

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: P479852

Luminaire Tested: **IFLD-S-SA6E-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479852
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (96) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

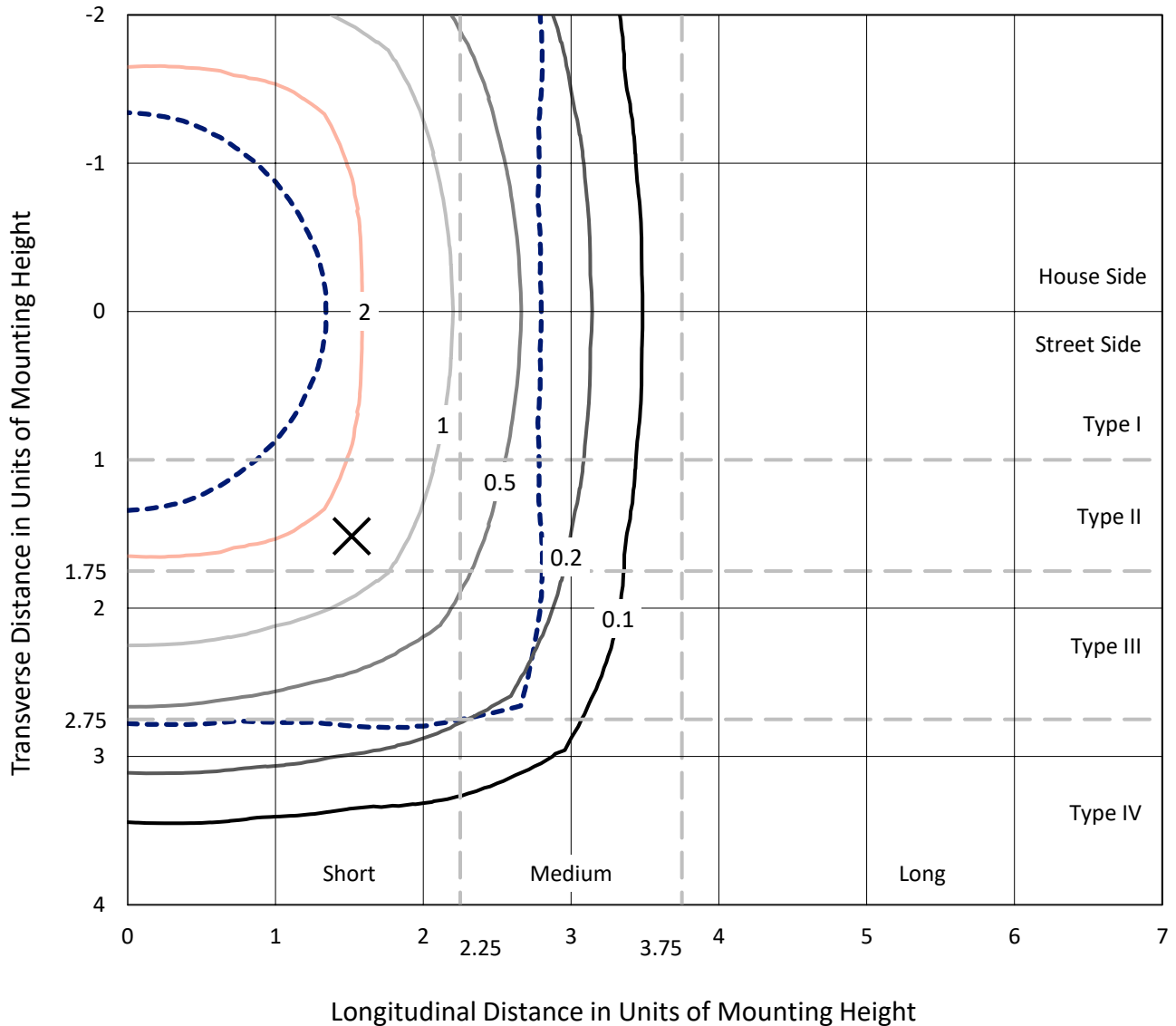
Lumens per Lamp: N/A
Luminaire Lumens: 39915.1 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 464.2
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

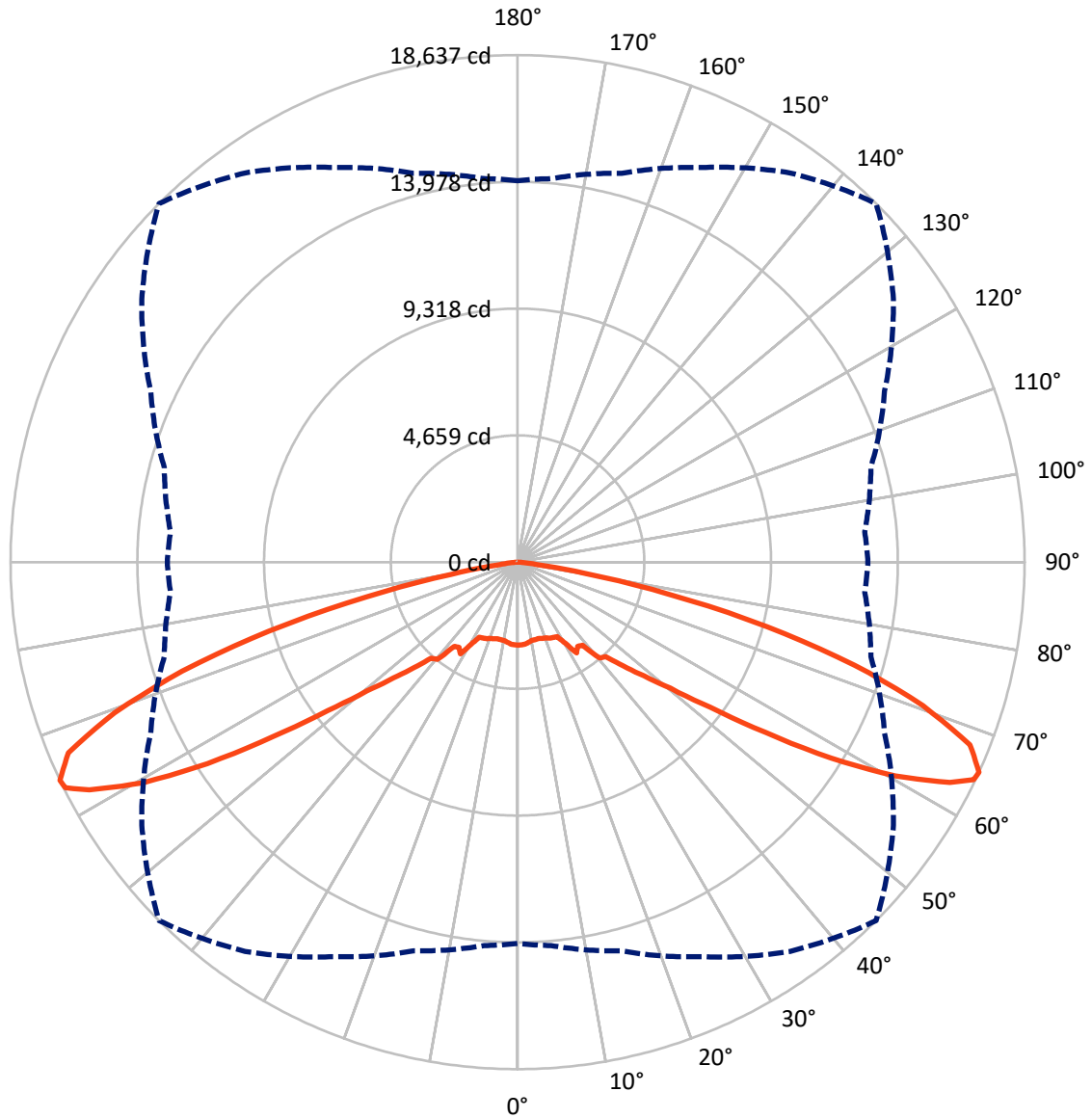
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.4 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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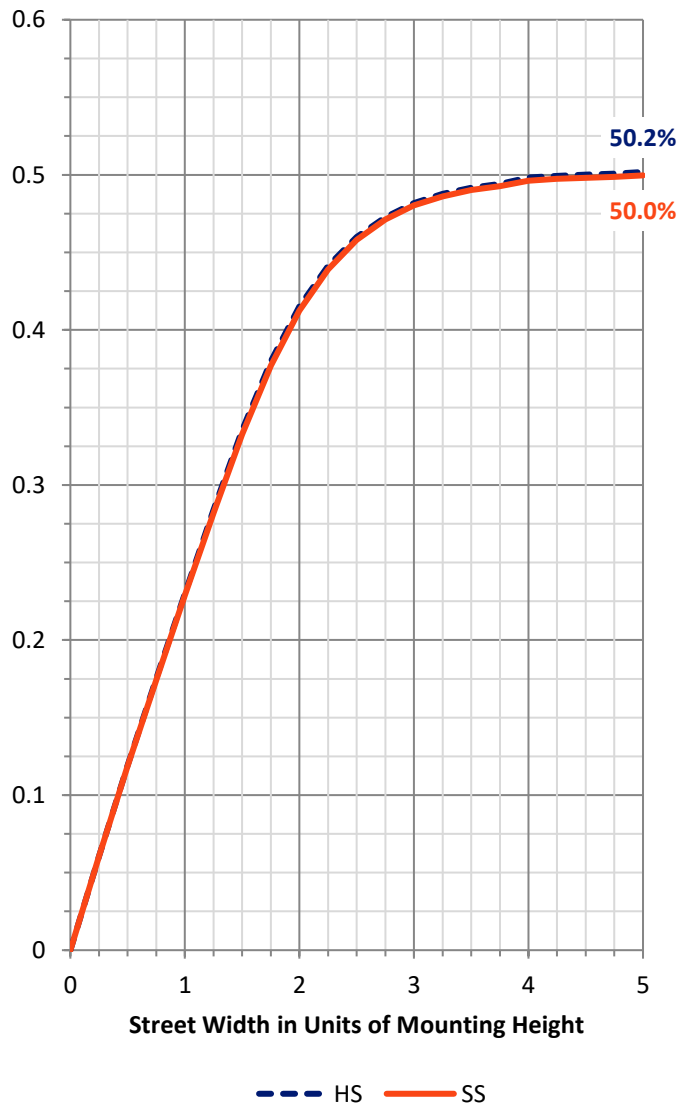
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19957.5	0.0	19957.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	19957.5	0.0	19957.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	39915.1	0.0	39915.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.4	0.7
