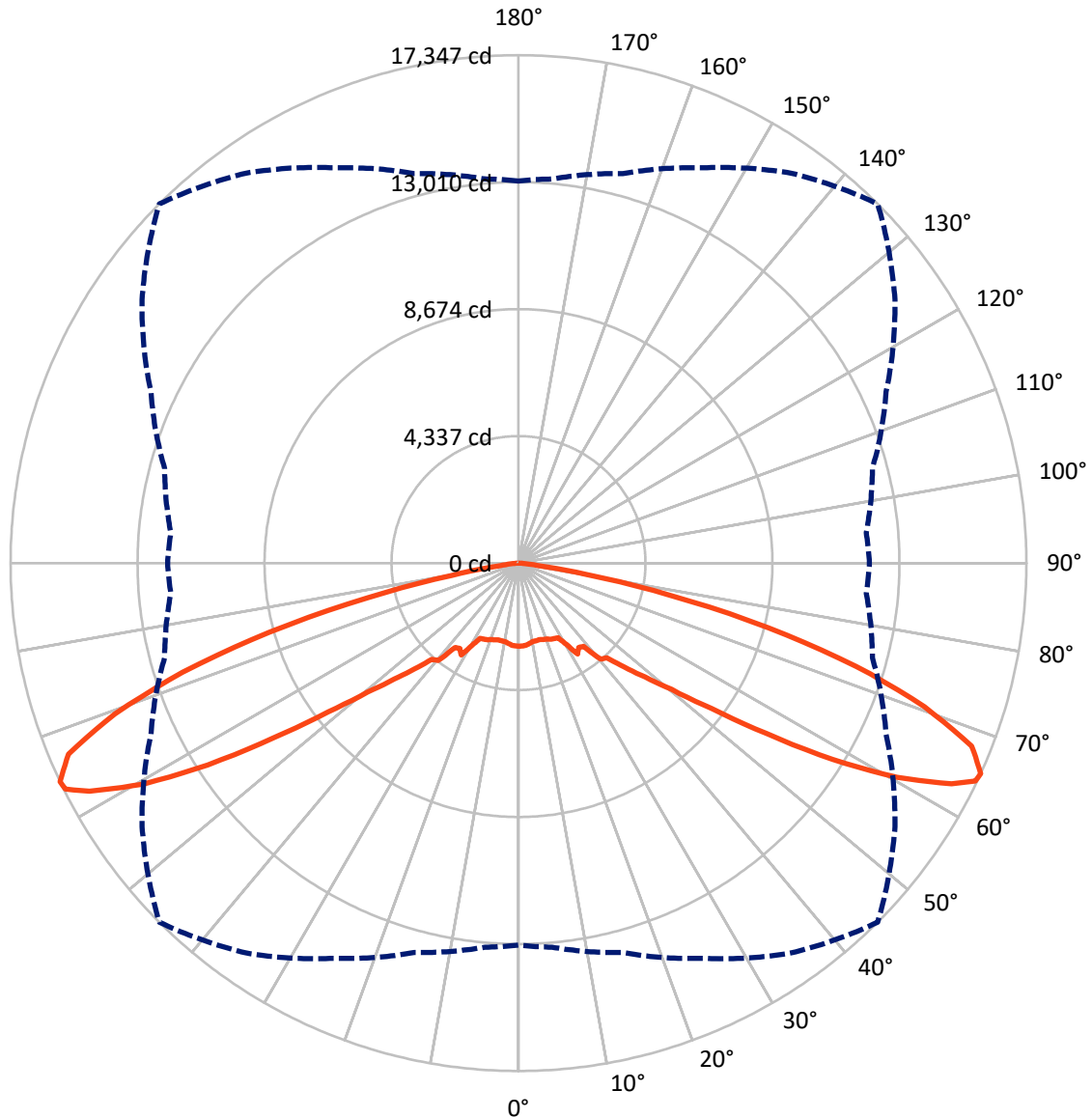
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.2 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	18576.4	0.0	18576.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18576.4	0.0	18576.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	37152.8	0.0	37152.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.6	0.7
10°-20°	783.0	2.1
20°-30°	1355.4	3.6
30°-40°	2253.7	6.1
40°-50°	4066.0	10.9
50°-60°	9057.8	24.4
60°-70°	13499.0	36.3
70°-80°	5594.2	15.1
80°-90°	277.1	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°	37152.8	100.0
0°-180°	37152.8	100.0

Coefficient of Utilization



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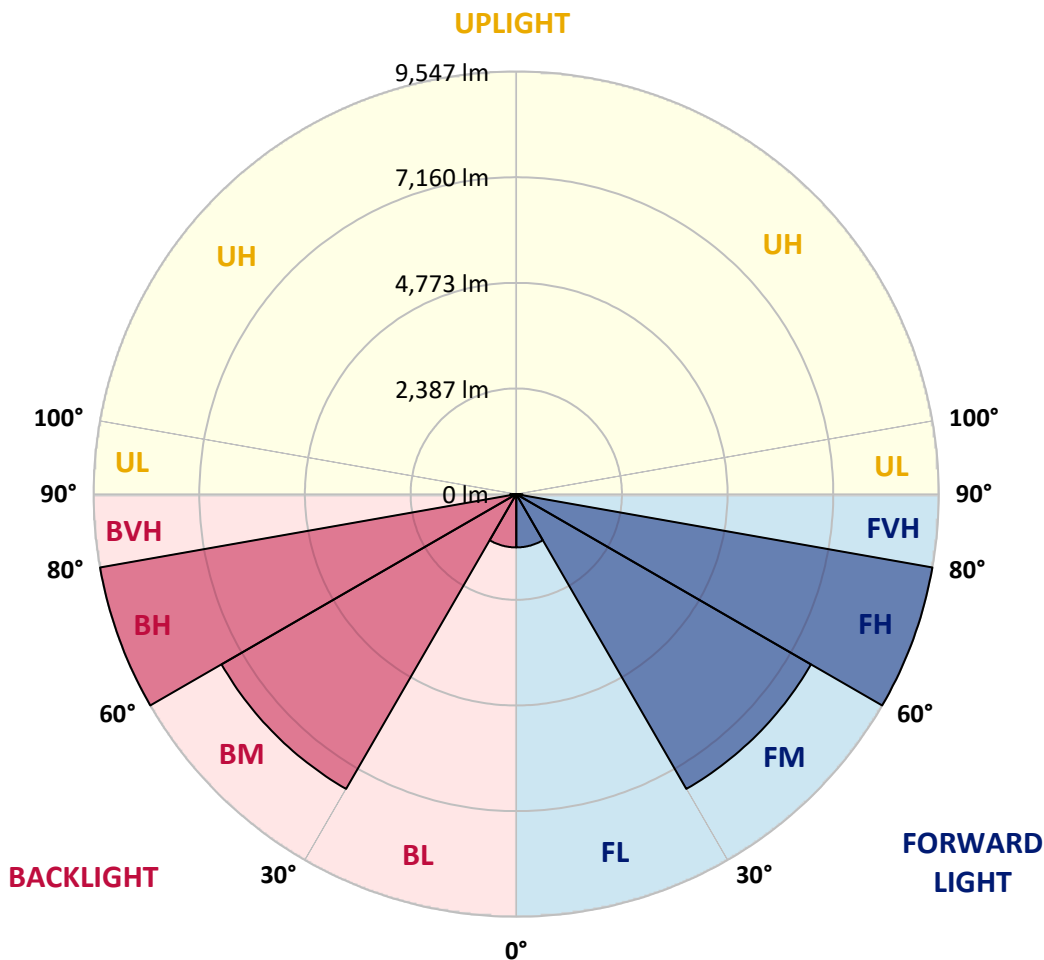
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.5	3.2			
FM (30°-60°)	7688.8	20.7			
FH (60°-80°)	9546.6	25.7			G4/12000
FVH (80°-90°)	138.5	0.4			G2/225
BL (0°-30°)	1202.5	3.2	B3/2500		
BM (30°-60°)	7688.8	20.7	B4/8500		
BH (60°-80°)	9546.6	25.7	B5		G4/12000
BVH (80°-90°)	138.5	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°	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6	2840.6
2.5°	2807.7	2815.9	2811.8	2811.8	2824.1	2832.4	2836.5	2877.5	2861.1	2873.4	2861.1
5°	2815.9	2815.9	2824.1	2815.9	2824.1	2815.9	2824.1	2811.8	2824.1	2832.4	2844.7
7.5°	2799.5	2791.3	2779.0	2779.0	2774.9	2766.7	2754.4	2787.2	2770.8	2783.1	2803.6
