

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: P479899

Luminaire Tested: **IFLD-L-SA7C-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479899
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36147.9 lumens
Efficiency: N/A
Efficacy: 98.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

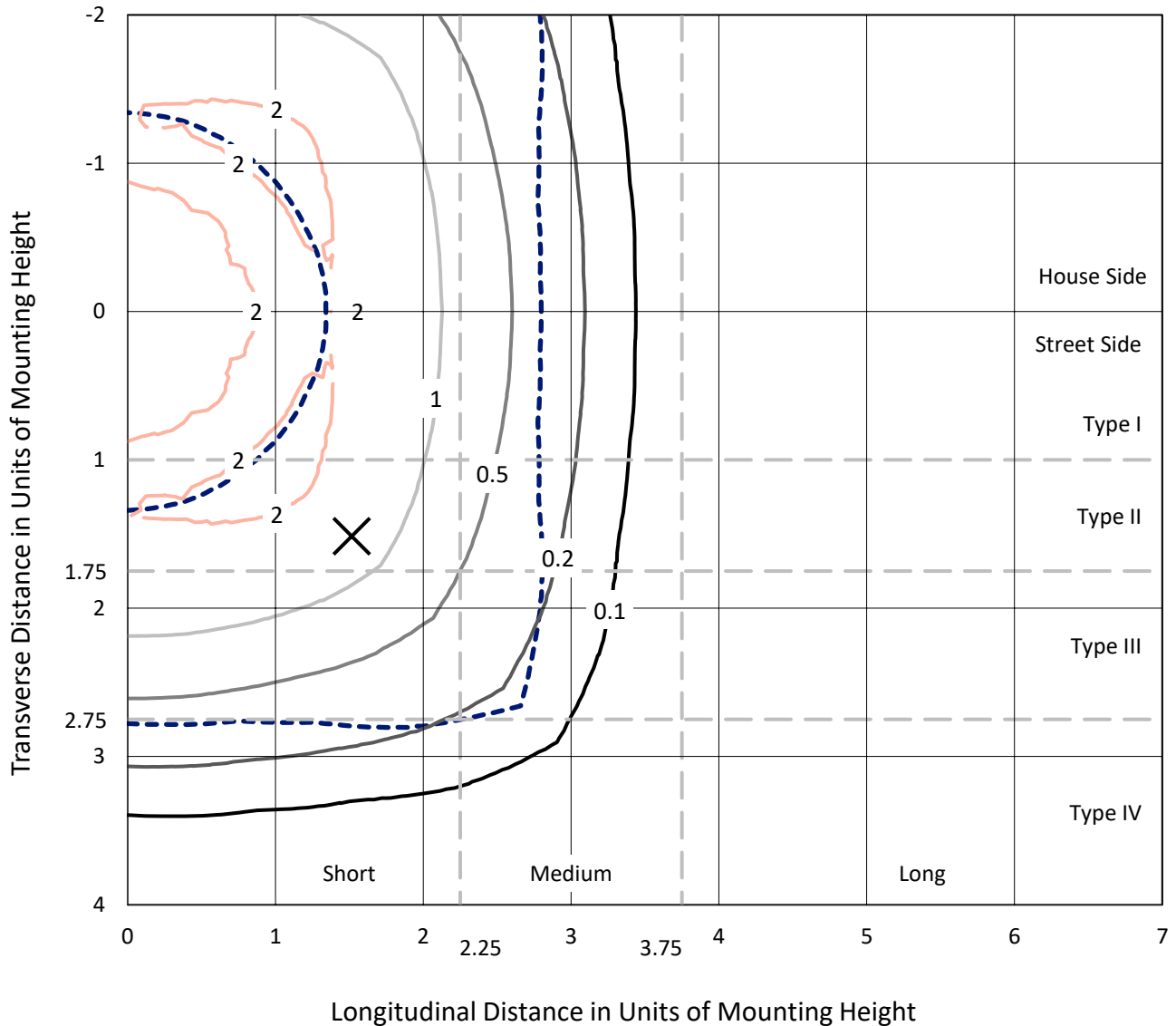
Input Watts (W): 369
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

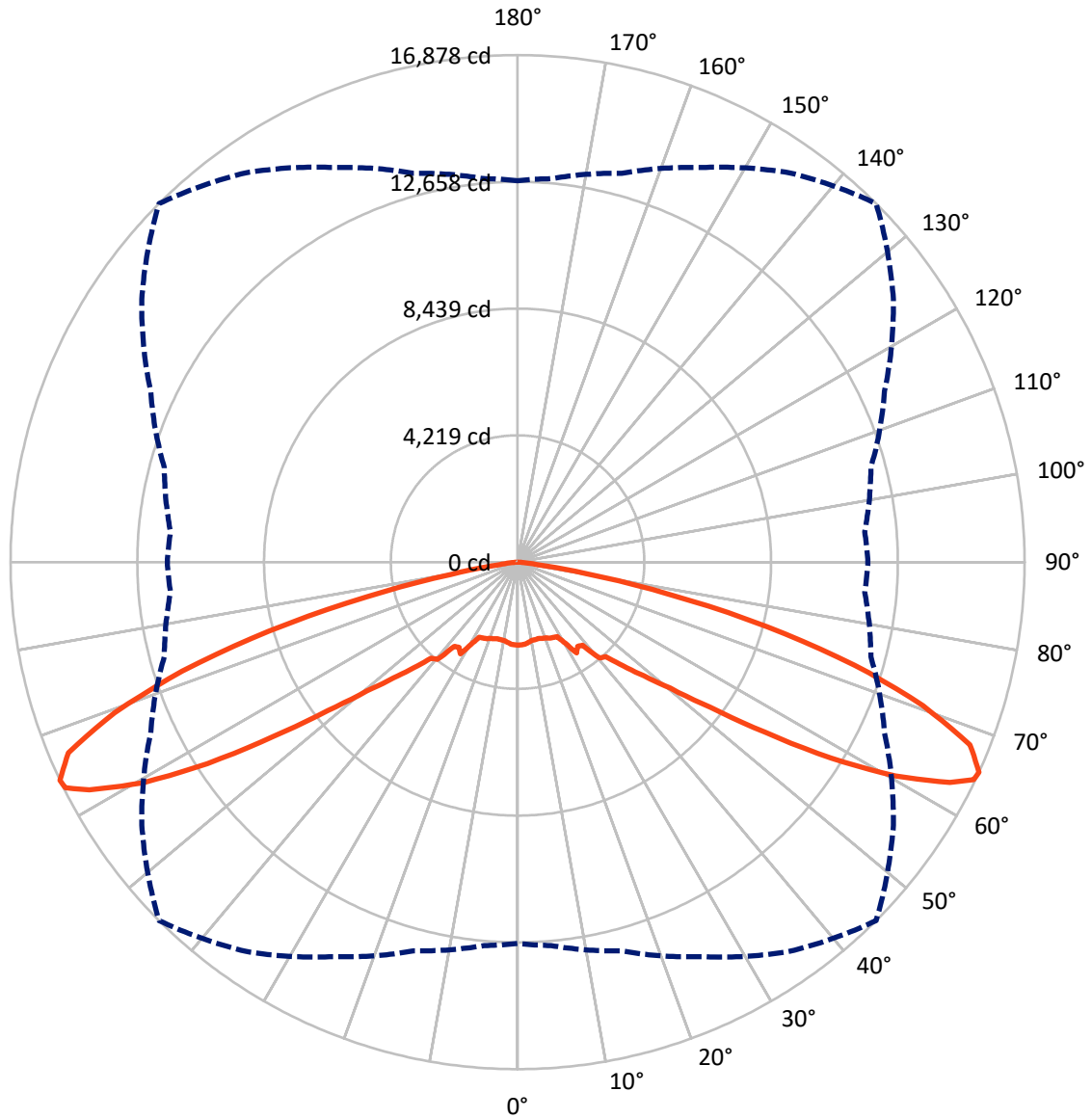
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.1 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	18073.9	0.0	18073.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18073.9	0.0	18073.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	36147.9	0.0	36147.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.4	0.7
10°-20°	761.8	2.1
20°-30°	1318.7	3.6
30°-40°	2192.8	6.1
40°-50°	3956.1	10.9
50°-60°	8812.8	24.4
60°-70°	13133.9	36.3
70°-80°	5442.8	15.1
80°-90°	269.6	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°	36147.9	100.0
0°-180°	36147.9	100.0

Coefficient of Utilization



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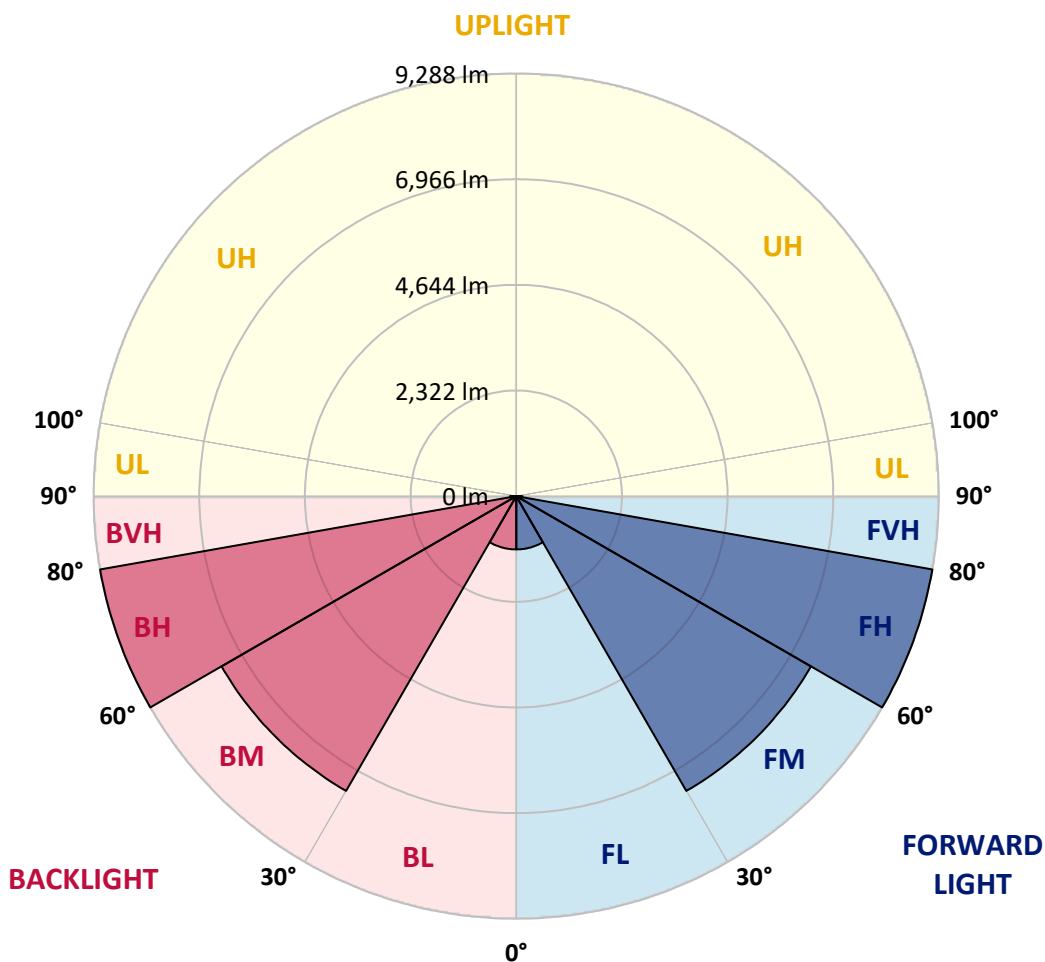
