

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: P479857

Luminaire Tested: **IFLD-M-SA4E-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479857
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

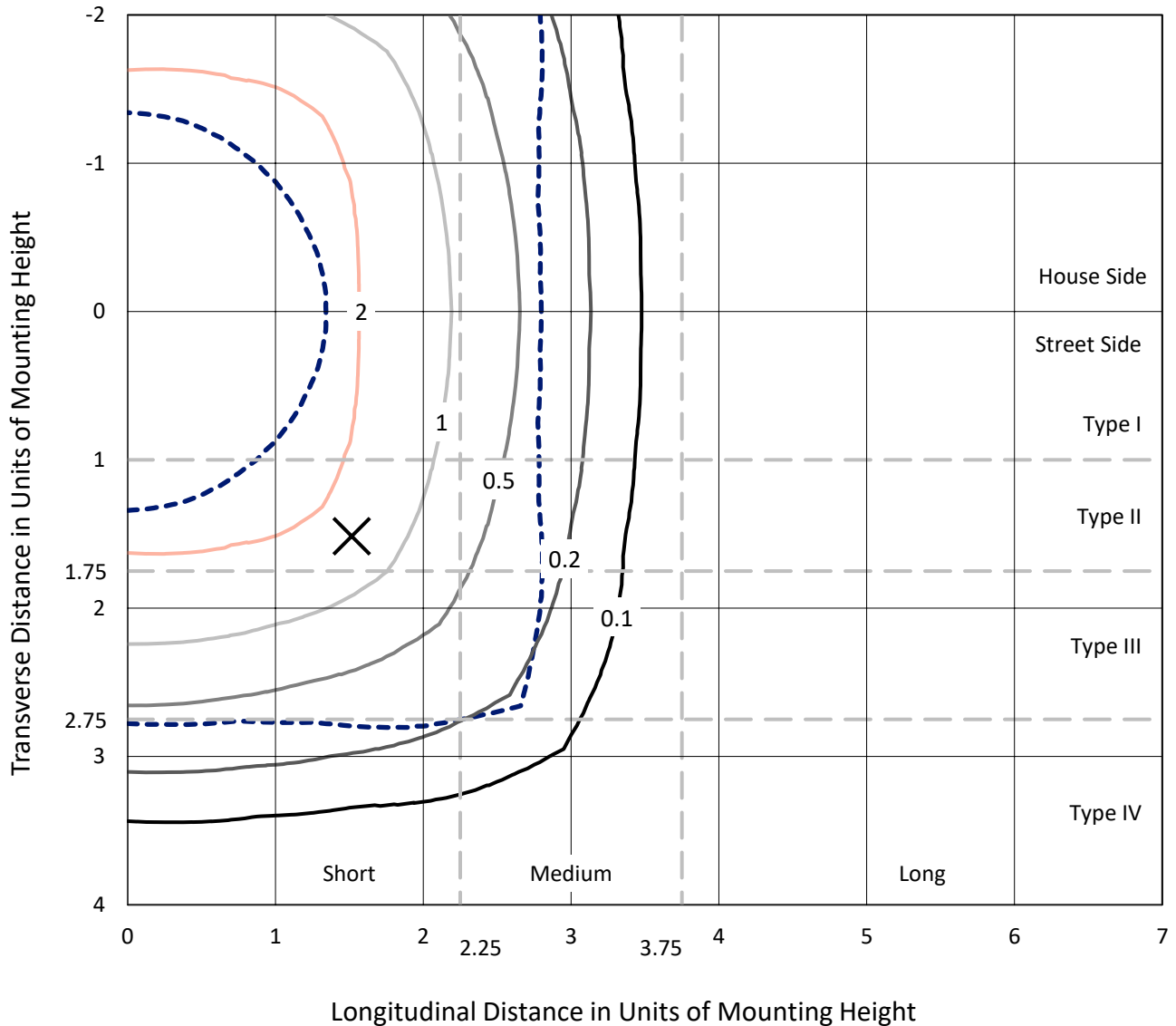
Lumens per Lamp: N/A
Luminaire Lumens: 27311 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

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

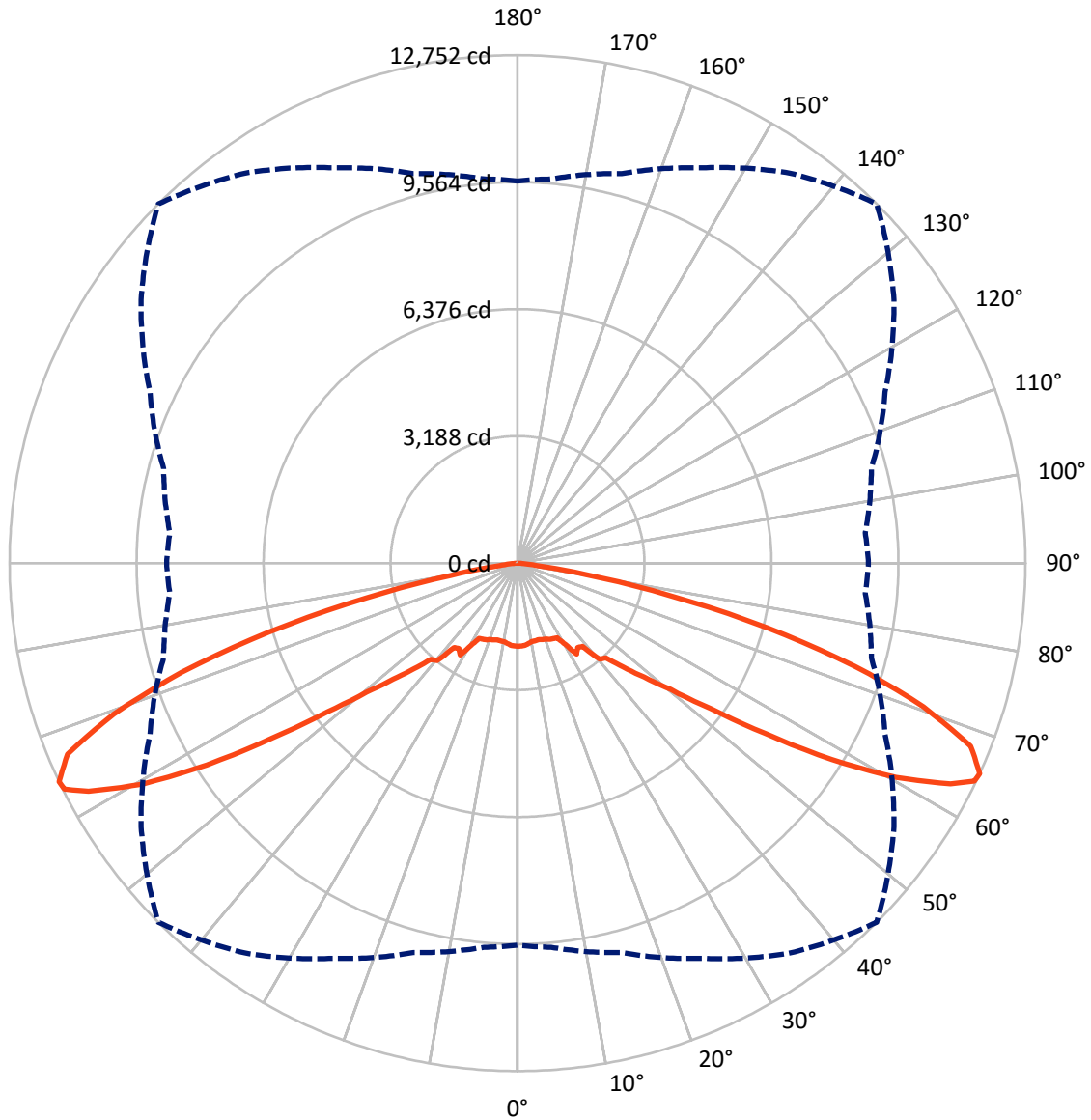
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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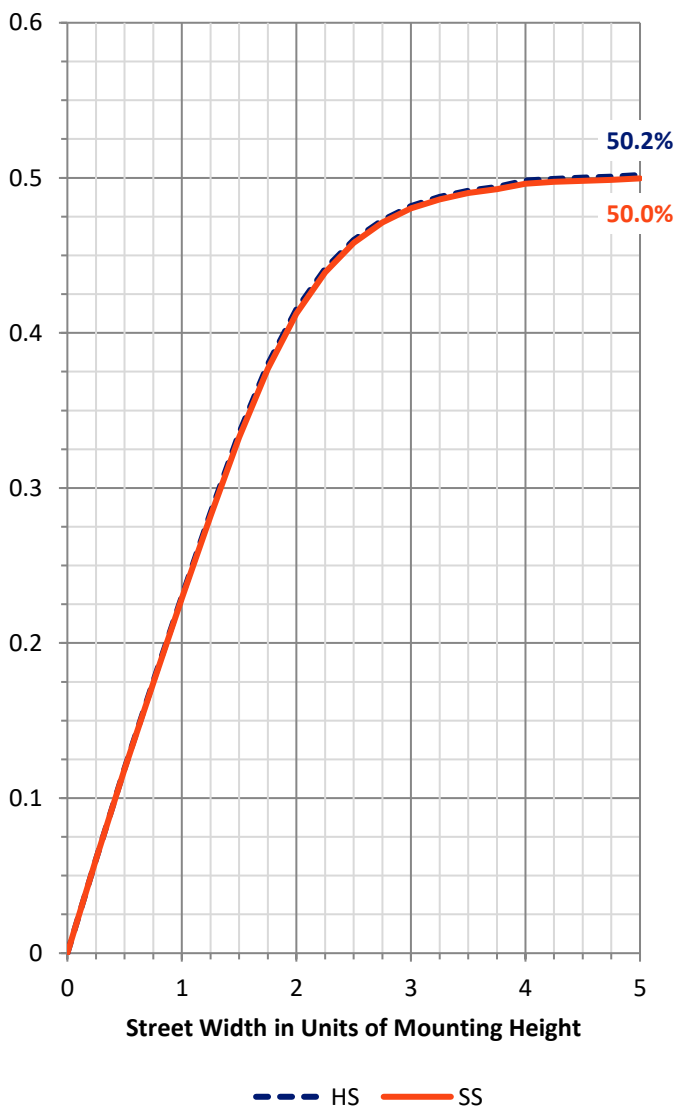
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13655.5	0.0	13655.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13655.5	0.0	13655.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	27311.0	0.0	27311.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.0	0.7
10°-20°	575.6	2.1
20°-30°	996.3	3.6
