

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: P479662

Luminaire Tested: **IFLD-M-SA4E-730-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479662
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

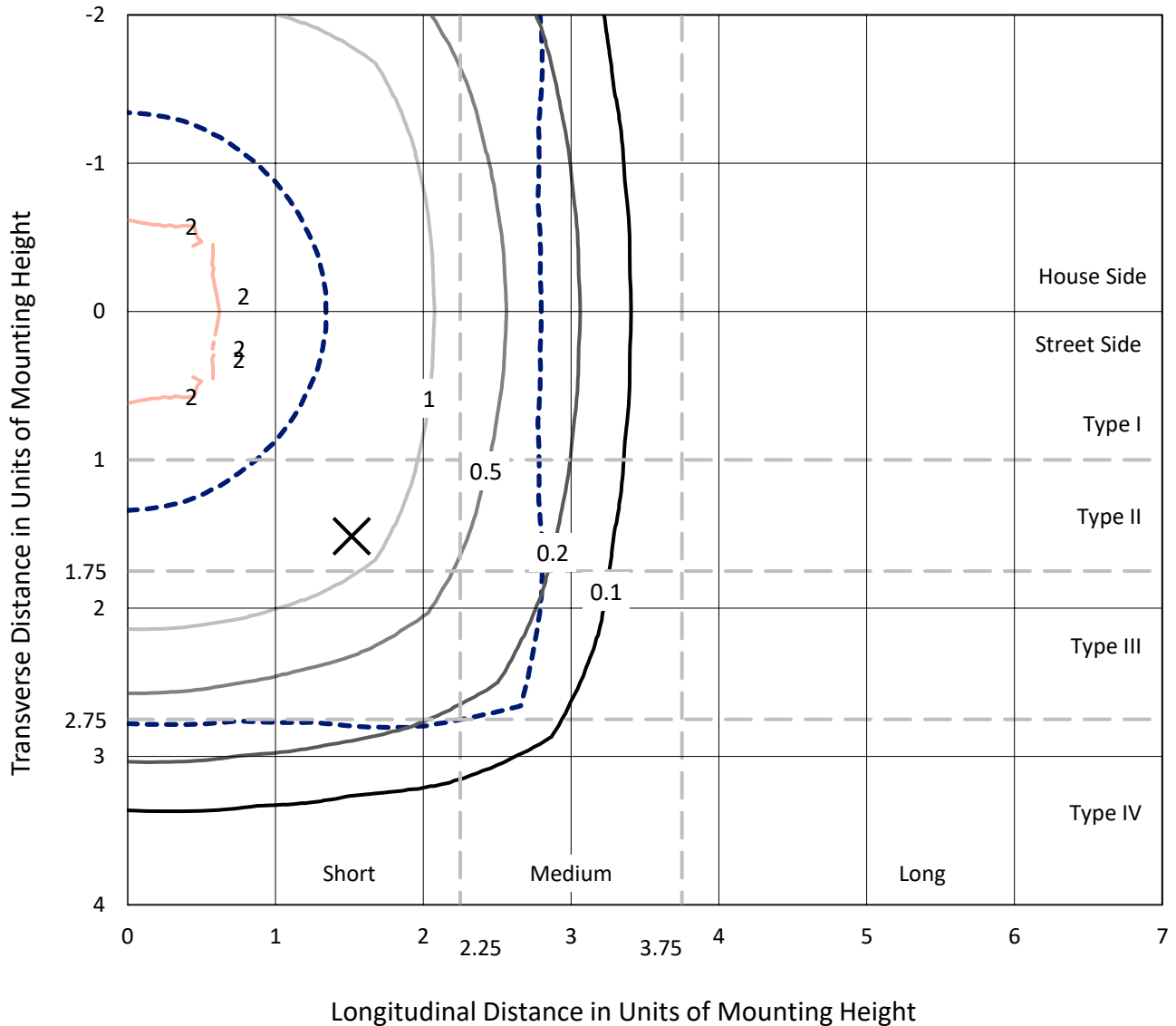
Lumens per Lamp: N/A
Luminaire Lumens: 33831.4 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 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

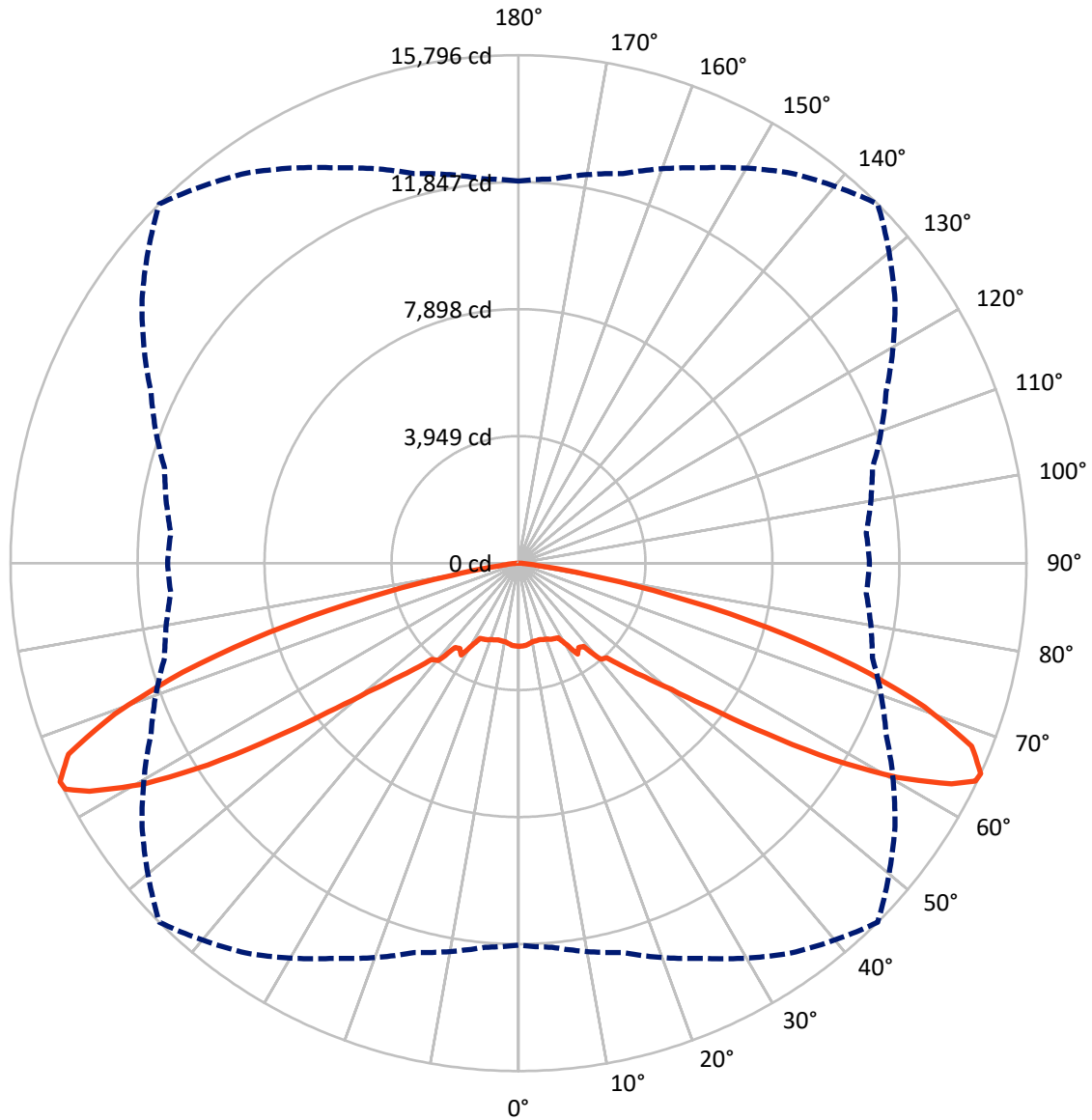
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 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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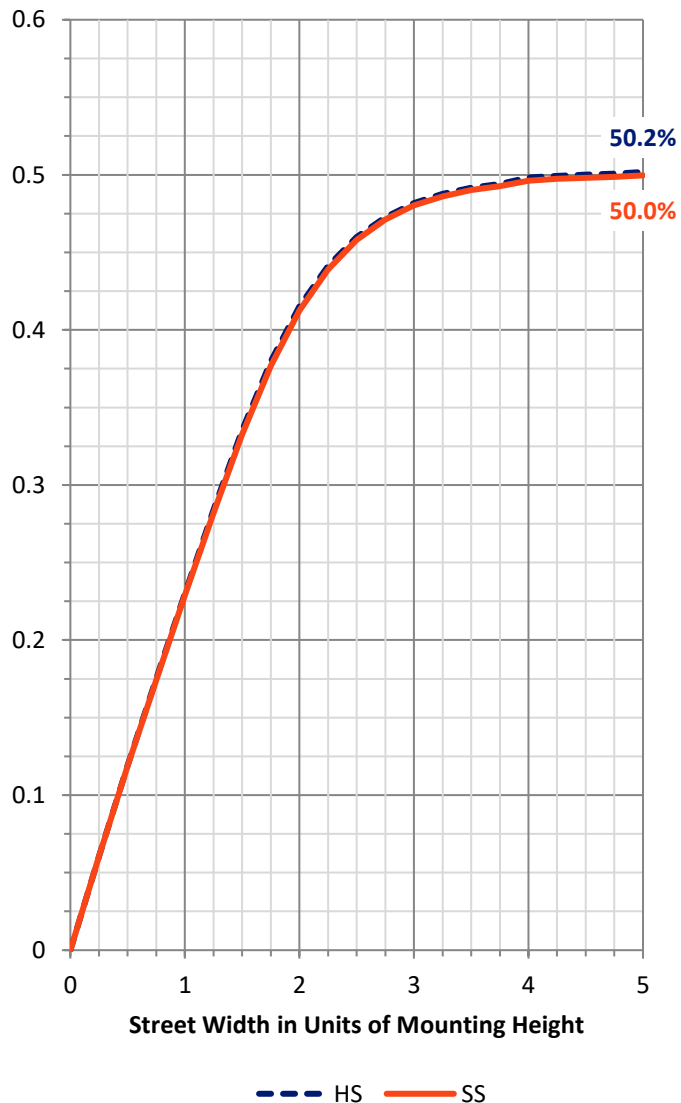
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16915.7	0.0	16915.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16915.7	0.0	16915.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	33831.4	0.0	33831.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	0.7