10°-20°	841.2	2.1
20°-30°	1456.1	3.6
30°-40°	2421.3	6.1
40°-50°	4368.4	10.9
50°-60°	9731.2	24.4
60°-70°	14502.7	36.3
70°-80°	6010.1	15.1
80°-90°	297.7	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°	39915.1	100.0
0°-180°	39915.1	100.0

Coefficient of Utilization



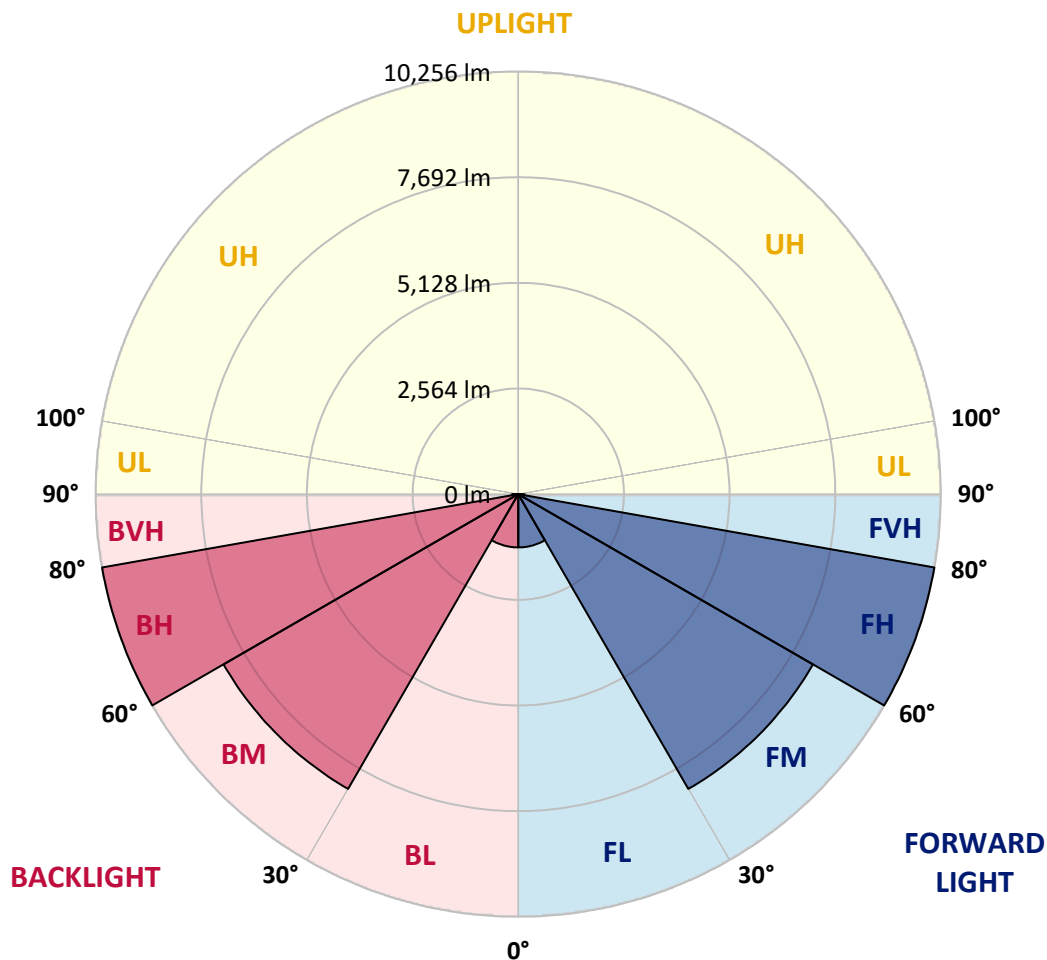
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.9	3.2			
FM (30°-60°)	8260.4	20.7			
FH (60°-80°)	10256.4	25.7			G4/12000
FVH (80°-90°)	148.8	0.4			G2/225
BL (0°-30°)	1291.9	3.2	B3/2500		
BM (30°-60°)	8260.4	20.7	B4/8500		
BH (60°-80°)	10256.4	25.7	B5		G4/12000
BVH (80°-90°)	148.8	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°	3051.8	3051.8	3051.8	3051.8	3051.8	3051.8	3051.8	3051.8	3051.8	3051.8	3051.8
2.5°	3016.5	3025.3	3020.9	3020.9	3034.1	3042.9	3047.3	3091.4	3073.8	3087.0	3073.8
5°	3025.3	3025.3	3034.1	3025.3	3034.1	3025.3	3034.1	3020.9	3034.1	3042.9	3056.2
