

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: P479890

Luminaire Tested: **IFLD-S-SA6D-830-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479890
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-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

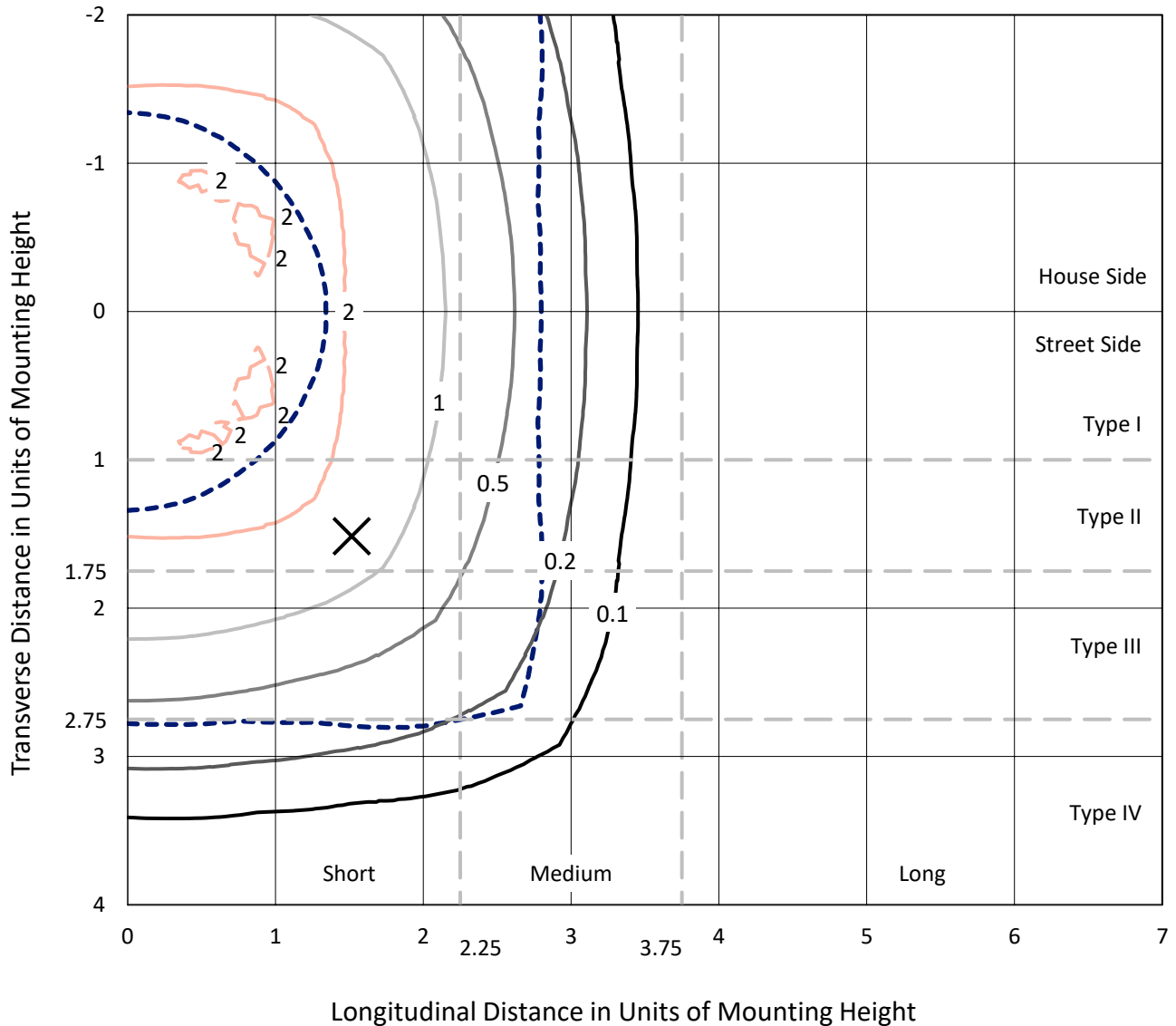
Lumens per Lamp: N/A
Luminaire Lumens: 37282.1 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 368.2
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

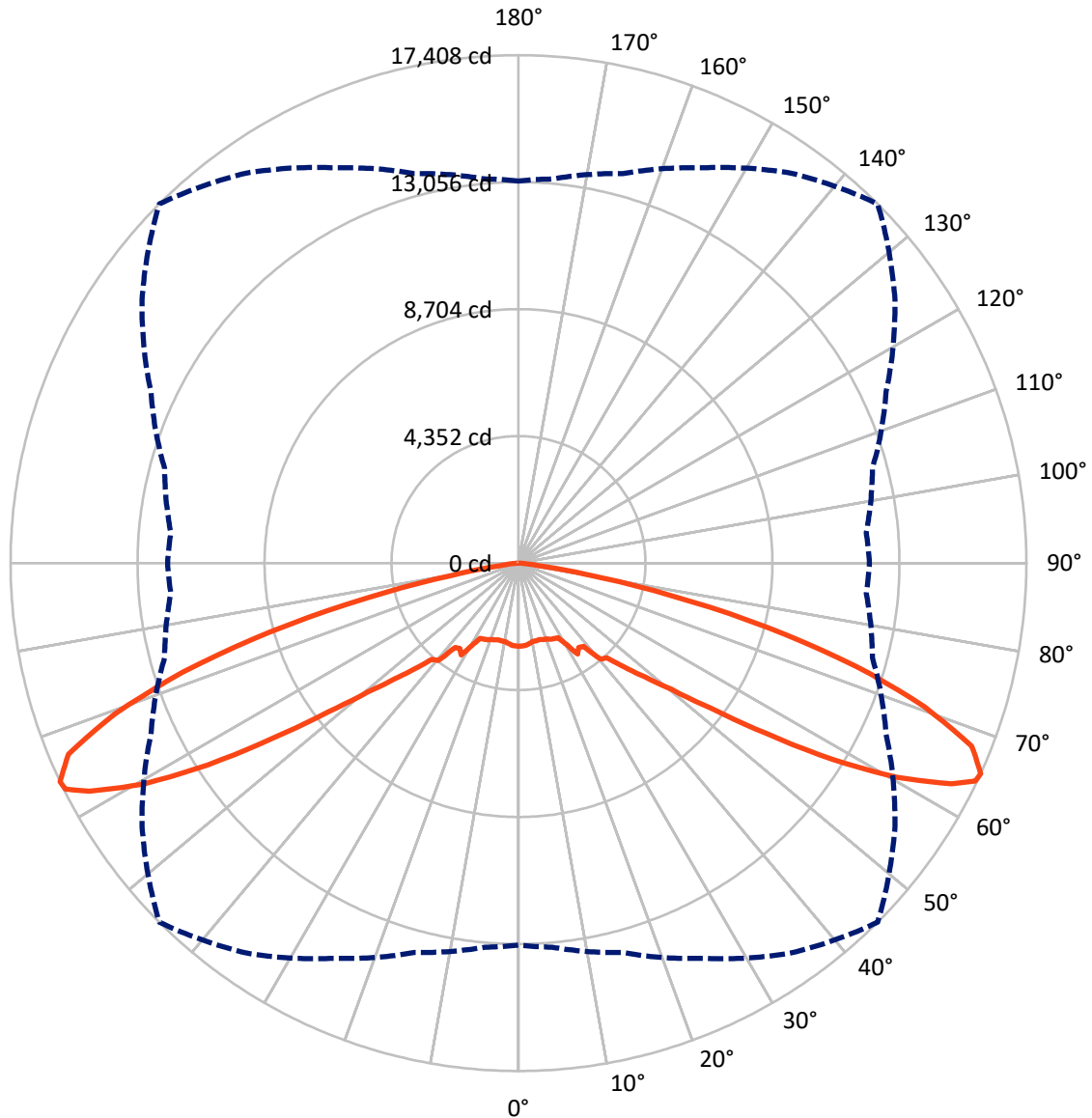
✕ Max cd
 - - - 1/2 Max cd



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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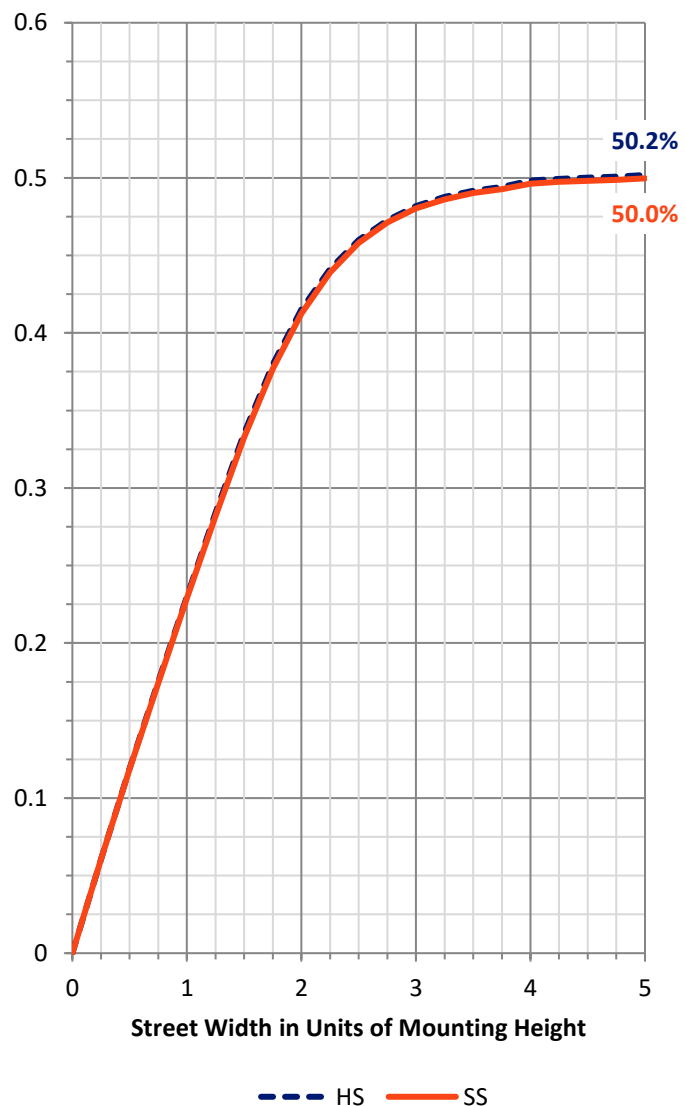
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18641.0	0.0	18641.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	18641.0	0.0	18641.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	37282.1	0.0	37282.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.5	0.7
