

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: P479862

Luminaire Tested: **IFLD-L-SA7E-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479862
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

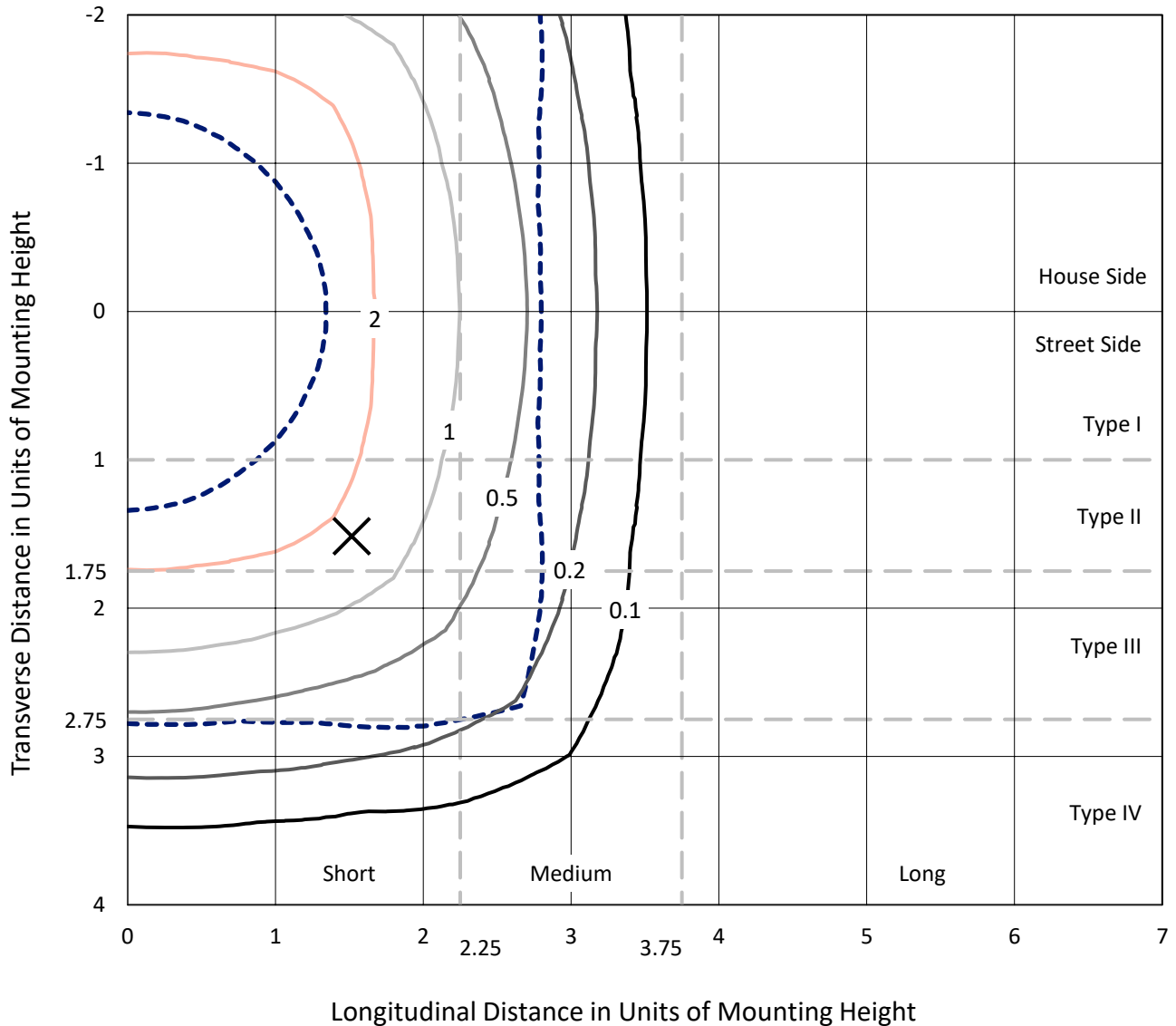
Lumens per Lamp: N/A
Luminaire Lumens: 42584.3 lumens
Efficiency: N/A
Efficacy: 79.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 532.7
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

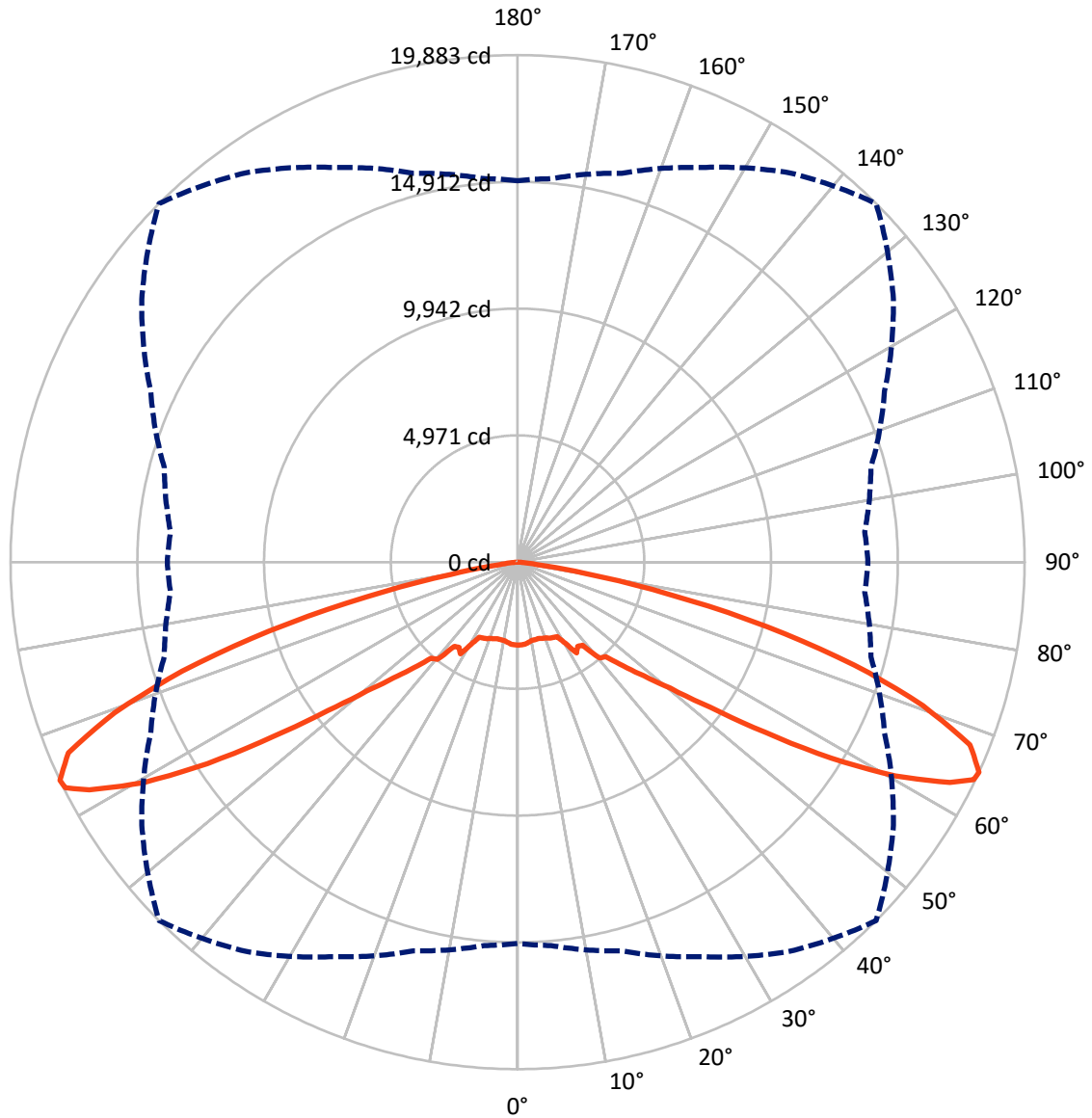
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 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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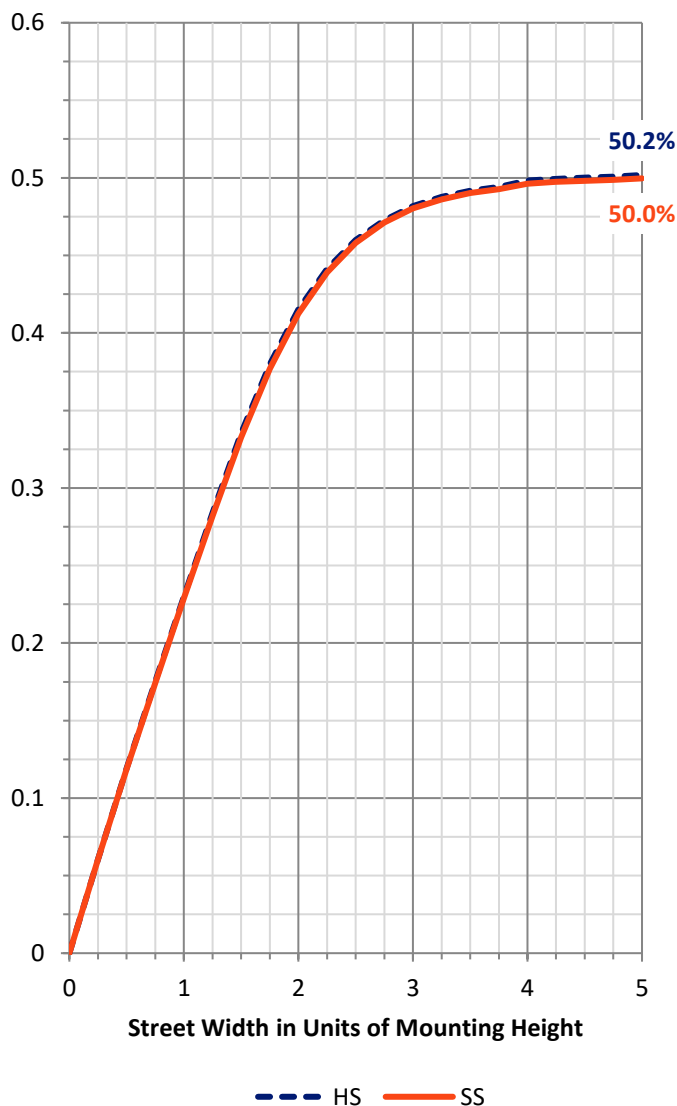
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21292.2	0.0	21292.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21292.2	0.0	21292.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	42584.3	0.0	42584.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.5	0.7
