

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: P479865

Luminaire Tested: **IFLD-L-SA8C-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479865
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

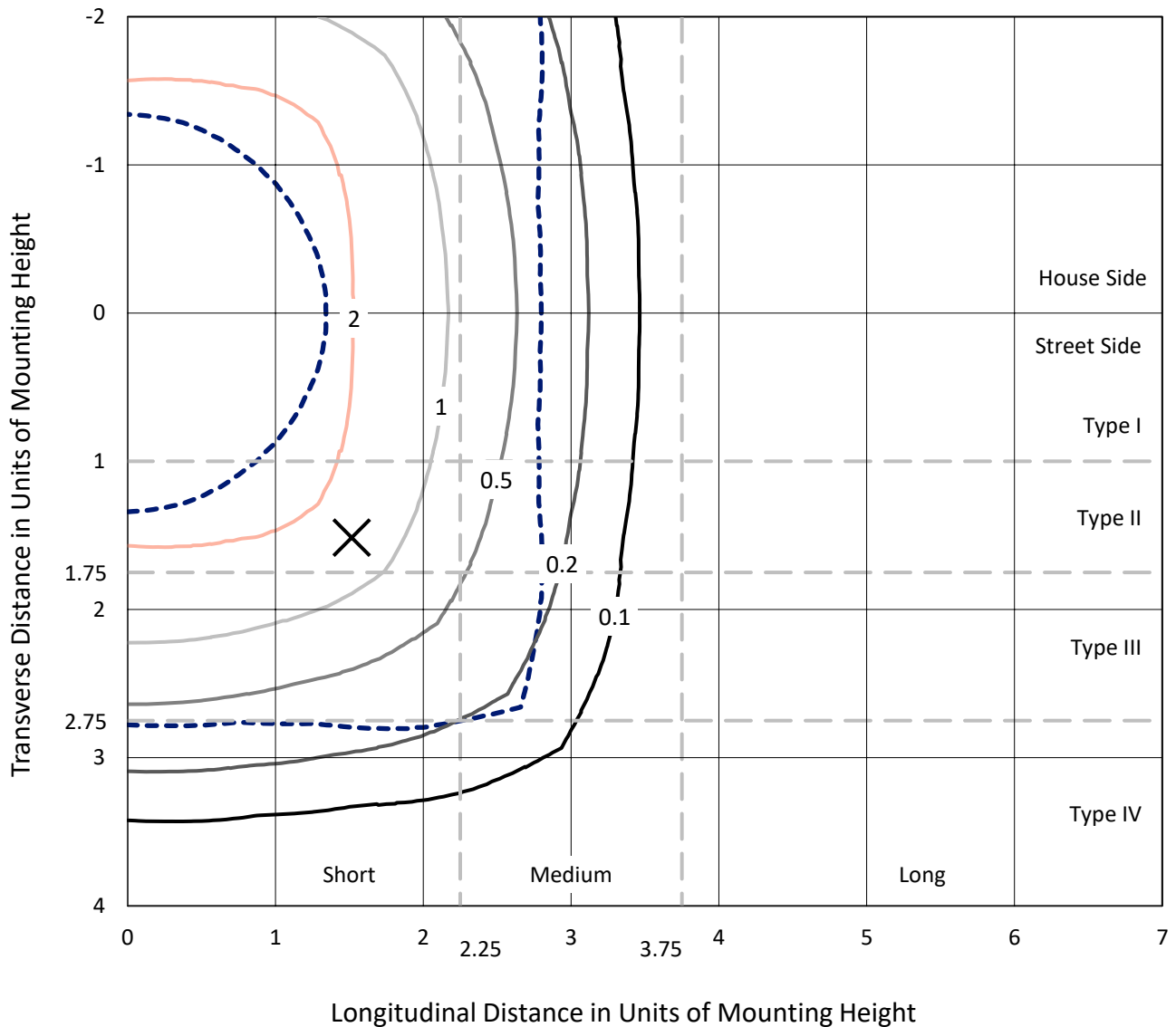
Lumens per Lamp: N/A
Luminaire Lumens: 38218.5 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3
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