10°-20°	785.8	2.1
20°-30°	1360.1	3.6
30°-40°	2261.6	6.1
40°-50°	4080.2	10.9
50°-60°	9089.3	24.4
60°-70°	13546.0	36.3
70°-80°	5613.6	15.1
80°-90°	278.0	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°	37282.1	100.0
0°-180°	37282.1	100.0

Coefficient of Utilization



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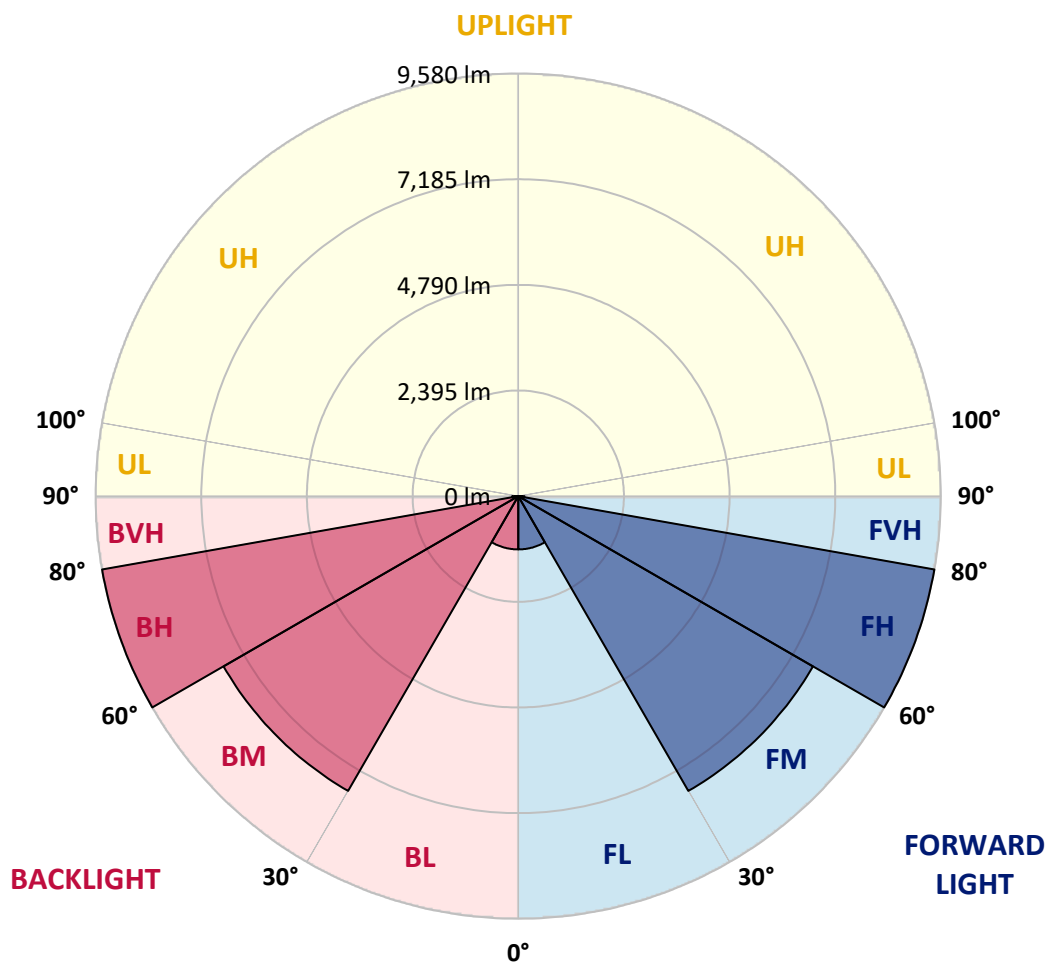
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1206.7	3.2			
FM (30°-60°)	7715.5	20.7			
FH (60°-80°)	9579.8	25.7			G4/12000
FVH (80°-90°)	139.0	0.4			G2/225
BL (0°-30°)	1206.7	3.2	B3/2500		
BM (30°-60°)	7715.5	20.7	B4/8500		
BH (60°-80°)	9579.8	25.7	B5		G4/12000
BVH (80°-90°)	139.0	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°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	2817.5	2825.7	2821.6	2821.6	2834.0	2842.2	2846.3	2887.5	2871.0	2883.4	2871.0
5°	2825.7	2825.7	2834.0	2825.7	2834.0	2825.7	2834.0	2821.6	2834.0	2842.2	2854.6