10°-20°	897.5	2.1
20°-30°	1553.5	3.6
30°-40°	2583.2	6.1
40°-50°	4660.5	10.9
50°-60°	10382.0	24.4
60°-70°	15472.5	36.3
70°-80°	6412.0	15.1
80°-90°	317.6	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°	42584.3	100.0
0°-180°	42584.3	100.0

Coefficient of Utilization



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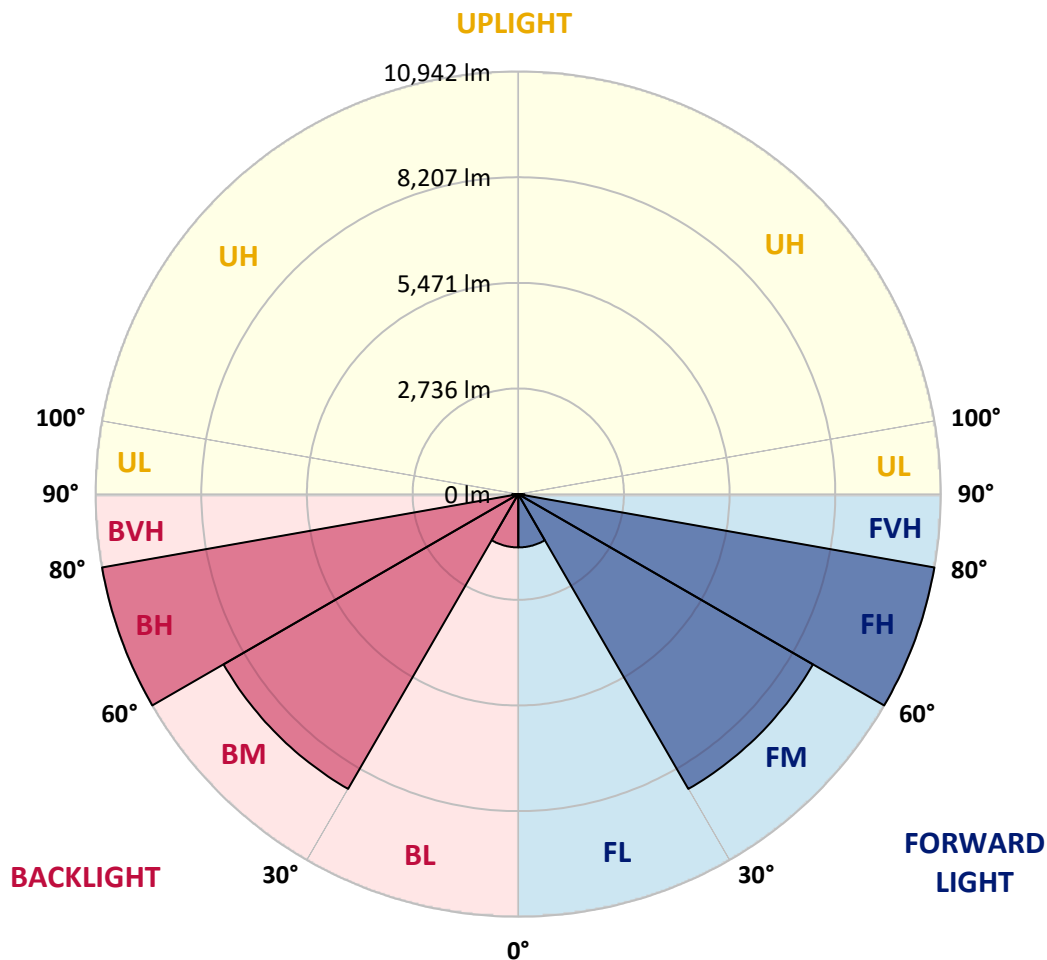
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1378.3	3.2			
FM (30°-60°)	8812.8	20.7			
FH (60°-80°)	10942.3	25.7			G4/12000
FVH (80°-90°)	158.8	0.4			G2/225
BL (0°-30°)	1378.3	3.2	B3/2500		
BM (30°-60°)	8812.8	20.7	B5		
BH (60°-80°)	10942.3	25.7	B5		G4/12000
BVH (80°-90°)	158.8	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°	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8	3255.8
2.5°	3218.2	3227.6	3222.9	3222.9	3237.0	3246.4	3251.1	3298.2	3279.4	3293.5	3279.4
5°	3227.6	3227.6	3237.0	3227.6	3237.0	3227.6	3237.0	3222.9	3237.0	3246.4	3260.5
