

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: P479779

Luminaire Tested: **IFLD-M-SA4E-750-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479779  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4E-750-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (64) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

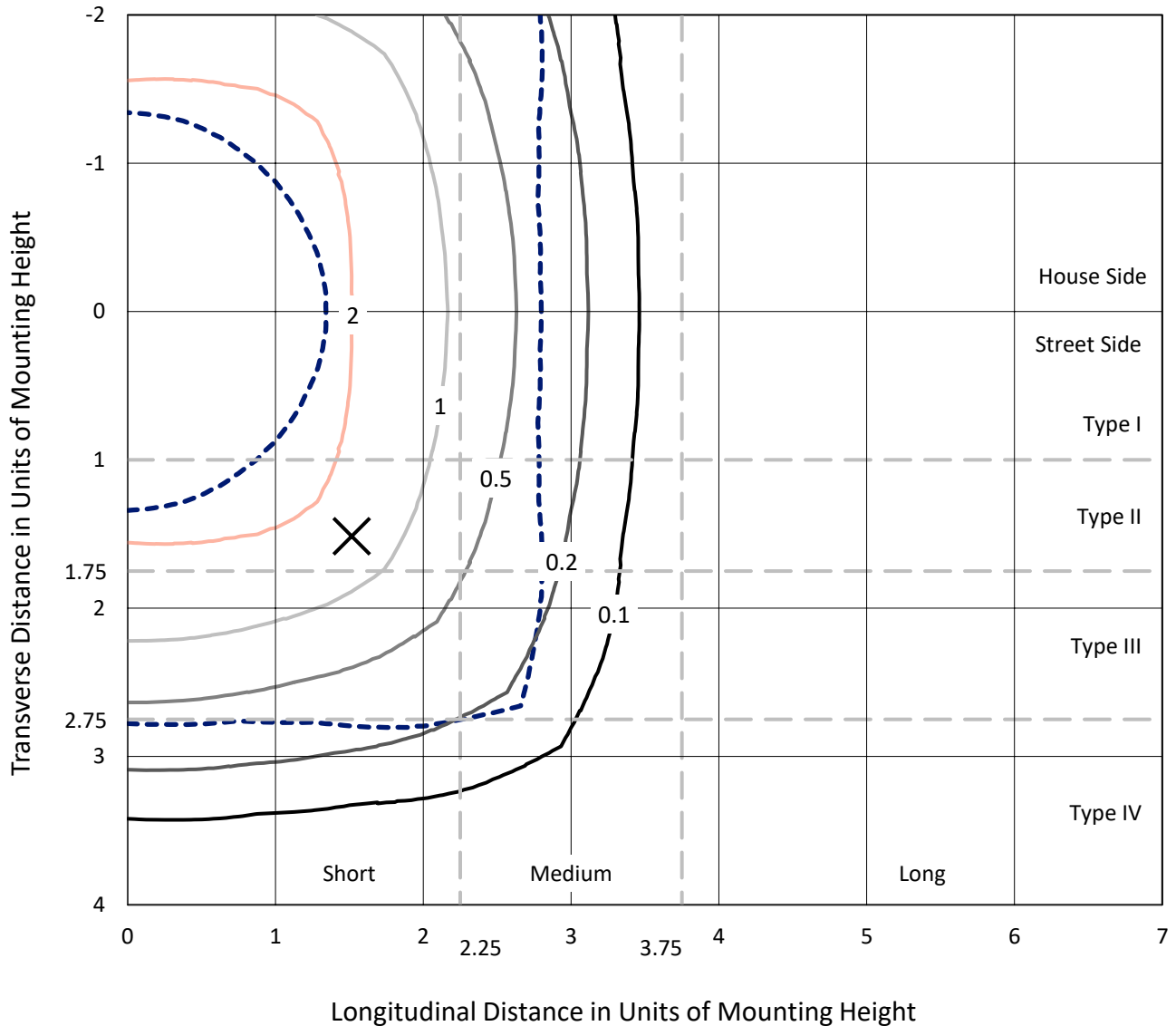
Lumens per Lamp: N/A  
Luminaire Lumens: 38003.6 lumens  
Efficiency: N/A  
Efficacy: 120.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

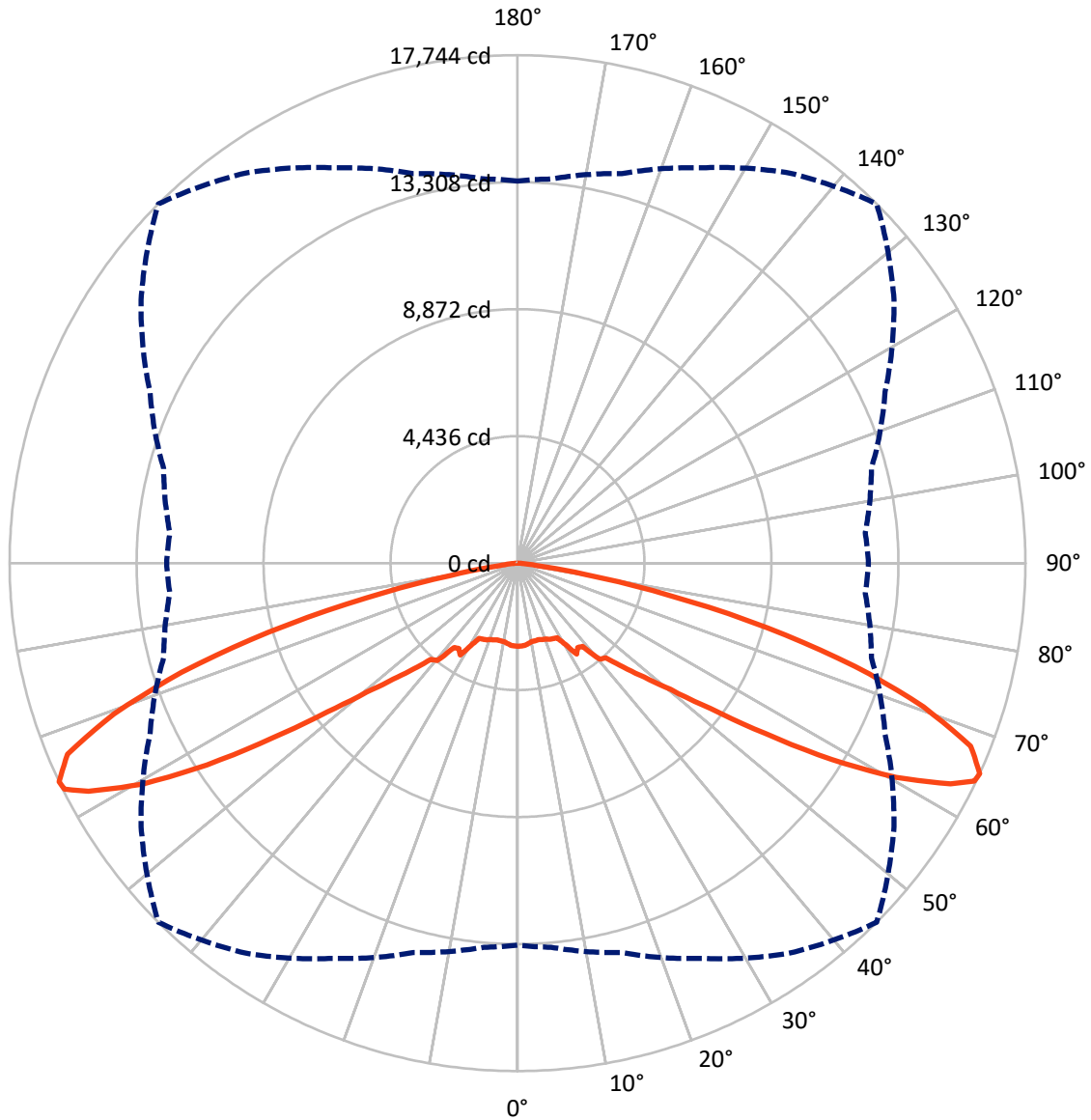
× Max cd  
 - - - 1/2 Max cd



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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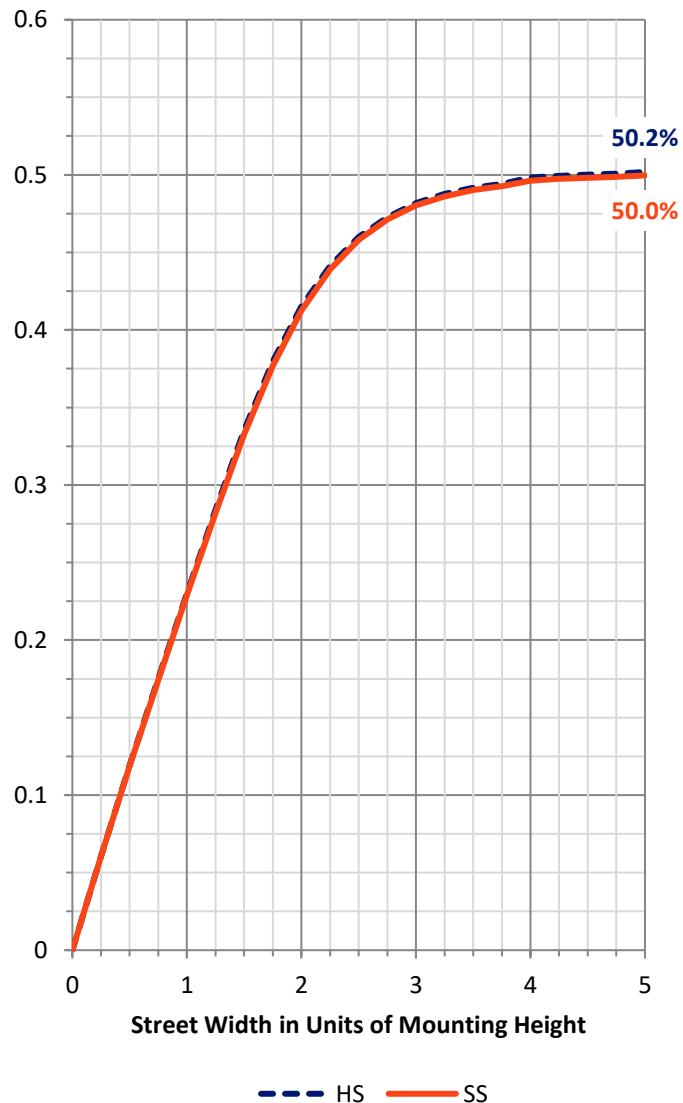
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	19001.8	0.0	19001.8
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	19001.8	0.0	19001.8
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	38003.6	0.0	38003.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	272.7	0.7