7.5°	2809.3	2801.0	2788.7	2788.7	2784.5	2776.3	2763.9	2796.9	2780.4	2792.8	2813.4
10°	2813.4	2801.0	2759.8	2768.1	2731.0	2731.0	2739.2	2739.2	2776.3	2817.5	2829.8
12.5°	2813.4	2788.7	2776.3	2722.8	2722.8	2726.9	2747.5	2755.7	2780.4	2796.9	2838.1
15°	2813.4	2801.0	2780.4	2710.4	2726.9	2718.6	2739.2	2739.2	2792.8	2821.6	2842.2
17.5°	2829.8	2838.1	2801.0	2735.1	2739.2	2755.7	2743.3	2755.7	2821.6	2842.2	2871.0
20°	2834.0	2801.0	2788.7	2747.5	2784.5	2776.3	2772.2	2796.9	2817.5	2854.6	2887.5
22.5°	2825.7	2838.1	2788.7	2784.5	2817.5	2834.0	2842.2	2813.4	2838.1	2862.8	2891.6
25°	2895.8	2850.4	2838.1	2829.8	2846.3	2862.8	2854.6	2879.3	2879.3	2908.1	2945.2
27.5°	3085.2	3089.4	3064.6	2965.8	2932.8	2895.8	2912.2	2978.1	3056.4	3118.2	3130.5
30°	3171.7	3188.2	3254.1	3237.6	3225.3	3237.6	3233.5	3250.0	3258.2	3262.4	3250.0
32.5°	3250.0	3241.8	3212.9	3287.1	3530.1	3715.5	3538.3	3295.3	3241.8	3225.3	3241.8
35°	3534.2	3534.2	3472.4	3377.7	3505.4	3550.7	3468.3	3353.0	3418.9	3554.8	3563.1