7.5°	3208.8	3199.4	3185.3	3185.3	3180.6	3171.1	3157.0	3194.7	3175.8	3190.0	3213.5
10°	3213.5	3199.4	3152.3	3161.7	3119.4	3119.4	3128.8	3128.8	3171.1	3218.2	3232.3
12.5°	3213.5	3185.3	3171.1	3110.0	3110.0	3114.7	3138.2	3147.6	3175.8	3194.7	3241.7
15°	3213.5	3199.4	3175.8	3095.9	3114.7	3105.3	3128.8	3128.8	3190.0	3222.9	3246.4
17.5°	3232.3	3241.7	3199.4	3124.1	3128.8	3147.6	3133.5	3147.6	3222.9	3246.4	3279.4
20°	3237.0	3199.4	3185.3	3138.2	3180.6	3171.1	3166.4	3194.7	3218.2	3260.5	3298.2
22.5°	3227.6	3241.7	3185.3	3180.6	3218.2	3237.0	3246.4	3213.5	3241.7	3269.9	3302.9
25°	3307.6	3255.8	3241.7	3232.3	3251.1	3269.9	3260.5	3288.8	3288.8	3321.7	3364.0
27.5°	3524.0	3528.7	3500.5	3387.6	3349.9	3307.6	3326.4	3401.7	3491.1	3561.7	3575.8
30°	3622.8	3641.6	3716.9	3698.1	3684.0	3698.1	3693.4	3712.2	3721.6	3726.3	3712.2
32.5°	3712.2	3702.8	3669.9	3754.6	4032.1	4243.9	4041.6	3764.0	3702.8	3684.0	3702.8
35°	4036.9	4036.9	3966.3	3858.1	4003.9	4055.7	3961.6	3829.8	3905.1	4060.4	4069.8