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1170.0	3.2			
FM (30°-60°)	7480.8	20.7			
FH (60°-80°)	9288.4	25.7			G4/12000
FVH (80°-90°)	134.8	0.4			G2/225
BL (0°-30°)	1170.0	3.2	B3/2500		
BM (30°-60°)	7480.8	20.7	B4/8500		
BH (60°-80°)	9288.4	25.7	B5		G4/12000
BVH (80°-90°)	134.8	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°	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7	2763.7
2.5°	2731.8	2739.8	2735.8	2735.8	2747.8	2755.7	2759.7	2799.7	2783.7	2795.7	2783.7
5°	2739.8	2739.8	2747.8	2739.8	2747.8	2739.8	2747.8	2735.8	2747.8	2755.7	2767.7
7.5°	2723.8	2715.8	2703.8	2703.8	2699.8	2691.8	2679.9	2711.8	2695.8	2707.8	2727.8
10°	2727.8	2715.8	2675.9	2683.9	2647.9	2647.9	2655.9	2655.9	2691.8	2731.8	2743.8
12.5°	2727.8	2703.8	2691.8	2639.9	2639.9	2643.9	2663.9	2671.9	2695.8	2711.8	2751.7
15°	2727.8	2715.8	2695.8	2627.9	2643.9	2635.9	2655.9	2655.9	2707.8	2735.8	2755.7
17.5°	2743.8	2751.7	2715.8	2651.9	2655.9	2671.9	2659.9	2671.9	2735.8	2755.7	2783.7
20°	2747.8	2715.8	2703.8	2663.9	2699.8	2691.8	2687.8	2711.8	2731.8	2767.7	2799.7
22.5°	2739.8	2751.7	2703.8	2699.8	2731.8	2747.8	2755.7	2727.8	2751.7	2775.7	2803.7