30°-40°	1656.7	6.1
40°-50°	2989.0	10.9
50°-60°	6658.4	24.4
60°-70°	9923.1	36.3
70°-80°	4112.3	15.1
80°-90°	203.7	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°	27311.0	100.0
0°-180°	27311.0	100.0

Coefficient of Utilization



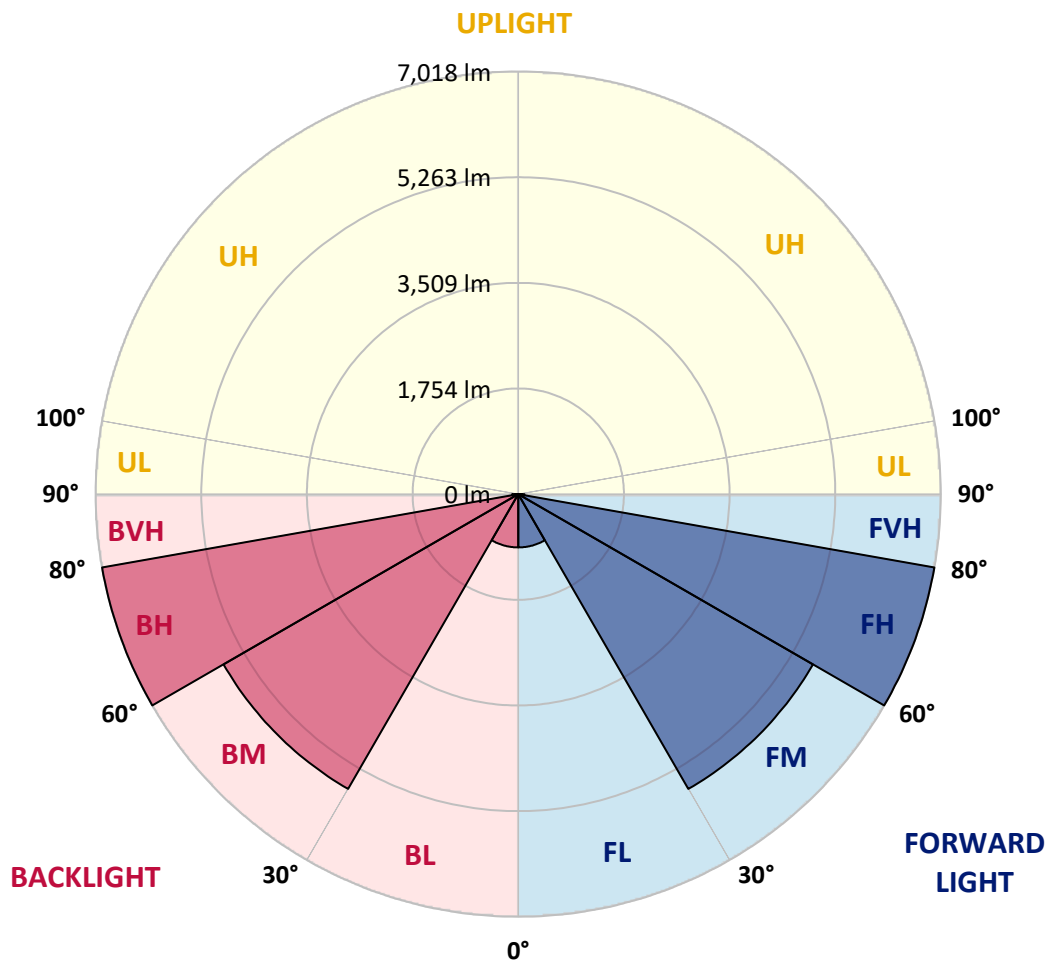
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	883.9	3.2			
FM (30°-60°)	5652.0	20.7			
FH (60°-80°)	7017.7	25.7			G3/7500
FVH (80°-90°)	101.8	0.4			G2/225
BL (0°-30°)	883.9	3.2	B2/1000		
BM (30°-60°)	5652.0	20.7	B4/8500		
BH (60°-80°)	7017.7	25.7	B5		G3/7500
BVH (80°-90°)	101.8	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-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1	2088.1
2.5°	2064.0	2070.0	2067.0	2067.0	2076.0	2082.1	2085.1	2115.3	2103.2	2112.2	2103.2
5°	2070.0	2070.0	2076.0	2070.0	2076.0	2070.0	2076.0	2067.0	2076.0	2082.1	2091.1
7.5°	2057.9	2051.9	2042.8	2042.8	2039.8	2033.8	2024.7	2048.9	2036.8	2045.9	2060.9