10°-20°	713.0	2.1
20°-30°	1234.2	3.6
30°-40°	2052.2	6.1
40°-50°	3702.5	10.9
50°-60°	8248.0	24.4
60°-70°	12292.2	36.3
70°-80°	5094.0	15.1
80°-90°	252.3	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°	33831.4	100.0
0°-180°	33831.4	100.0

Coefficient of Utilization



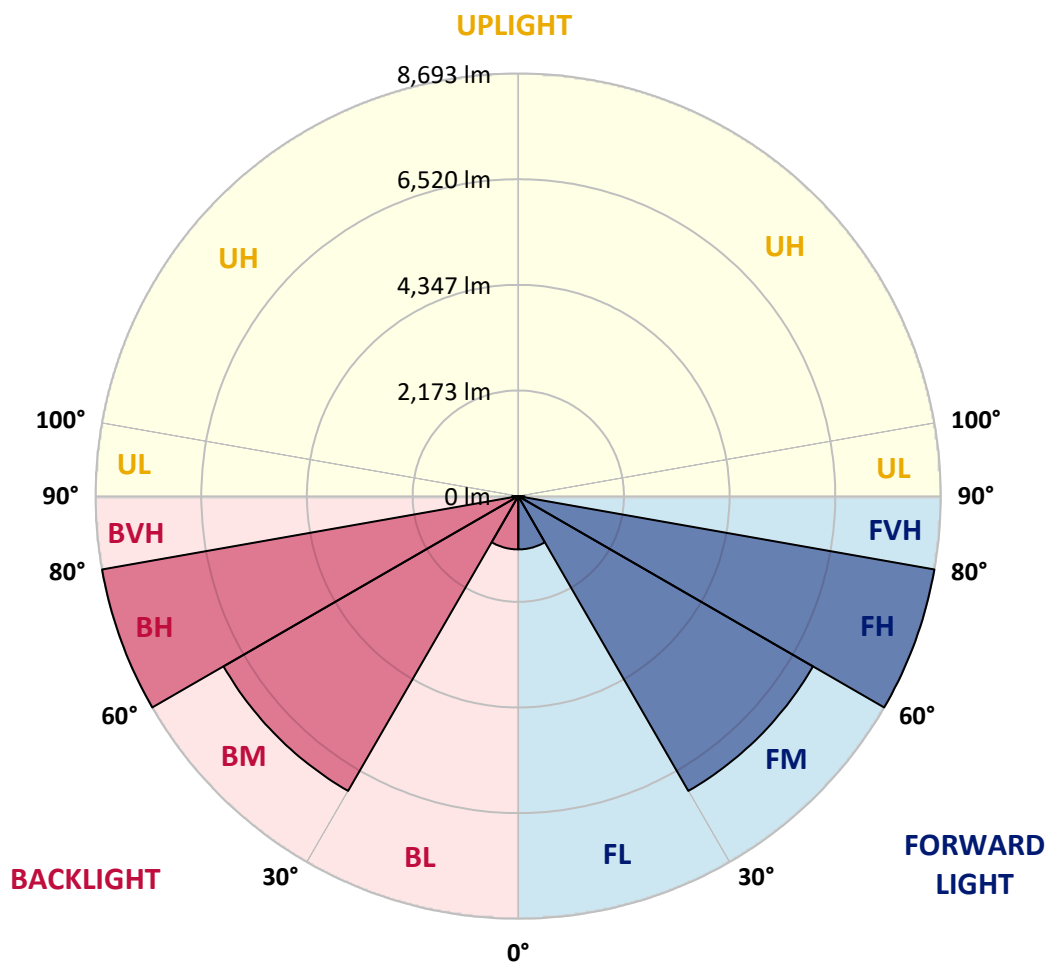
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1095.0	3.2			
FM (30°-60°)	7001.4	20.7			
FH (60°-80°)	8693.1	25.7			G4/12000
FVH (80°-90°)	126.2	0.4			G2/225
BL (0°-30°)	1095.0	3.2	B3/2500		
BM (30°-60°)	7001.4	20.7	B4/8500		
BH (60°-80°)	8693.1	25.7	B5		G4/12000
BVH (80°-90°)	126.2	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°	2586.6	2586.6	2586.6	2586.6	2586.6	2586.6	2586.6	2586.6	2586.6	2586.6	2586.6
2.5°	2556.7	2564.2	2560.4	2560.4	2571.7	2579.1	2582.9	2620.3	2605.3	2616.5	2605.3
5°	2564.2	2564.2	2571.7	2564.2	2571.7	2564.2	2571.7	2560.4	2571.7	2579.1	2590.4
7.5°	2549.2	2541.8	2530.5	2530.5	2526.8	2519.3	2508.1	2538.0	2523.1	2534.3	2553.0
