

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: P479701

Luminaire Tested: **IFLD-M-SA4E-735-U-5WQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479701
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-735-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

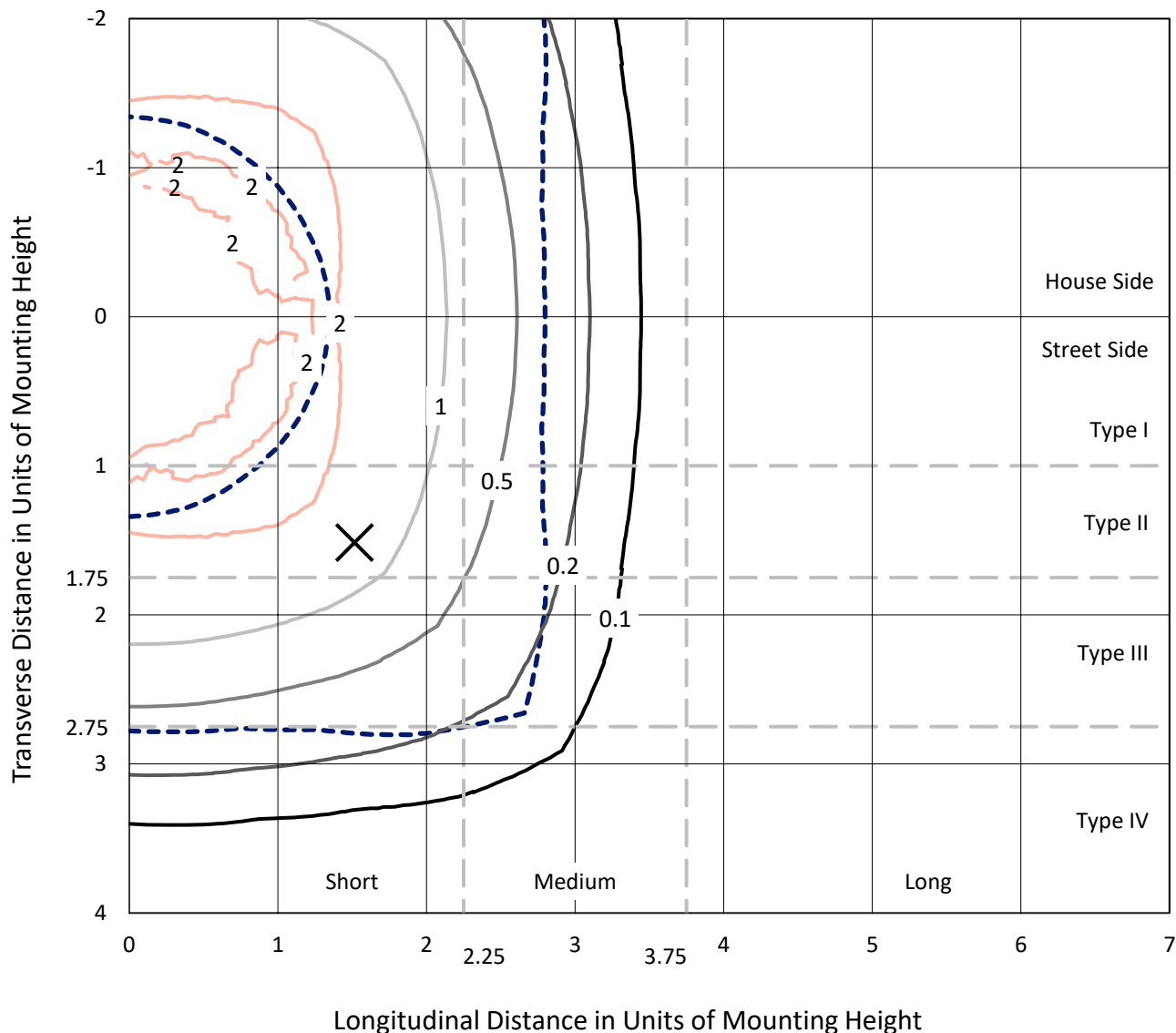
Lumens per Lamp: N/A
Luminaire Lumens: 36643.8 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 314.8
Input Voltage (V): 120
Input Current (A_{in}): 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

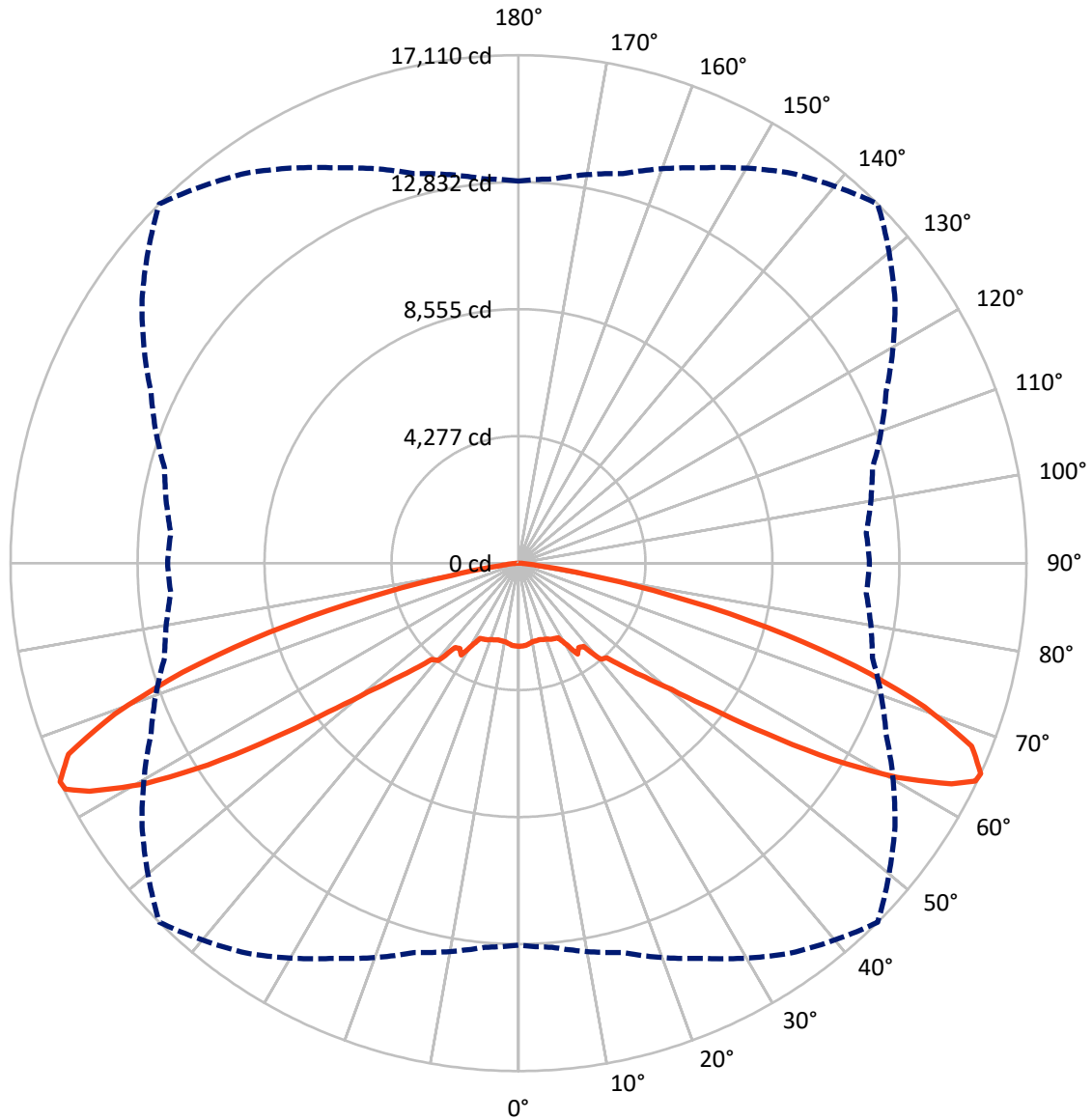
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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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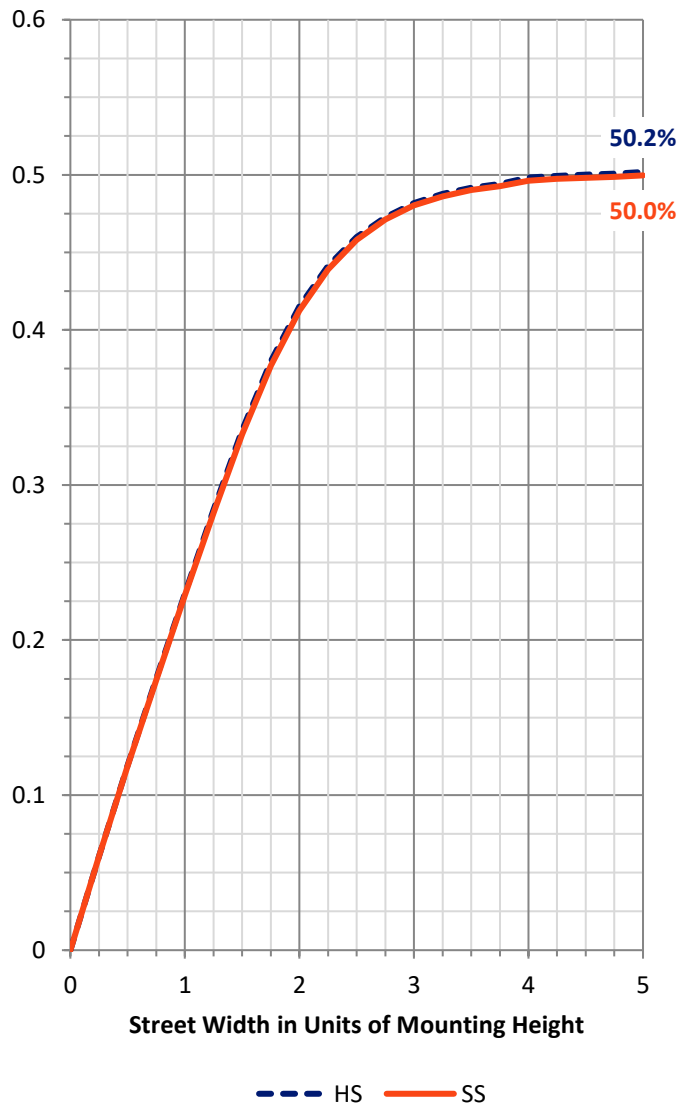
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18321.9	0.0	18321.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18321.9	0.0	18321.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	36643.8	0.0	36643.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.9	0.7
