

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: P479889

Luminaire Tested: **IFLD-S-SA6C-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479889
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6C-830-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

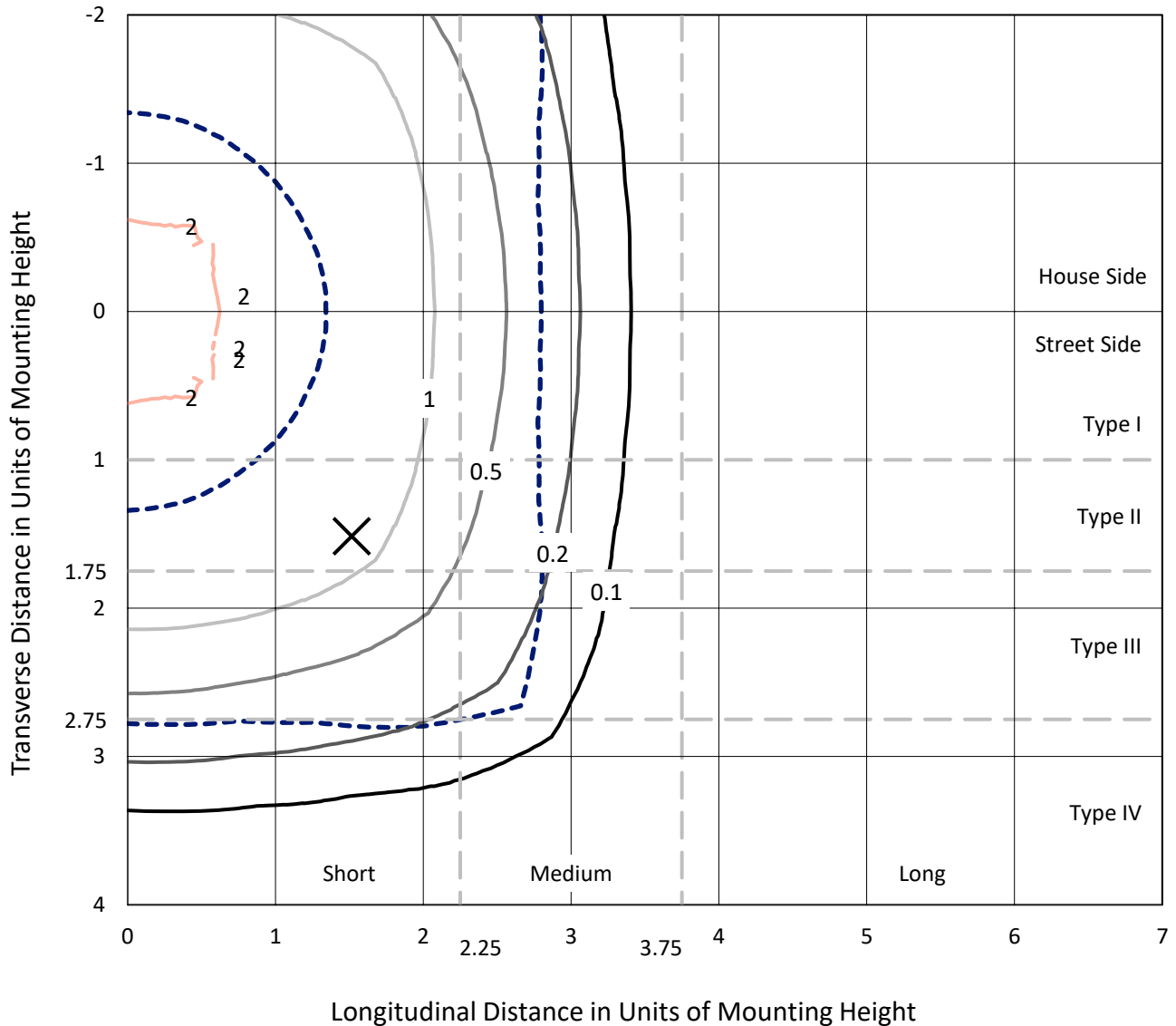
Lumens per Lamp: N/A
Luminaire Lumens: 33881.8 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 321.5
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

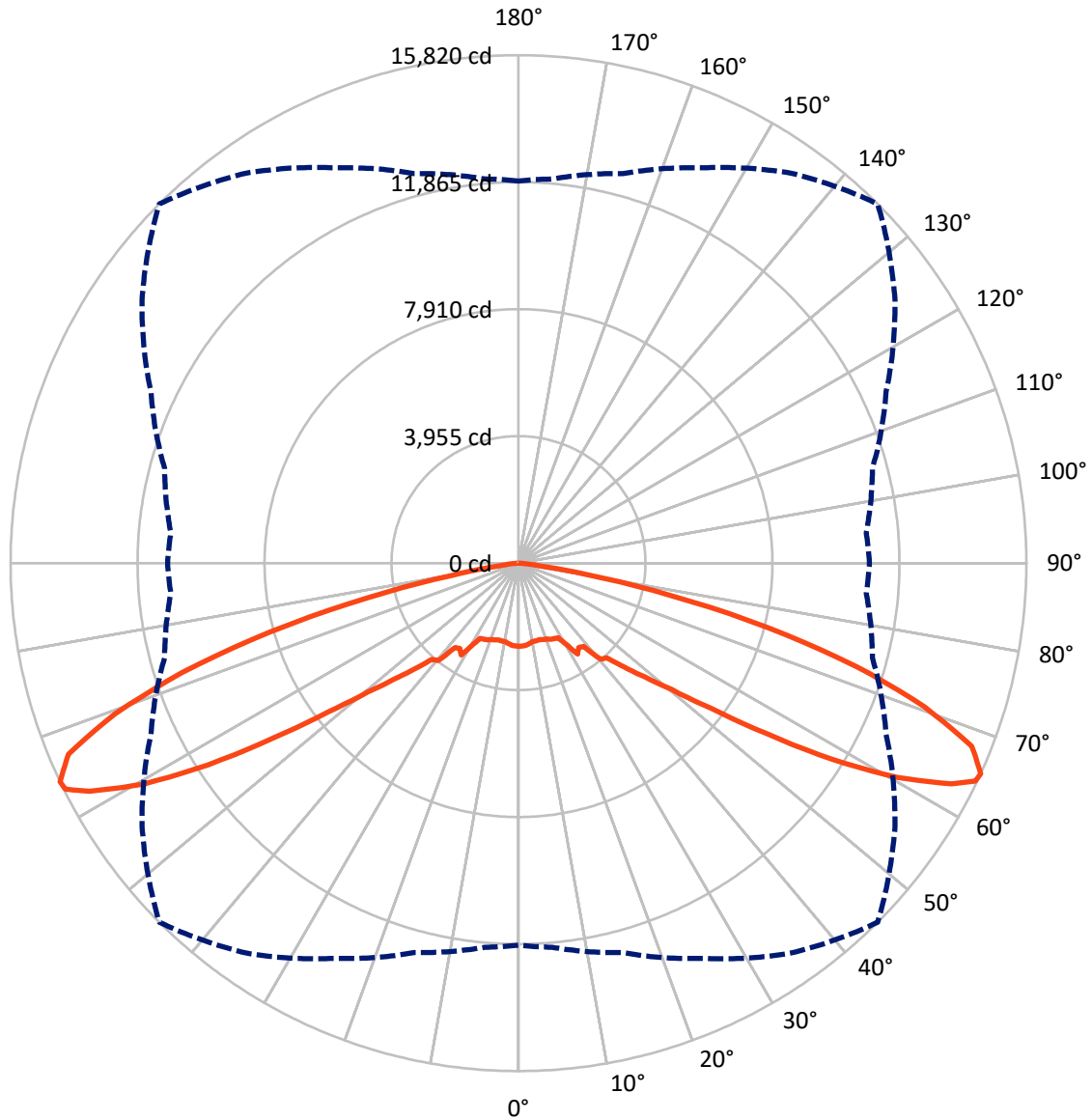
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.9 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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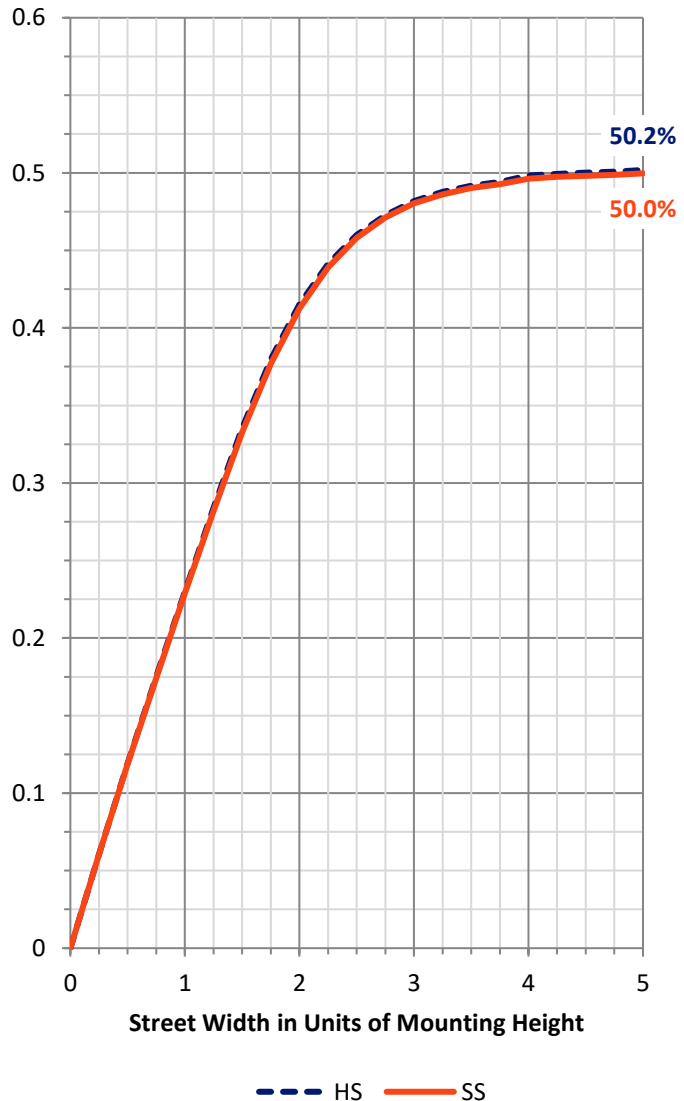
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16940.9	0.0	16940.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	16940.9	0.0	16940.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	33881.8	0.0	33881.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	243.1	0.7