10°-20°	801.0	2.1
20°-30°	1386.4	3.6
30°-40°	2305.3	6.1
40°-50°	4159.2	10.9
50°-60°	9265.2	24.4
60°-70°	13808.2	36.3
70°-80°	5722.3	15.1
80°-90°	283.4	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°	38003.6	100.0
0°-180°	38003.6	100.0

**Coefficient of Utilization**



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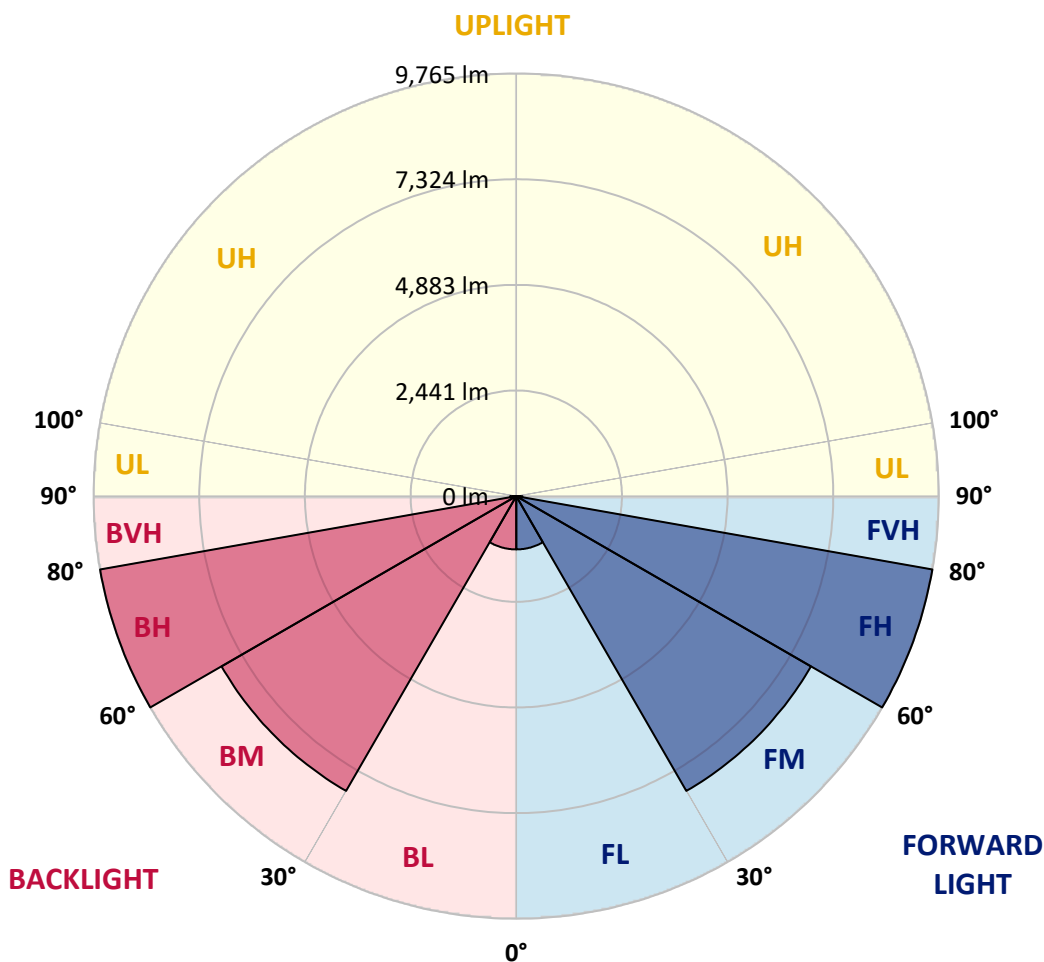
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1230.0	3.2			
FM (30°-60°)	7864.9	20.7			
FH (60°-80°)	9765.2	25.7			G4/12000
FVH (80°-90°)	141.7	0.4			G2/225
BL (0°-30°)	1230.0	3.2	B3/2500		
BM (30°-60°)	7864.9	20.7	B4/8500		
BH (60°-80°)	9765.2	25.7	B5		G4/12000
BVH (80°-90°)	141.7	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°	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6	2905.6
2.5°	2872.0	2880.4	2876.2	2876.2	2888.8	2897.2	2901.4	2943.4	2926.6	2939.2	2926.6
5°	2880.4	2880.4	2888.8	2880.4	2888.8	2880.4	2888.8	2876.2	2888.8	2897.2	2909.8