10°-20°	772.3	2.1
20°-30°	1336.8	3.6
30°-40°	2222.8	6.1
40°-50°	4010.3	10.9
50°-60°	8933.7	24.4
60°-70°	13314.1	36.3
70°-80°	5517.5	15.1
80°-90°	273.3	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°	36643.8	100.0
0°-180°	36643.8	100.0

Coefficient of Utilization

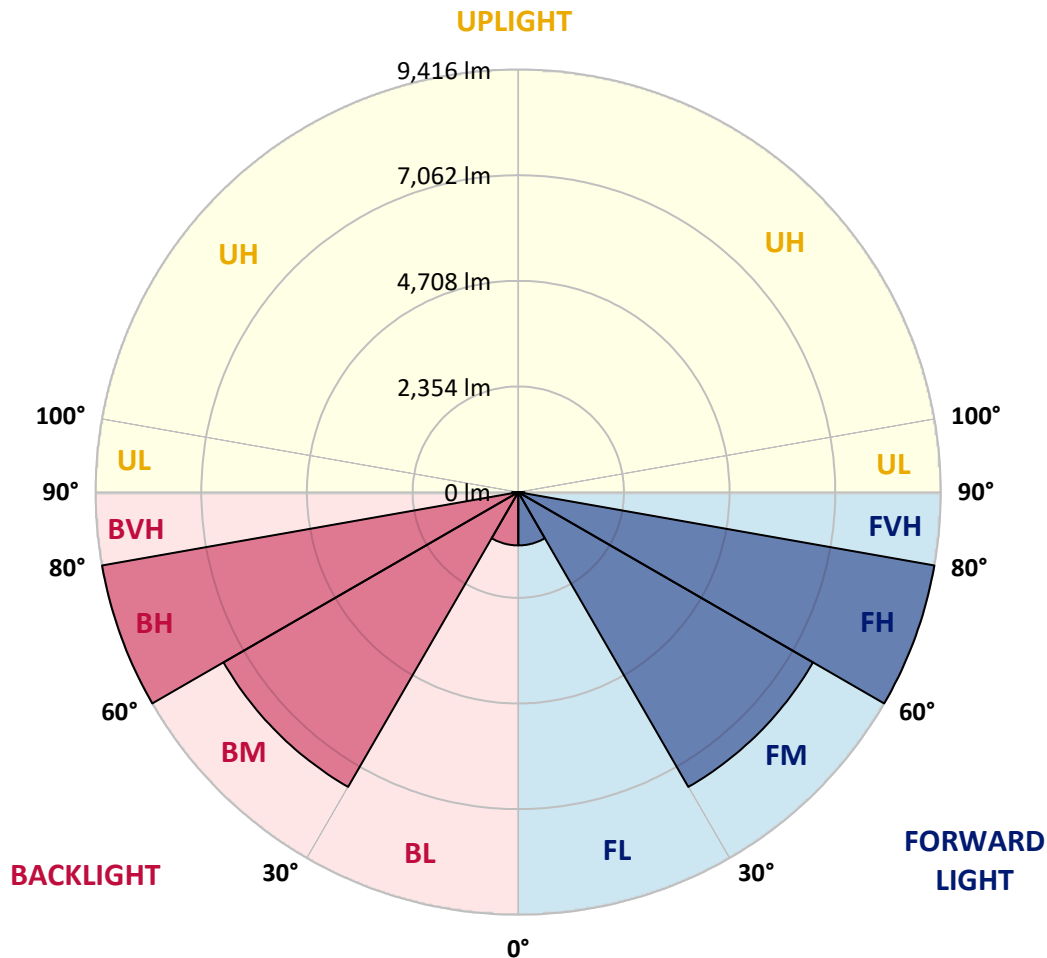


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1186.0	3.2			
FM (30°-60°)	7583.4	20.7			
FH (60°-80°)	9415.8	25.7			G4/12000
FVH (80°-90°)	136.6	0.4			G2/225
BL (0°-30°)	1186.0	3.2	B3/2500		
BM (30°-60°)	7583.4	20.7	B4/8500		
BH (60°-80°)	9415.8	25.7	B5		G4/12000
BVH (80°-90°)	136.6	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°	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6	2801.6
2.5°	2769.3	2777.4	2773.3	2773.3	2785.5	2793.5	2797.6	2838.1	2821.9	2834.0	2821.9
5°	2777.4	2777.4	2785.5	2777.4	2785.5	2777.4	2785.5	2773.3	2785.5	2793.5	2805.7