10°	2553.0	2541.8	2504.4	2511.9	2478.2	2478.2	2485.7	2485.7	2519.3	2556.7	2567.9
12.5°	2553.0	2530.5	2519.3	2470.7	2470.7	2474.5	2493.2	2500.6	2523.1	2538.0	2575.4
15°	2553.0	2541.8	2523.1	2459.5	2474.5	2467.0	2485.7	2485.7	2534.3	2560.4	2579.1
17.5°	2567.9	2575.4	2541.8	2482.0	2485.7	2500.6	2489.4	2500.6	2560.4	2579.1	2605.3
20°	2571.7	2541.8	2530.5	2493.2	2526.8	2519.3	2515.6	2538.0	2556.7	2590.4	2620.3
22.5°	2564.2	2575.4	2530.5	2526.8	2556.7	2571.7	2579.1	2553.0	2575.4	2597.8	2624.0
25°	2627.7	2586.6	2575.4	2567.9	2582.9	2597.8	2590.4	2612.8	2612.8	2638.9	2672.6
27.5°	2799.7	2803.4	2781.0	2691.3	2661.4	2627.7	2642.7	2702.5	2773.5	2829.6	2840.8
30°	2878.2	2893.1	2952.9	2938.0	2926.8	2938.0	2934.2	2949.2	2956.7	2960.4	2949.2
32.5°	2949.2	2941.7	2915.5	2982.8	3203.4	3371.6	3210.8	2990.3	2941.7	2926.8	2941.7
35°	3207.1	3207.1	3151.0	3065.1	3180.9	3222.1	3147.3	3042.6	3102.4	3225.8	3233.3