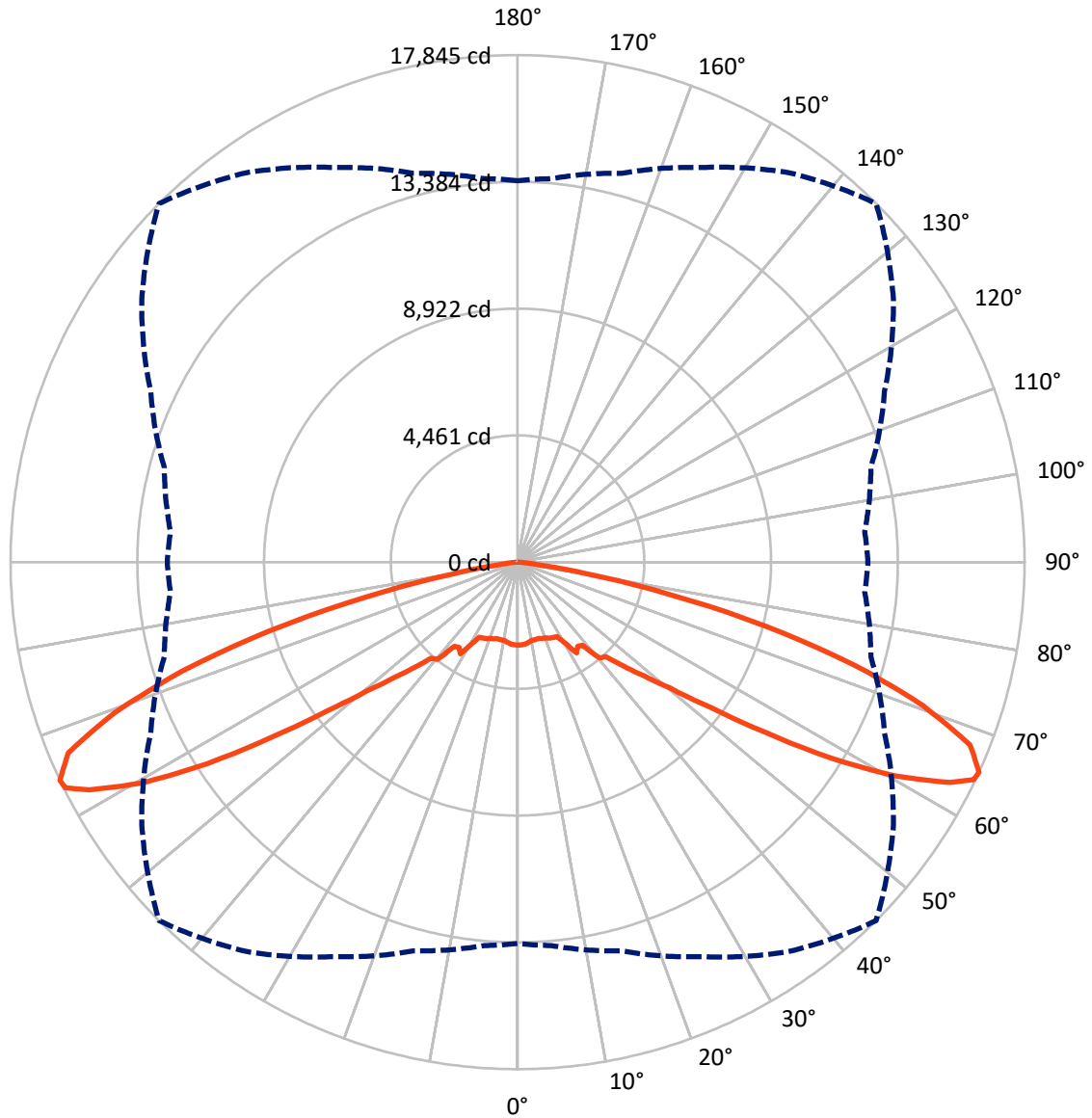
× Max cd
 - - - 1/2 Max cd



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
House Side	Lumens	19109.3	0.0	19109.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19109.3	0.0	19109.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	38218.5	0.0	38218.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.2	0.7
10°-20°	805.5	2.1
20°-30°	1394.3	3.6
30°-40°	2318.4	6.1
40°-50°	4182.7	10.9
50°-60°	9317.6	24.4
60°-70°	13886.3	36.3
70°-80°	5754.6	15.1
80°-90°	285.0	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°	38218.5	100.0
0°-180°	38218.5	100.0