10°	2803.6	2791.3	2750.3	2758.5	2721.5	2721.5	2729.7	2729.7	2766.7	2807.7	2820.0
12.5°	2803.6	2779.0	2766.7	2713.3	2713.3	2717.4	2737.9	2746.1	2770.8	2787.2	2828.2
15°	2803.6	2791.3	2770.8	2701.0	2717.4	2709.2	2729.7	2729.7	2783.1	2811.8	2832.4
17.5°	2820.0	2828.2	2791.3	2725.6	2729.7	2746.1	2733.8	2746.1	2811.8	2832.4	2861.1
20°	2824.1	2791.3	2779.0	2737.9	2774.9	2766.7	2762.6	2787.2	2807.7	2844.7	2877.5
22.5°	2815.9	2828.2	2779.0	2774.9	2807.7	2824.1	2832.4	2803.6	2828.2	2852.9	2881.6
25°	2885.7	2840.6	2828.2	2820.0	2836.5	2852.9	2844.7	2869.3	2869.3	2898.0	2935.0
27.5°	3074.5	3078.6	3054.0	2955.5	2922.7	2885.7	2902.1	2967.8	3045.8	3107.4	3119.7
30°	3160.7	3177.2	3242.8	3226.4	3214.1	3226.4	3222.3	3238.7	3246.9	3251.0	3238.7
32.5°	3238.7	3230.5	3201.8	3275.7	3517.9	3702.6	3526.1	3283.9	3230.5	3214.1	3230.5
35°	3522.0	3522.0	3460.4	3366.0	3493.2	3538.4	3456.3	3341.4	3407.0	3542.5	3550.7
37.5°	3887.3	3833.9	3858.6	3846.3	3706.7	3608.2	3751.8	3825.7	3838.0	3833.9	3875.0
40°	4104.9	4067.9	4031.0	4096.6	4223.9	4314.2	4187.0	4010.4	4055.6	4145.9	4109.0
42.5°	4601.5	4507.1	4515.3	4449.7	4445.6	4416.8	4388.1	4400.4	4466.1	4568.7	4585.1
45°	5110.5	5155.7	5127.0	5003.8	5061.3	5061.3	4979.2	5040.8	5073.6	5192.6	5209.1
47.5°	5906.9	5886.4	5898.7	5787.8	5783.7	5812.5	5783.7	5787.8	5890.5	5882.3	5837.1
50°	6838.7	6896.2	6912.6	6859.2	6793.5	6781.2	6736.1	6793.5	6855.1	6859.2	6822.3