37.5°	3539.8	3491.2	3513.6	3502.4	3375.3	3285.6	3416.4	3483.7	3494.9	3491.2	3528.6
40°	3737.9	3704.2	3670.6	3730.4	3846.3	3928.5	3812.6	3651.9	3693.0	3775.3	3741.6
42.5°	4190.2	4104.2	4111.7	4051.9	4048.1	4022.0	3995.8	4007.0	4066.8	4160.3	4175.2
45°	4653.7	4694.8	4668.6	4556.5	4608.8	4608.8	4534.1	4590.1	4620.0	4728.4	4743.4
47.5°	5378.8	5360.1	5371.3	5270.4	5266.7	5292.8	5266.7	5270.4	5363.9	5356.4	5315.3
50°	6227.3	6279.6	6294.6	6246.0	6186.2	6175.0	6133.9	6186.2	6242.3	6246.0	6212.4
52.5°	7401.0	7457.1	7457.1	7472.0	7546.8	7509.4	7501.9	7505.7	7397.3	7322.5	7359.9
55°	8881.2	8899.9	8963.4	9094.3	9322.3	9352.2	9210.1	9146.6	8948.5	8828.9	8922.3
57.5°	10342.7	10417.5	10593.2	10933.3	11213.6	11520.2	11109.0	10690.3	10301.6	10111.0	10144.6
60°	11557.5	11665.9	12002.3	12477.1	13254.5	13534.9	12839.6	12122.0	11333.3	10750.1	10985.6
62.5°	12129.4	12297.6	12581.7	13542.3	14708.6	15112.3	14091.8	12787.3	11591.2	11030.5	11019.3