37.5°	3900.8	3847.3	3872.0	3859.6	3719.6	3620.7	3764.9	3839.0	3851.4	3847.3	3888.5
40°	4119.1	4082.1	4045.0	4110.9	4238.6	4329.2	4201.5	4024.4	4069.7	4160.3	4123.3
42.5°	4617.6	4522.8	4531.1	4465.1	4461.0	4432.2	4403.4	4415.7	4481.6	4584.6	4601.1
45°	5128.3	5173.6	5144.8	5021.2	5078.9	5078.9	4996.5	5058.3	5091.3	5210.7	5227.2
47.5°	5927.4	5906.8	5919.2	5808.0	5803.9	5832.7	5803.9	5808.0	5911.0	5902.7	5857.4
50°	6862.5	6920.2	6936.6	6883.1	6817.2	6804.8	6759.5	6817.2	6879.0	6883.1	6846.0
52.5°	8155.9	8217.7	8217.7	8234.2	8316.5	8275.4	8267.1	8271.2	8151.8	8069.4	8110.6
55°	9787.1	9807.7	9877.7	10021.9	10273.1	10306.1	10149.6	10079.5	9861.2	9729.4	9832.4
57.5°	11397.7	11480.0	11673.6	12048.5	12357.4	12695.2	12242.1	11780.7	11352.3	11142.3	11179.3
60°	12736.4	12855.8	13226.6	13749.7	14606.5	14915.4	14149.2	13358.4	12489.2	11846.6	12106.2
62.5°	13366.6	13552.0	13865.0	14923.6	16208.8	16653.7	15529.2	14091.6	12773.5	12155.6	12143.2