7.5°	2761.2	2753.1	2740.9	2740.9	2736.9	2728.8	2716.6	2749.0	2732.8	2745.0	2765.2
10°	2765.2	2753.1	2712.6	2720.7	2684.2	2684.2	2692.3	2692.3	2728.8	2769.3	2781.4
12.5°	2765.2	2740.9	2728.8	2676.1	2676.1	2680.2	2700.4	2708.5	2732.8	2749.0	2789.5
15°	2765.2	2753.1	2732.8	2664.0	2680.2	2672.1	2692.3	2692.3	2745.0	2773.3	2793.5
17.5°	2781.4	2789.5	2753.1	2688.3	2692.3	2708.5	2696.4	2708.5	2773.3	2793.5	2821.9
20°	2785.5	2753.1	2740.9	2700.4	2736.9	2728.8	2724.7	2749.0	2769.3	2805.7	2838.1
22.5°	2777.4	2789.5	2740.9	2736.9	2769.3	2785.5	2793.5	2765.2	2789.5	2813.8	2842.1
25°	2846.2	2801.6	2789.5	2781.4	2797.6	2813.8	2805.7	2830.0	2830.0	2858.3	2894.8
27.5°	3032.4	3036.5	3012.2	2915.0	2882.6	2846.2	2862.4	2927.2	3004.1	3064.8	3077.0
30°	3117.4	3133.6	3198.4	3182.2	3170.1	3182.2	3178.2	3194.4	3202.5	3206.5	3194.4
32.5°	3194.4	3186.3	3157.9	3230.8	3469.7	3651.9	3477.8	3238.9	3186.3	3170.1	3186.3
35°	3473.7	3473.7	3413.0	3319.9	3445.4	3489.9	3408.9	3295.6	3360.4	3494.0	3502.1