10°-20°	714.1	2.1
20°-30°	1236.0	3.6
30°-40°	2055.3	6.1
40°-50°	3708.1	10.9
50°-60°	8260.3	24.4
60°-70°	12310.6	36.3
70°-80°	5101.6	15.1
80°-90°	252.7	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°	33881.8	100.0
0°-180°	33881.8	100.0

Coefficient of Utilization



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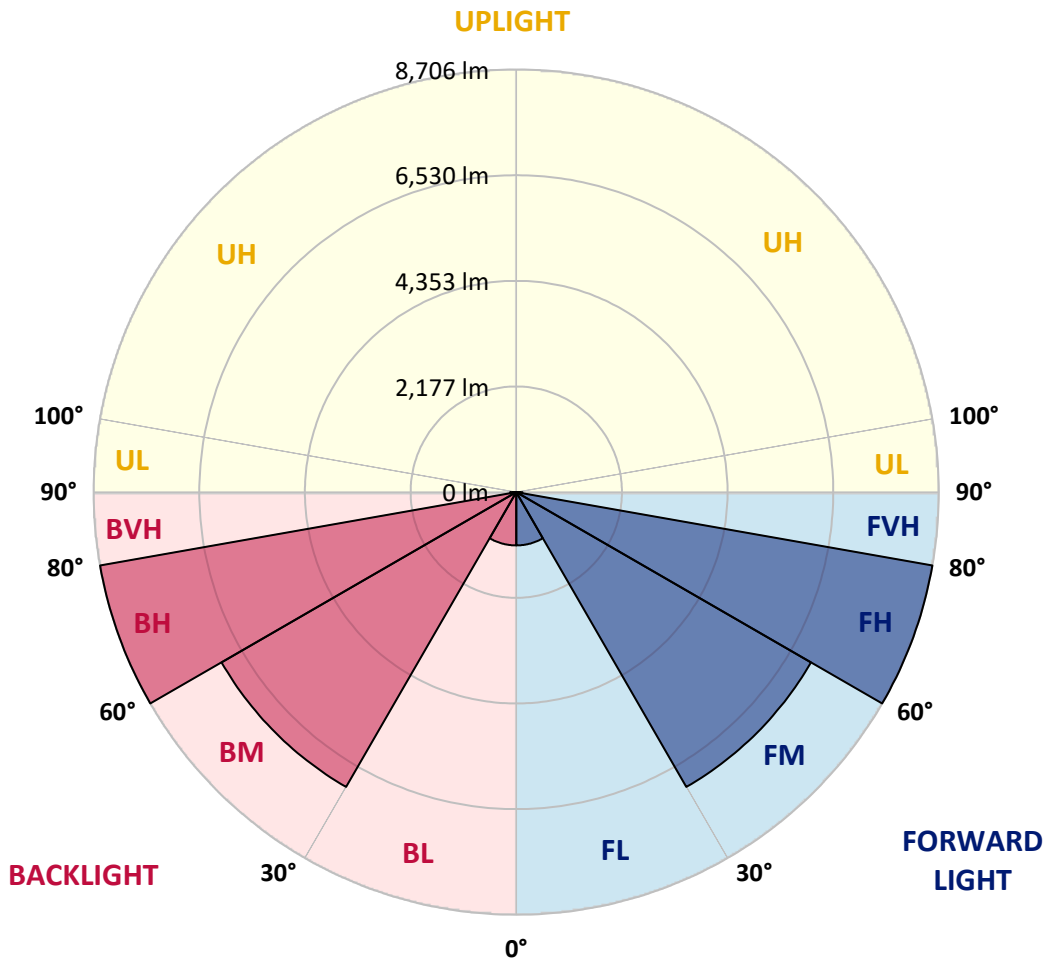
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1096.6	3.2			
FM (30°-60°)	7011.9	20.7			
FH (60°-80°)	8706.1	25.7			G4/12000
FVH (80°-90°)	126.3	0.4			G2/225
BL (0°-30°)	1096.6	3.2	B3/2500		
BM (30°-60°)	7011.9	20.7	B4/8500		
BH (60°-80°)	8706.1	25.7	B5		G4/12000
BVH (80°-90°)	126.3	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°	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5	2590.5
2.5°	2560.5	2568.0	2564.3	2564.3	2575.5	2583.0	2586.7	2624.2	2609.2	2620.4	2609.2
5°	2568.0	2568.0	2575.5	2568.0	2575.5	2568.0	2575.5	2564.3	2575.5	2583.0	2594.2