64°	13370.7	13399.6	14025.7	15166.7	16488.9	17349.8	15862.8	14091.6	12843.5	12081.4	12221.5
65°	13094.7	13214.2	13819.7	14944.2	16311.8	17407.5	15747.5	13898.0	12555.1	11962.0	12027.9
67.5°	11842.5	11838.4	12398.6	13514.9	15413.8	16752.5	14767.1	12814.6	11842.5	11199.9	11278.2
70°	8983.8	9128.0	9663.5	11035.2	13337.8	14771.2	12913.5	10891.0	9680.0	9165.1	9136.3
72.5°	5375.5	5565.0	6248.7	7921.1	10359.6	12102.0	10248.4	8057.0	6598.9	5783.3	5803.9
75°	2450.9	2590.9	3060.5	4424.0	6903.7	8847.9	6944.9	4658.7	3340.6	2821.6	2747.5
77.5°	687.9	774.4	1033.9	2030.7	3789.6	5305.5	3896.7	2244.9	1458.2	1211.0	1186.3
80°	308.9	325.4	366.6	494.3	1202.8	2339.7	1610.6	823.8	547.8	453.1	432.5
82.5°	168.9	181.2	238.9	255.4	341.9	622.0	531.4	387.2	329.5	263.6	255.4
85°	94.7	98.9	135.9	135.9	164.8	181.2	193.6	206.0	201.8	148.3	144.2
87.5°	28.8	33.0	41.2	41.2	41.2	41.2	65.9	90.6	98.9	70.0	70.0
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)