7.5°	2863.6	2855.2	2842.6	2842.6	2838.4	2830.0	2817.4	2851.0	2834.2	2846.8	2867.8
10°	2867.8	2855.2	2813.2	2821.6	2783.8	2783.8	2792.2	2792.2	2830.0	2872.0	2884.6
12.5°	2867.8	2842.6	2830.0	2775.4	2775.4	2779.6	2800.6	2809.0	2834.2	2851.0	2893.0
15°	2867.8	2855.2	2834.2	2762.8	2779.6	2771.2	2792.2	2792.2	2846.8	2876.2	2897.2
17.5°	2884.6	2893.0	2855.2	2788.0	2792.2	2809.0	2796.4	2809.0	2876.2	2897.2	2926.6
20°	2888.8	2855.2	2842.6	2800.6	2838.4	2830.0	2825.8	2851.0	2872.0	2909.8	2943.4
22.5°	2880.4	2893.0	2842.6	2838.4	2872.0	2888.8	2897.2	2867.8	2893.0	2918.2	2947.6
25°	2951.8	2905.6	2893.0	2884.6	2901.4	2918.2	2909.8	2935.0	2935.0	2964.4	3002.2
27.5°	3144.9	3149.1	3123.9	3023.2	2989.6	2951.8	2968.6	3035.8	3115.6	3178.5	3191.1
30°	3233.1	3249.9	3317.1	3300.3	3287.7	3300.3	3296.1	3312.9	3321.3	3325.5	3312.9
32.5°	3312.9	3304.5	3275.1	3350.7	3598.4	3787.4	3606.8	3359.1	3304.5	3287.7	3304.5
