

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: P479618

Luminaire Tested: **IFLD-S-SA6E-727-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479618  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-727-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (96) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

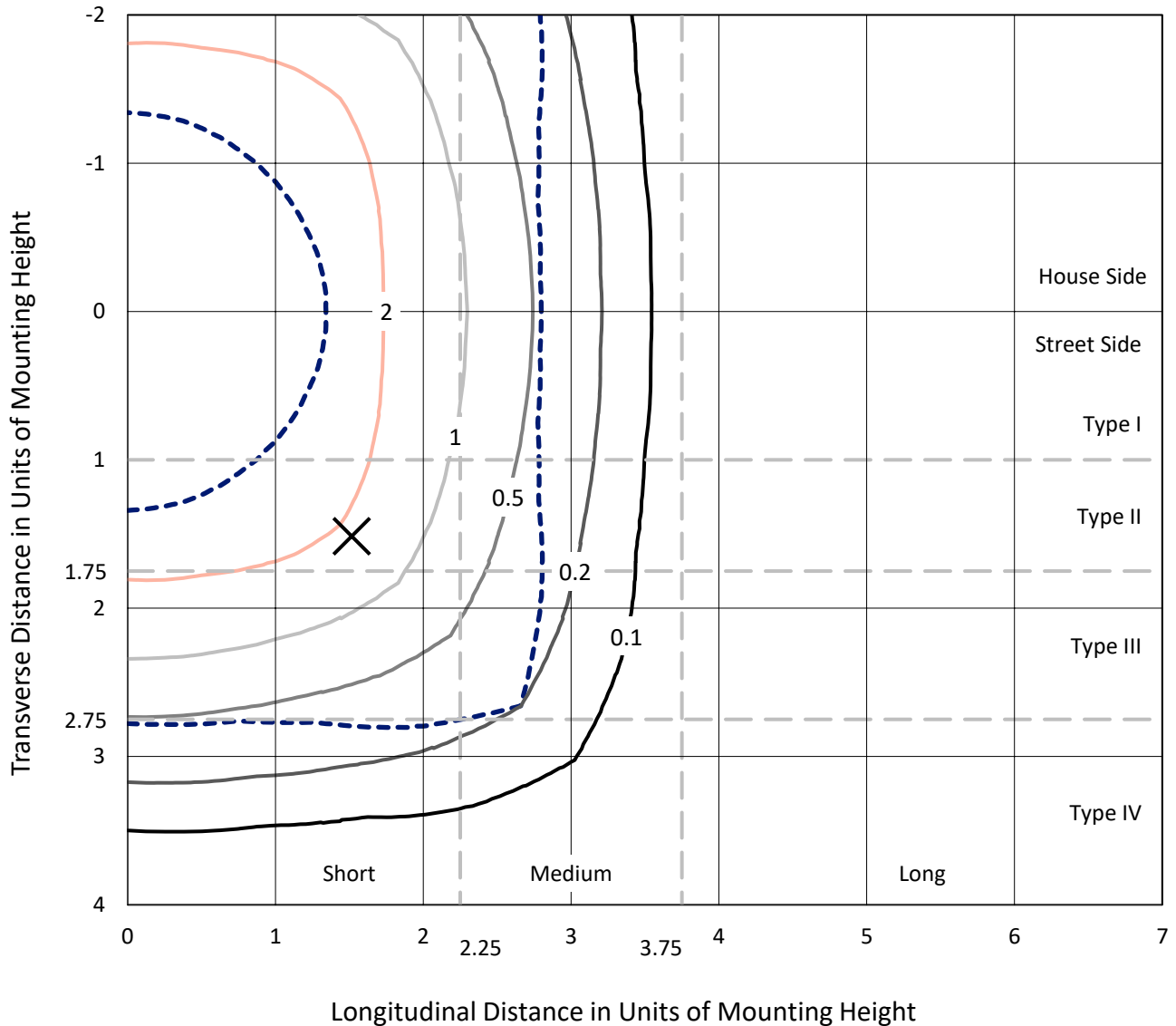
Lumens per Lamp: N/A  
Luminaire Lumens: 45410.1 lumens  
Efficiency: N/A  
Efficacy: 97.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