25°	2807.7	2763.7	2751.7	2743.8	2759.7	2775.7	2767.7	2791.7	2791.7	2819.6	2855.6
27.5°	2991.4	2995.4	2971.4	2875.6	2843.6	2807.7	2823.6	2887.5	2963.4	3023.3	3035.3
30°	3075.2	3091.2	3155.1	3139.1	3127.2	3139.1	3135.2	3151.1	3159.1	3163.1	3151.1
32.5°	3151.1	3143.1	3115.2	3187.1	3422.7	3602.4	3430.7	3195.1	3143.1	3127.2	3143.1
35°	3426.7	3426.7	3366.8	3274.9	3398.7	3442.7	3362.8	3251.0	3314.9	3446.7	3454.7
37.5°	3782.2	3730.2	3754.2	3742.2	3606.4	3510.6	3650.4	3722.2	3734.2	3730.2	3770.2
40°	3993.8	3957.9	3921.9	3985.8	4109.6	4197.5	4073.7	3902.0	3945.9	4033.8	3997.8
42.5°	4477.1	4385.2	4393.2	4329.3	4325.3	4297.4	4269.4	4281.4	4345.3	4445.1	4461.1
45°	4972.3	5016.2	4988.3	4868.5	4924.4	4924.4	4844.5	4904.4	4936.4	5052.2	5068.2
47.5°	5747.1	5727.1	5739.1	5631.3	5627.3	5655.3	5627.3	5631.3	5731.1	5723.2	5679.2
50°	6653.7	6709.6	6725.6	6673.7	6609.8	6597.8	6553.9	6609.8	6669.7	6673.7	6637.7
52.5°	7907.8	7967.7	7967.7	7983.7	8063.5	8023.6	8015.6	8019.6	7903.8	7823.9	7863.8
55°	9489.3	9509.3	9577.2	9717.0	9960.6	9992.5	9840.8	9772.9	9561.2	9433.4	9533.3
57.5°	11050.9	11130.8	11318.5	11681.9	11981.5	12309.0	11869.6	11422.3	11007.0	10803.3	10839.2