7.5°	2553.0	2545.6	2534.3	2534.3	2530.6	2523.1	2511.9	2541.8	2526.8	2538.1	2556.8
10°	2556.8	2545.6	2508.1	2515.6	2481.9	2481.9	2489.4	2489.4	2523.1	2560.5	2571.8
12.5°	2556.8	2534.3	2523.1	2474.4	2474.4	2478.2	2496.9	2504.4	2526.8	2541.8	2579.2
15°	2556.8	2545.6	2526.8	2463.2	2478.2	2470.7	2489.4	2489.4	2538.1	2564.3	2583.0
17.5°	2571.8	2579.2	2545.6	2485.7	2489.4	2504.4	2493.1	2504.4	2564.3	2583.0	2609.2
20°	2575.5	2545.6	2534.3	2496.9	2530.6	2523.1	2519.3	2541.8	2560.5	2594.2	2624.2
22.5°	2568.0	2579.2	2534.3	2530.6	2560.5	2575.5	2583.0	2556.8	2579.2	2601.7	2627.9
25°	2631.7	2590.5	2579.2	2571.8	2586.7	2601.7	2594.2	2616.7	2616.7	2642.9	2676.6
27.5°	2803.8	2807.6	2785.1	2695.3	2665.3	2631.7	2646.6	2706.5	2777.6	2833.8	2845.0
30°	2882.5	2897.4	2957.3	2942.4	2931.1	2942.4	2938.6	2953.6	2961.1	2964.8	2953.6
32.5°	2953.6	2946.1	2919.9	2987.3	3208.1	3376.6	3215.6	2994.8	2946.1	2931.1	2946.1