10°	2060.9	2051.9	2021.7	2027.7	2000.6	2000.6	2006.6	2006.6	2033.8	2064.0	2073.0
12.5°	2060.9	2042.8	2033.8	1994.6	1994.6	1997.6	2012.7	2018.7	2036.8	2048.9	2079.0
15°	2060.9	2051.9	2036.8	1985.5	1997.6	1991.5	2006.6	2006.6	2045.9	2067.0	2082.1
17.5°	2073.0	2079.0	2051.9	2003.6	2006.6	2018.7	2009.6	2018.7	2067.0	2082.1	2103.2
20°	2076.0	2051.9	2042.8	2012.7	2039.8	2033.8	2030.8	2048.9	2064.0	2091.1	2115.3
22.5°	2070.0	2079.0	2042.8	2039.8	2064.0	2076.0	2082.1	2060.9	2079.0	2097.1	2118.3
25°	2121.3	2088.1	2079.0	2073.0	2085.1	2097.1	2091.1	2109.2	2109.2	2130.3	2157.5
27.5°	2260.1	2263.1	2245.0	2172.6	2148.4	2121.3	2133.4	2181.6	2239.0	2284.2	2293.3
30°	2323.5	2335.5	2383.8	2371.7	2362.7	2371.7	2368.7	2380.8	2386.8	2389.8	2380.8
32.5°	2380.8	2374.8	2353.6	2407.9	2586.0	2721.8	2592.0	2414.0	2374.8	2362.7	2374.8
35°	2589.0	2589.0	2543.7	2474.3	2567.9	2601.1	2540.7	2456.2	2504.5	2604.1	2610.1