Coefficient of Utilization



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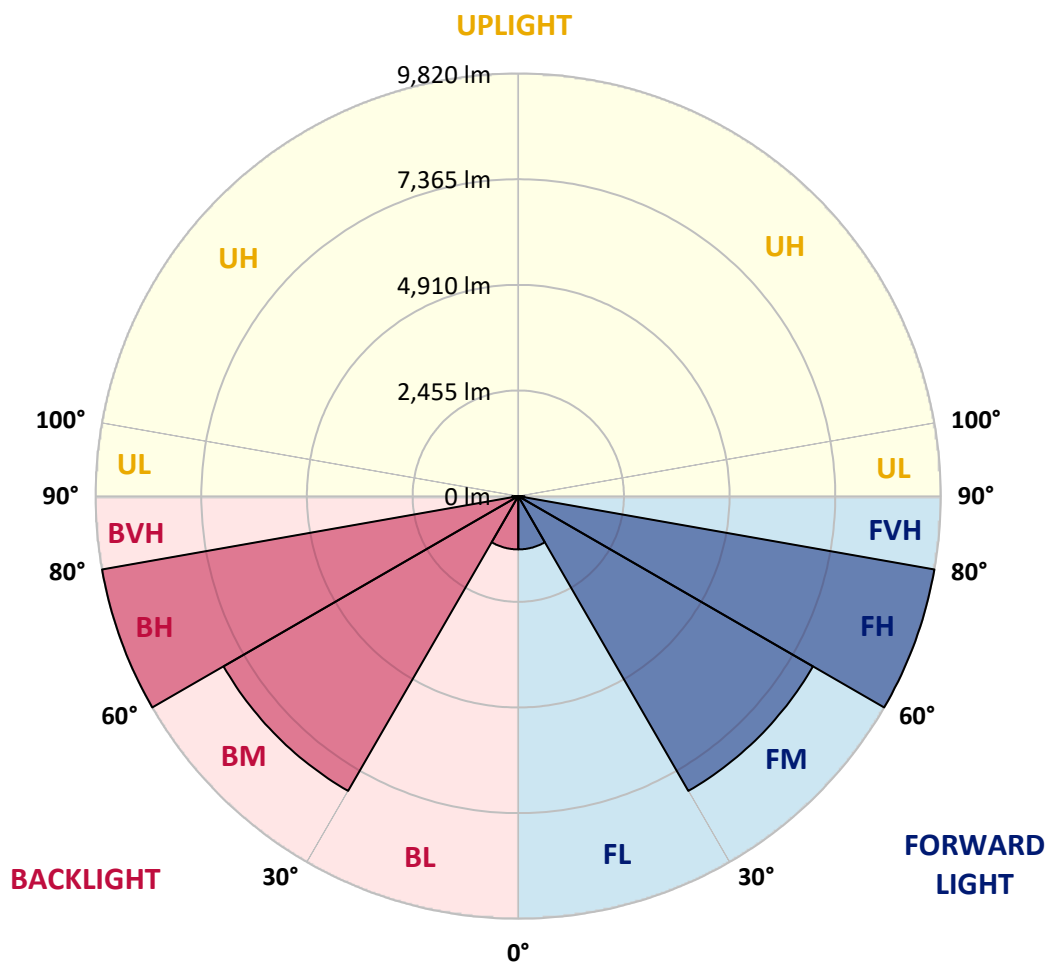
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1237.0	3.2			
FM (30°-60°)	7909.3	20.7			
FH (60°-80°)	9820.4	25.7			G4/12000
FVH (80°-90°)	142.5	0.4			G2/225
BL (0°-30°)	1237.0	3.2	B3/2500		
BM (30°-60°)	7909.3	20.7	B4/8500		
BH (60°-80°)	9820.4	25.7	B5		G4/12000
BVH (80°-90°)	142.5	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°	2922.0	2922.0	2922.0	2922.0	2922.0	2922.0	2922.0	2922.0	2922.0	2922.0	2922.0
2.5°	2888.3	2896.7	2892.5	2892.5	2905.1	2913.6	2917.8	2960.0	2943.2	2955.8	2943.2
5°	2896.7	2896.7	2905.1	2896.7	2905.1	2896.7	2905.1	2892.5	2905.1	2913.6	2926.3
7.5°	2879.8	2871.4	2858.7	2858.7	2854.5	2846.0	2833.4	2867.1	2850.3	2862.9	2884.0
10°	2884.0	2871.4	2829.1	2837.6	2799.6	2799.6	2808.0	2808.0	2846.0	2888.3	2900.9
12.5°	2884.0	2858.7	2846.0	2791.1	2791.1	2795.4	2816.5	2824.9	2850.3	2867.1	2909.4
15°	2884.0	2871.4	2850.3	2778.5	2795.4	2786.9	2808.0	2808.0	2862.9	2892.5	2913.6
17.5°	2900.9	2909.4	2871.4	2803.8	2808.0	2824.9	2812.3	2824.9	2892.5	2913.6	2943.2
20°	2905.1	2871.4	2858.7	2816.5	2854.5	2846.0	2841.8	2867.1	2888.3	2926.3	2960.0
22.5°	2896.7	2909.4	2858.7	2854.5	2888.3	2905.1	2913.6	2884.0	2909.4	2934.7	2964.3
25°	2968.5	2922.0	2909.4	2900.9	2917.8	2934.7	2926.3	2951.6	2951.6	2981.2	3019.2
27.5°	3162.7	3167.0	3141.6	3040.3	3006.5	2968.5	2985.4	3052.9	3133.2	3196.5	3209.2
30°	3251.4	3268.3	3335.9	3319.0	3306.3	3319.0	3314.7	3331.6	3340.1	3344.3	3331.6
32.5°	3331.6	3323.2	3293.6	3369.6	3618.8	3808.8	3627.2	3378.1	3323.2	3306.3	3323.2
35°	3623.0	3623.0	3559.7	3462.5	3593.4	3639.9	3555.4	3437.2	3504.8	3644.1	3652.5
37.5°	3998.8	3943.9	3969.2	3956.6	3813.0	3711.7	3859.5	3935.5	3948.1	3943.9	3986.1