35°	3602.6	3602.6	3539.6	3443.1	3573.2	3619.4	3535.4	3417.9	3485.1	3623.6	3632.0
37.5°	3976.3	3921.7	3946.9	3934.3	3791.6	3690.8	3837.8	3913.3	3925.9	3921.7	3963.7
40°	4198.9	4161.1	4123.3	4190.5	4320.6	4413.0	4282.8	4102.3	4148.5	4240.8	4203.1
42.5°	4706.9	4610.3	4618.7	4551.6	4547.4	4518.0	4488.6	4501.2	4568.4	4673.3	4690.1
45°	5227.6	5273.8	5244.4	5118.4	5177.2	5177.2	5093.2	5156.2	5189.8	5311.6	5328.3
47.5°	6042.2	6021.2	6033.8	5920.4	5916.2	5945.6	5916.2	5920.4	6025.4	6017.0	5970.8
50°	6995.3	7054.1	7070.9	7016.3	6949.1	6936.5	6890.3	6949.1	7012.1	7016.3	6978.5
52.5°	8313.7	8376.7	8376.7	8393.5	8477.5	8435.5	8427.1	8431.3	8309.5	8225.6	8267.6
55°	9976.5	9997.5	10068.9	10215.8	10472.0	10505.5	10346.0	10274.6	10052.1	9917.7	10022.7
57.5°	11618.2	11702.2	11899.6	12281.7	12596.6	12940.9	12479.0	12008.7	11572.1	11357.9	11395.7
60°	12982.9	13104.6	13482.5	14015.8	14889.1	15204.1	14423.1	13616.9	12730.9	12075.9	12340.4
62.5°	13625.3	13814.2	14133.4	15212.5	16522.5	16976.0	15829.7	14364.3	13020.7	12390.8	12378.2