37.5°	4455.6	4394.4	4422.7	4408.5	4248.6	4135.7	4300.3	4385.0	4399.1	4394.4	4441.5
40°	4705.0	4662.6	4620.3	4695.5	4841.4	4944.9	4799.1	4596.7	4648.5	4752.0	4709.7
42.5°	5274.3	5166.0	5175.5	5100.2	5095.5	5062.5	5029.6	5043.7	5119.0	5236.6	5255.4
45°	5857.7	5909.4	5876.5	5735.3	5801.2	5801.2	5707.1	5777.7	5815.3	5951.8	5970.6
47.5°	6770.4	6746.9	6761.0	6634.0	6629.3	6662.2	6629.3	6634.0	6751.6	6742.2	6690.5
50°	7838.5	7904.3	7923.1	7862.0	7786.7	7772.6	7720.8	7786.7	7857.3	7862.0	7819.6
52.5°	9315.8	9386.4	9386.4	9405.2	9499.3	9452.3	9442.9	9447.6	9311.1	9217.0	9264.1
55°	11179.0	11202.5	11282.5	11447.2	11734.2	11771.8	11593.0	11513.0	11263.7	11113.1	11230.7
57.5°	13018.6	13112.7	13333.9	13762.0	14114.9	14500.7	13983.1	13456.2	12966.9	12726.9	12769.3
60°	14547.7	14684.2	15107.6	15705.1	16683.8	17036.7	16161.5	15258.2	14265.4	13531.5	13827.9
62.5°	15267.6	15479.3	15836.9	17046.1	18514.0	19022.1	17737.7	16095.7	14590.1	13884.3	13870.2