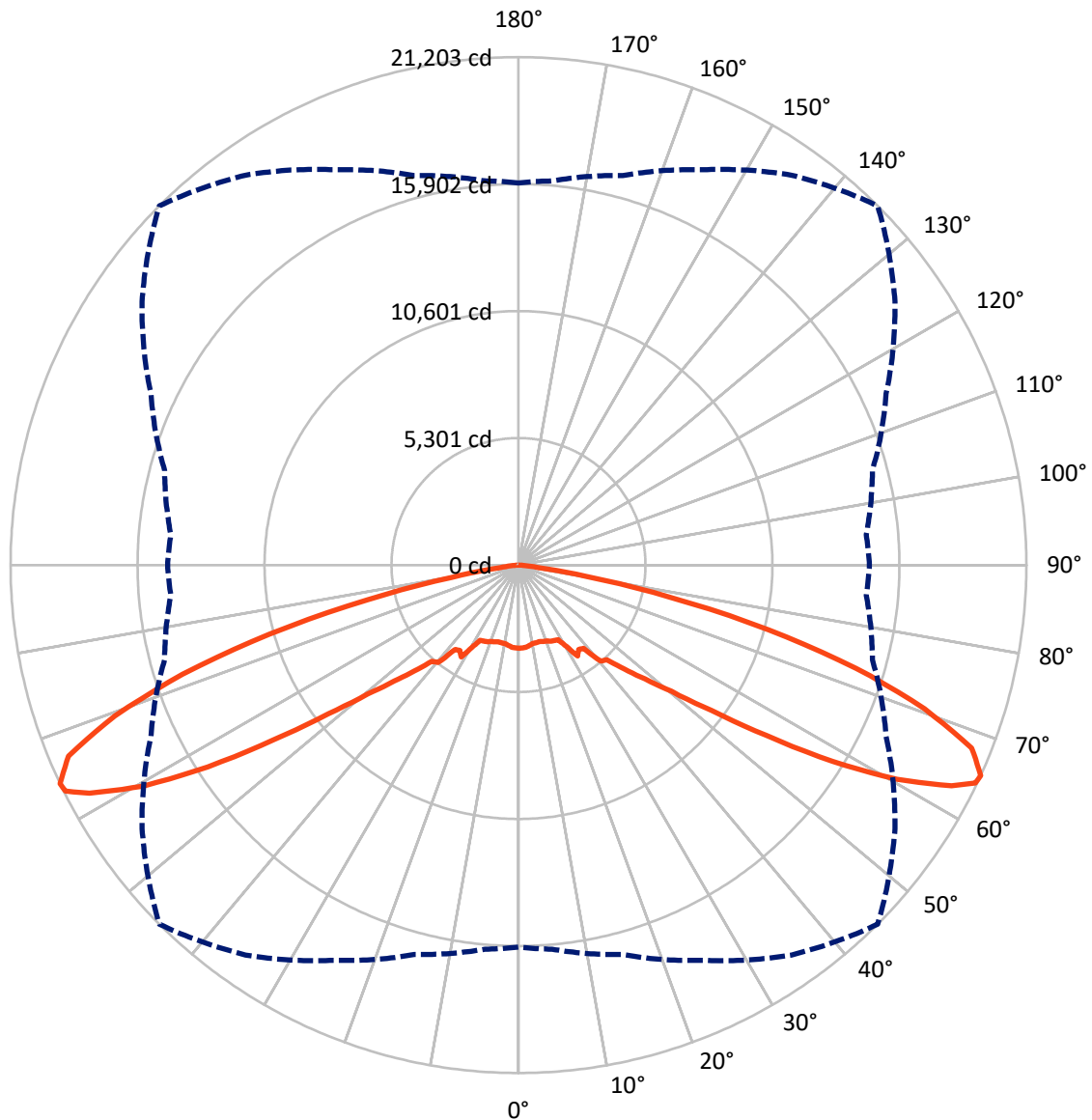
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.9 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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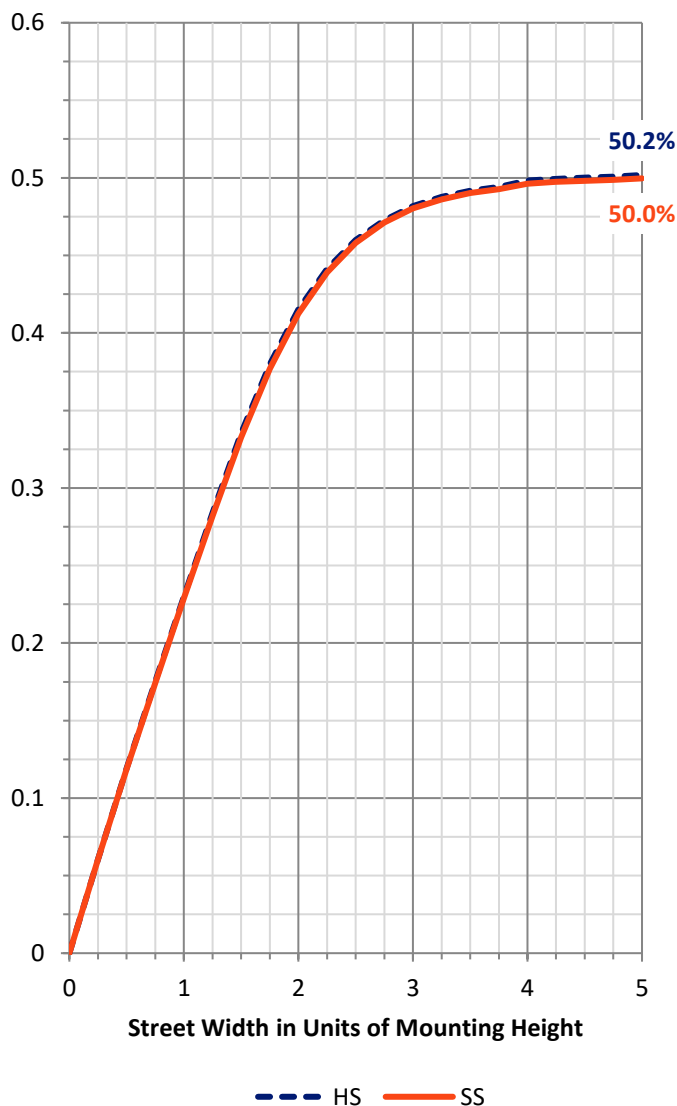
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22705.1	0.0	22705.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	22705.1	0.0	22705.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	45410.1	0.0	45410.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	325.8	0.7
10°-20°	957.1	2.1
20°-30°	1656.6	3.6
30°-40°	2754.6	6.1
40°-50°	4969.7	10.9
50°-60°	11070.9	24.4
60°-70°	16499.2	36.3
70°-80°	6837.5	15.1
80°-90°	338.7	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°	45410.1	100.0
0°-180°	45410.1	100.0