35°	3211.9	3211.9	3155.7	3069.6	3185.7	3226.9	3152.0	3047.2	3107.1	3230.6	3238.1
37.5°	3545.1	3496.4	3518.9	3507.6	3380.3	3290.5	3421.5	3488.9	3500.1	3496.4	3533.8
40°	3743.5	3709.8	3676.1	3736.0	3852.0	3934.4	3818.3	3657.4	3698.5	3780.9	3747.2
42.5°	4196.4	4110.3	4117.8	4057.9	4054.2	4028.0	4001.8	4013.0	4072.9	4166.5	4181.4
45°	4660.6	4701.8	4675.6	4563.3	4615.7	4615.7	4540.8	4597.0	4626.9	4735.5	4750.4
47.5°	5386.8	5368.1	5379.3	5278.3	5274.5	5300.7	5274.5	5278.3	5371.9	5364.4	5323.2
50°	6236.6	6289.0	6304.0	6255.3	6195.4	6184.2	6143.0	6195.4	6251.6	6255.3	6221.6
52.5°	7412.0	7468.2	7468.2	7483.2	7558.0	7520.6	7513.1	7516.9	7408.3	7333.4	7370.9
55°	8894.5	8913.2	8976.8	9107.8	9336.2	9366.1	9223.9	9160.2	8961.8	8842.0	8935.6
57.5°	10358.1	10433.0	10609.0	10949.6	11230.4	11537.3	11125.6	10706.3	10317.0	10126.1	10159.7
60°	11574.8	11683.3	12020.2	12495.7	13274.3	13555.1	12858.8	12140.0	11350.2	10766.2	11002.0
62.5°	12147.5	12316.0	12600.5	13562.5	14730.5	15134.8	14112.8	12806.4	11608.5	11046.9	11035.7