64°	15272.3	15305.2	16020.4	17323.7	18833.9	19817.3	18118.8	16095.7	14670.1	13799.6	13959.6
65°	14957.1	15093.5	15785.1	17069.6	18631.6	19883.2	17987.1	15874.5	14340.7	13663.2	13738.5
67.5°	13526.8	13522.0	14161.9	15437.0	17606.0	19135.1	16867.3	14637.1	13526.8	12792.8	12882.2
70°	10261.5	10426.2	11037.8	12604.6	15234.7	16872.0	14750.0	12439.9	11056.7	10468.5	10435.6
72.5°	6140.0	6356.4	7137.4	9047.6	11833.0	13823.2	11705.9	9202.9	7537.3	6605.8	6629.3
75°	2799.4	2959.4	3495.8	5053.1	7885.5	10106.2	7932.6	5321.3	3815.7	3222.9	3138.2
77.5°	785.7	884.5	1180.9	2319.5	4328.6	6060.0	4450.9	2564.2	1665.6	1383.3	1355.0
80°	352.9	371.7	418.7	564.6	1373.8	2672.4	1839.6	941.0	625.8	517.5	494.0
82.5°	192.9	207.0	272.9	291.7	390.5	710.4	606.9	442.3	376.4	301.1	291.7
85°	108.2	112.9	155.3	155.3	188.2	207.0	221.1	235.2	230.5	169.4	164.7
87.5°	32.9	37.6	47.0	47.0	47.0	47.0	75.3	103.5	112.9	80.0	80.0
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)