7.5°	3007.6	2998.8	2985.6	2985.6	2981.2	2972.4	2959.1	2994.4	2976.8	2990.0	3012.1
10°	3012.1	2998.8	2954.7	2963.5	2923.9	2923.9	2932.7	2932.7	2972.4	3016.5	3029.7
12.5°	3012.1	2985.6	2972.4	2915.0	2915.0	2919.4	2941.5	2950.3	2976.8	2994.4	3038.5
15°	3012.1	2998.8	2976.8	2901.8	2919.4	2910.6	2932.7	2932.7	2990.0	3020.9	3042.9
17.5°	3029.7	3038.5	2998.8	2928.3	2932.7	2950.3	2937.1	2950.3	3020.9	3042.9	3073.8
20°	3034.1	2998.8	2985.6	2941.5	2981.2	2972.4	2968.0	2994.4	3016.5	3056.2	3091.4
22.5°	3025.3	3038.5	2985.6	2981.2	3016.5	3034.1	3042.9	3012.1	3038.5	3065.0	3095.9
25°	3100.3	3051.8	3038.5	3029.7	3047.3	3065.0	3056.2	3082.6	3082.6	3113.5	3153.2
27.5°	3303.1	3307.5	3281.1	3175.2	3140.0	3100.3	3117.9	3188.5	3272.3	3338.4	3351.6
30°	3395.7	3413.4	3483.9	3466.3	3453.1	3466.3	3461.9	3479.5	3488.3	3492.8	3479.5
32.5°	3479.5	3470.7	3439.8	3519.2	3779.4	3977.9	3788.2	3528.0	3470.7	3453.1	3470.7
35°	3783.8	3783.8	3717.7	3616.2	3752.9	3801.5	3713.3	3589.8	3660.3	3805.9	3814.7