37.5°	2857.6	2818.3	2836.4	2827.4	2724.8	2652.4	2758.0	2812.3	2821.3	2818.3	2848.5
40°	3017.5	2990.3	2963.2	3011.4	3105.0	3171.4	3077.8	2948.1	2981.3	3047.7	3020.5
42.5°	3382.6	3313.2	3319.2	3270.9	3267.9	3246.8	3225.7	3234.7	3283.0	3358.5	3370.5
45°	3756.8	3790.0	3768.8	3678.3	3720.6	3720.6	3660.2	3705.5	3729.6	3817.1	3829.2
47.5°	4342.2	4327.1	4336.1	4254.6	4251.6	4272.8	4251.6	4254.6	4330.1	4324.0	4290.9
50°	5027.1	5069.4	5081.4	5042.2	4993.9	4984.9	4951.7	4993.9	5039.2	5042.2	5015.1
52.5°	5974.6	6019.9	6019.9	6031.9	6092.3	6062.1	6056.1	6059.1	5971.6	5911.2	5941.4
55°	7169.5	7184.6	7235.9	7341.5	7525.6	7549.7	7435.1	7383.8	7223.8	7127.3	7202.7
57.5°	8349.4	8409.7	8551.5	8826.1	9052.4	9299.9	8967.9	8630.0	8316.2	8162.3	8189.4
60°	9330.0	9417.6	9689.1	10072.3	10700.0	10926.3	10365.0	9785.7	9149.0	8678.3	8868.4
62.5°	9791.7	9927.5	10156.8	10932.3	11873.8	12199.7	11375.9	10322.8	9357.2	8904.6	8895.5