64°	12151.3	12177.5	12746.5	13783.4	14985.1	15767.4	14416.1	12806.4	11672.1	10979.6	11106.8
65°	11900.5	12009.0	12559.3	13581.3	14824.1	15819.9	14311.2	12630.4	11410.1	10871.0	10930.9
67.5°	10762.4	10758.7	11267.8	12282.3	14008.0	15224.6	13420.3	11645.9	10762.4	10178.5	10249.6
70°	8164.5	8295.5	8782.2	10028.7	12121.3	13424.0	11735.7	9897.7	8797.1	8329.2	8303.0
72.5°	4885.2	5057.4	5678.8	7198.7	9414.8	10998.3	9313.7	7322.2	5997.0	5255.8	5274.5
75°	2227.4	2354.6	2781.4	4020.5	6274.0	8040.9	6311.5	4233.9	3035.9	2564.3	2496.9
77.5°	625.2	703.8	939.6	1845.5	3444.0	4821.6	3541.3	2040.2	1325.2	1100.6	1078.1
80°	280.8	295.7	333.2	449.2	1093.1	2126.3	1463.7	748.7	497.9	411.8	393.1
82.5°	153.5	164.7	217.1	232.1	310.7	565.3	482.9	351.9	299.5	239.6	232.1
85°	86.1	89.8	123.5	123.5	149.7	164.7	175.9	187.2	183.4	134.8	131.0
87.5°	26.2	29.9	37.4	37.4	37.4	37.4	59.9	82.4	89.8	63.6	63.6
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)