40°	4222.6	4184.6	4146.6	4214.2	4345.1	4438.0	4307.1	4125.5	4171.9	4264.8	4226.8
42.5°	4733.5	4636.4	4644.9	4577.3	4573.1	4543.5	4514.0	4526.6	4594.2	4699.8	4716.6
45°	5257.1	5303.6	5274.0	5147.3	5206.5	5206.5	5122.0	5185.4	5219.1	5341.6	5358.5
47.5°	6076.3	6055.2	6067.9	5953.9	5949.6	5979.2	5949.6	5953.9	6059.4	6051.0	6004.5
50°	7034.9	7094.0	7110.9	7056.0	6988.4	6975.7	6929.3	6988.4	7051.7	7056.0	7018.0
52.5°	8360.7	8424.1	8424.1	8441.0	8525.4	8483.2	8474.8	8479.0	8356.5	8272.1	8314.3
55°	10032.9	10054.0	10125.8	10273.6	10531.2	10564.9	10404.5	10332.7	10108.9	9973.8	10079.3
57.5°	11683.9	11768.4	11966.8	12351.1	12667.8	13014.1	12549.6	12076.6	11637.5	11422.1	11460.1
60°	13056.3	13178.7	13558.8	14095.0	14973.3	15290.0	14504.6	13693.9	12802.9	12144.2	12410.2
62.5°	13702.3	13892.4	14213.3	15298.5	16615.9	17072.0	15919.2	14445.5	13094.3	12460.9	12448.2
64°	13706.6	13736.1	14378.0	15547.6	16903.1	17785.6	16261.2	14445.5	13166.1	12384.9	12528.5
65°	13423.6	13546.1	14166.8	15319.6	16721.5	17844.7	16143.0	14247.1	12870.5	12262.4	12330.0
67.5°	12140.0	12135.8	12710.0	13854.4	15801.0	17173.3	15138.0	13136.5	12140.0	11481.3	11561.5
70°	9209.5	9357.3	9906.2	11312.3	13672.8	15142.2	13237.9	11164.6	9923.1	9395.3	9365.7
72.5°	5510.5	5704.7	6405.7	8120.1	10619.8	12406.0	10505.8	8259.4	6764.6	5928.5	5949.6
75°	2512.4	2656.0	3137.4	4535.1	7077.1	9070.1	7119.3	4775.8	3424.5	2892.5	2816.5
77.5°	705.2	793.8	1059.9	2081.7	3884.8	5438.7	3994.6	2301.3	1494.8	1241.4	1216.1
80°	316.7	333.6	375.8	506.7	1233.0	2398.4	1651.0	844.5	561.6	464.5	443.4
82.5°	173.1	185.8	244.9	261.8	350.5	637.6	544.7	396.9	337.8	270.2	261.8
85°	97.1	101.3	139.3	139.3	168.9	185.8	198.5	211.1	206.9	152.0	147.8
87.5°	29.6	33.8	42.2	42.2	42.2	42.2	67.6	92.9	101.3	71.8	71.8
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)