64°	13629.5	13658.9	14297.1	15460.2	16808.0	17685.6	16169.8	14364.3	13092.0	12315.2	12458.0
65°	13348.2	13469.9	14087.2	15233.5	16627.5	17744.4	16052.2	14166.9	12798.1	12193.5	12260.7
67.5°	12071.7	12067.5	12638.6	13776.5	15712.1	17076.8	15052.9	13062.6	12071.7	11416.7	11496.5
70°	9157.7	9304.7	9850.5	11248.7	13595.9	15057.1	13163.4	11101.8	9867.3	9342.5	9313.1
72.5°	5479.5	5672.7	6369.7	8074.4	10560.1	12336.2	10446.8	8213.0	6726.6	5895.2	5916.2
75°	2498.3	2641.1	3119.8	4509.6	7037.3	9019.1	7079.3	4748.9	3405.3	2876.2	2800.6
77.5°	701.2	789.4	1053.9	2070.0	3862.9	5408.1	3972.1	2288.4	1486.4	1234.5	1209.3
80°	314.9	331.7	373.7	503.9	1226.1	2385.0	1641.8	839.8	558.4	461.9	440.9
82.5°	172.2	184.7	243.5	260.3	348.5	634.0	541.7	394.7	335.9	268.7	260.3
85°	96.6	100.8	138.6	138.6	168.0	184.7	197.3	209.9	205.7	151.2	147.0
87.5°	29.4	33.6	42.0	42.0	42.0	42.0	67.2	92.4	100.8	71.4	71.4
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)