37.5°	3834.0	3781.4	3805.7	3793.6	3655.9	3558.7	3700.4	3773.3	3785.5	3781.4	3821.9
40°	4048.6	4012.2	3975.7	4040.5	4166.0	4255.1	4129.6	3955.5	4000.0	4089.1	4052.7
42.5°	4538.5	4445.4	4453.5	4388.7	4384.7	4356.3	4328.0	4340.1	4404.9	4506.1	4522.3
45°	5040.5	5085.1	5056.7	4935.3	4991.9	4991.9	4911.0	4971.7	5004.1	5121.5	5137.7
47.5°	5826.0	5805.7	5817.9	5708.6	5704.5	5732.8	5704.5	5708.6	5809.8	5801.7	5757.1
50°	6745.0	6801.7	6817.9	6765.2	6700.5	6688.3	6643.8	6700.5	6761.2	6765.2	6728.8
52.5°	8016.3	8077.0	8077.0	8093.2	8174.2	8133.7	8125.6	8129.6	8012.2	7931.2	7971.7
55°	9619.5	9639.8	9708.6	9850.3	10097.3	10129.6	9975.8	9907.0	9692.4	9562.8	9664.1
57.5°	11202.5	11283.5	11473.8	11842.2	12145.9	12477.8	12032.5	11579.1	11158.0	10951.5	10988.0
60°	12518.3	12635.7	13000.1	13514.3	14356.4	14660.1	13907.0	13129.7	12275.4	11643.8	11898.9
62.5°	13137.8	13320.0	13627.7	14668.1	15931.3	16368.6	15263.3	13850.3	12554.8	11947.5	11935.3