37.5°	4176.3	4119.0	4145.4	4132.2	3982.3	3876.4	4030.8	4110.2	4123.4	4119.0	4163.1
40°	4410.0	4370.4	4330.7	4401.2	4537.9	4635.0	4498.2	4308.6	4357.1	4454.1	4414.5
42.5°	4943.7	4842.2	4851.0	4780.5	4776.1	4745.2	4714.3	4727.6	4798.1	4908.4	4926.0
45°	5490.5	5539.0	5508.1	5375.8	5437.6	5437.6	5349.4	5415.5	5450.8	5578.7	5596.3
47.5°	6346.1	6324.0	6337.2	6218.2	6213.8	6244.6	6213.8	6218.2	6328.4	6319.6	6271.1
50°	7347.1	7408.9	7426.5	7369.2	7298.6	7285.4	7236.9	7298.6	7364.8	7369.2	7329.5
52.5°	8731.9	8798.0	8798.0	8815.7	8903.9	8859.8	8851.0	8855.4	8727.5	8639.3	8683.4
55°	10478.3	10500.3	10575.3	10729.6	10998.6	11033.9	10866.3	10791.4	10557.6	10416.5	10526.8
57.5°	12202.6	12290.8	12498.1	12899.4	13230.1	13591.8	13106.7	12612.7	12154.1	11929.2	11968.9
60°	13635.9	13763.7	14160.7	14720.7	15638.0	15968.8	15148.5	14301.8	13371.3	12683.3	12961.1
62.5°	14310.6	14509.0	14844.2	15977.6	17353.5	17829.8	16625.9	15086.8	13675.5	13014.0	13000.8