64°	12133.2	12159.3	12727.5	13762.9	14962.7	15744.0	14394.6	12787.3	11654.7	10963.2	11090.3
65°	11882.7	11991.1	12540.6	13561.0	14802.0	15796.3	14289.9	12611.6	11393.1	10854.8	10914.6
67.5°	10746.4	10742.7	11251.0	12264.0	13987.2	15202.0	13400.3	11628.6	10746.4	10163.3	10234.3
70°	8152.3	8283.1	8769.1	10013.8	12103.3	13404.0	11718.3	9883.0	8784.0	8316.8	8290.6
72.5°	4877.9	5049.9	5670.4	7187.9	9400.8	10981.9	9299.9	7311.3	5988.1	5248.0	5266.7
75°	2224.0	2351.1	2777.2	4014.5	6264.7	8029.0	6302.1	4227.5	3031.4	2560.4	2493.2
77.5°	624.2	702.7	938.2	1842.8	3438.9	4814.4	3536.0	2037.1	1323.2	1098.9	1076.5
80°	280.3	295.3	332.7	448.5	1091.5	2123.1	1461.5	747.6	497.1	411.2	392.5
82.5°	153.3	164.5	216.8	231.7	310.2	564.4	482.2	351.4	299.0	239.2	231.7
85°	86.0	89.7	123.4	123.4	149.5	164.5	175.7	186.9	183.2	134.6	130.8
87.5°	26.2	29.9	37.4	37.4	37.4	37.4	59.8	82.2	89.7	63.5	63.5
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)