64°	9794.7	9815.9	10274.5	11110.4	12079.0	12709.6	11620.3	10322.8	9408.5	8850.3	8952.9
65°	9592.6	9680.1	10123.6	10947.4	11949.2	12751.9	11535.8	10181.0	9197.3	8762.8	8811.0
67.5°	8675.3	8672.2	9082.6	9900.4	11291.4	12272.1	10817.7	9387.4	8675.3	8204.5	8261.9
70°	6581.1	6686.7	7079.0	8083.8	9770.6	10820.7	9459.8	7978.2	7091.1	6713.9	6692.8
72.5°	3937.8	4076.6	4577.5	5802.6	7589.0	8865.4	7507.5	5902.2	4834.0	4236.5	4251.6
75°	1795.4	1898.0	2242.0	3240.8	5057.3	6481.5	5087.5	3412.8	2447.2	2067.0	2012.7
77.5°	503.9	567.3	757.4	1487.6	2776.1	3886.5	2854.5	1644.5	1068.2	887.1	869.0
80°	226.3	238.4	268.6	362.1	881.1	1713.9	1179.8	603.5	401.3	331.9	316.8
82.5°	123.7	132.8	175.0	187.1	250.5	455.6	389.3	283.6	241.4	193.1	187.1
85°	69.4	72.4	99.6	99.6	120.7	132.8	141.8	150.9	147.9	108.6	105.6
87.5°	21.1	24.1	30.2	30.2	30.2	30.2	48.3	66.4	72.4	51.3	51.3
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)