64°	14315.0	14345.9	15016.2	16237.8	17653.4	18575.1	16983.1	15086.8	13750.5	12934.7	13084.6
65°	14019.5	14147.4	14795.7	15999.6	17463.8	18636.8	16859.6	14879.5	13441.8	12806.8	12877.3
67.5°	12678.9	12674.5	13274.2	14469.4	16502.4	17935.6	15810.0	13719.6	12678.9	11990.9	12074.7
70°	9618.3	9772.7	10346.0	11814.5	14279.7	15814.4	13825.5	11660.2	10363.6	9812.3	9781.5
72.5°	5755.1	5958.0	6690.0	8480.5	11091.3	12956.7	10972.2	8626.0	7064.9	6191.7	6213.8
75°	2624.0	2773.9	3276.7	4736.4	7391.2	9472.8	7435.3	4987.8	3576.5	3020.9	2941.5
77.5°	736.5	829.1	1106.9	2174.2	4057.2	5680.1	4171.9	2403.5	1561.2	1296.6	1270.1
80°	330.8	348.4	392.5	529.2	1287.7	2504.9	1724.3	882.0	586.5	485.1	463.1
82.5°	180.8	194.0	255.8	273.4	366.0	665.9	568.9	414.5	352.8	282.2	273.4
85°	101.4	105.8	145.5	145.5	176.4	194.0	207.3	220.5	216.1	158.8	154.4
87.5°	30.9	35.3	44.1	44.1	44.1	44.1	70.6	97.0	105.8	75.0	75.0
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)