60°	12348.9	12464.7	12824.2	13331.4	14162.1	14461.6	13718.8	12952.0	12109.3	11486.2	11737.9
62.5°	12960.0	13139.7	13443.2	14469.6	15715.7	16147.0	15056.7	13662.9	12384.9	11785.8	11773.8
64°	12964.0	12991.9	13599.0	14705.3	15987.3	16822.0	15380.2	13662.9	12452.7	11713.9	11849.7
65°	12696.4	12812.2	13399.3	14489.6	15815.5	16877.9	15268.4	13475.2	12173.2	11598.1	11662.0
67.5°	11482.2	11478.3	12021.4	13103.7	14944.9	16242.9	14317.9	12424.8	11482.2	10859.2	10935.1
70°	8710.5	8850.3	9369.5	10699.5	12932.0	14321.9	12520.6	10559.7	9385.5	8886.3	8858.3
72.5°	5211.9	5395.7	6058.6	7680.1	10044.5	11733.9	9936.6	7811.9	6398.1	5607.3	5627.3
75°	2376.3	2512.1	2967.4	4289.4	6693.7	8578.7	6733.6	4517.0	3239.0	2735.8	2663.9
77.5°	667.0	750.8	1002.4	1969.0	3674.3	5144.0	3778.2	2176.6	1413.8	1174.2	1150.2
80°	299.5	315.5	355.5	479.3	1166.2	2268.5	1561.6	798.8	531.2	439.3	419.4
82.5°	163.7	175.7	231.6	247.6	331.5	603.1	515.2	375.4	319.5	255.6	247.6
85°	91.9	95.9	131.8	131.8	159.8	175.7	187.7	199.7	195.7	143.8	139.8
87.5°	28.0	32.0	39.9	39.9	39.9	39.9	63.9	87.9	95.9	67.9	67.9
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)