64°	13141.8	13170.2	13785.5	14907.0	16206.6	17052.8	15591.2	13850.3	12623.6	11874.6	12012.3
65°	12870.6	12988.0	13583.1	14688.4	16032.5	17109.5	15477.9	13660.0	12340.2	11757.2	11822.0
67.5°	11639.8	11635.7	12186.3	13283.5	15149.9	16465.7	14514.3	12595.3	11639.8	11008.2	11085.1
70°	8830.0	8971.7	9498.1	10846.3	13109.4	14518.3	12692.4	10704.6	9514.3	9008.2	8979.8
72.5°	5283.4	5469.7	6141.8	7785.5	10182.3	11894.8	10073.0	7919.1	6485.9	5684.3	5704.5
75°	2408.9	2546.6	3008.1	4348.2	6785.5	8696.4	6826.0	4579.0	3283.4	2773.3	2700.4
77.5°	676.1	761.1	1016.2	1996.0	3724.7	5214.6	3830.0	2206.5	1433.2	1190.3	1166.0
80°	303.6	319.8	360.3	485.8	1182.2	2299.6	1583.0	809.7	538.5	445.3	425.1
82.5°	166.0	178.1	234.8	251.0	336.0	611.3	522.3	380.6	323.9	259.1	251.0
85°	93.1	97.2	133.6	133.6	161.9	178.1	190.3	202.4	198.4	145.8	141.7
87.5°	28.3	32.4	40.5	40.5	40.5	40.5	64.8	89.1	97.2	68.8	68.8
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)