52.5°	8127.6	8189.2	8189.2	8205.6	8287.7	8246.7	8238.4	8242.6	8123.5	8041.4	8082.5
55°	9753.1	9773.7	9843.4	9987.1	10237.5	10270.4	10114.4	10044.6	9827.0	9695.7	9798.3
57.5°	11358.1	11440.2	11633.2	12006.7	12314.6	12651.2	12199.6	11739.9	11313.0	11103.6	11140.6
60°	12692.2	12811.3	13180.7	13702.0	14555.8	14863.7	14100.2	13312.0	12445.9	11805.6	12064.2
62.5°	13320.3	13505.0	13816.9	14871.9	16152.6	16595.9	15475.3	14042.7	12729.2	12113.4	12101.1
64°	13324.4	13353.1	13977.0	15114.1	16431.7	17289.7	15807.8	14042.7	12798.9	12039.5	12179.1
65°	13049.3	13168.4	13771.8	14892.4	16255.2	17347.1	15692.9	13849.8	12511.6	11920.5	11986.2
67.5°	11801.5	11797.4	12355.6	13468.0	15360.4	16694.4	14715.9	12770.2	11801.5	11161.1	11239.1
70°	8952.7	9096.4	9630.0	10996.9	13291.5	14720.0	12868.7	10853.2	9646.4	9133.3	9104.6
72.5°	5356.8	5545.7	6227.1	7893.6	10323.7	12060.1	10212.9	8029.1	6576.0	5763.2	5783.7
75°	2442.4	2582.0	3049.9	4408.6	6879.7	8817.2	6920.8	4642.6	3329.0	2811.8	2737.9
77.5°	685.5	771.7	1030.3	2023.7	3776.5	5287.1	3883.2	2237.1	1453.1	1206.8	1182.2
80°	307.9	324.3	365.3	492.6	1198.6	2331.6	1605.0	821.0	545.9	451.5	431.0
82.5°	168.3	180.6	238.1	254.5	340.7	619.8	529.5	385.9	328.4	262.7	254.5
85°	94.4	98.5	135.5	135.5	164.2	180.6	192.9	205.2	201.1	147.8	143.7
87.5°	28.7	32.8	41.0	41.0	41.0	41.0	65.7	90.3	98.5	69.8	69.8
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)