**Coefficient of Utilization**



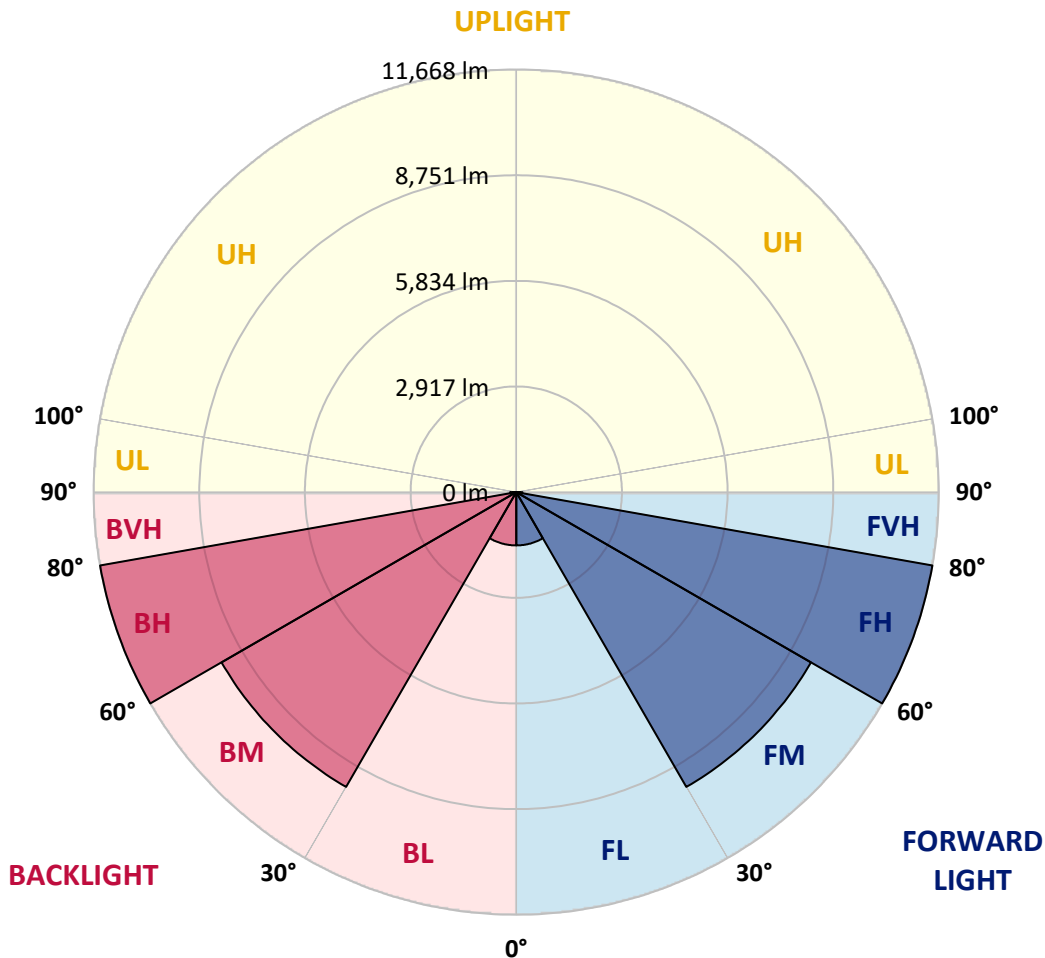
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1469.7	3.2			
FM (30°-60°)	9397.6	20.7			
FH (60°-80°)	11668.3	25.7			G4/12000
FVH (80°-90°)	169.3	0.4			G2/225
BL (0°-30°)	1469.7	3.2	B3/2500		
BM (30°-60°)	9397.6	20.7	B5		
BH (60°-80°)	11668.3	25.7	B5		G4/12000
BVH (80°-90°)	169.3	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°	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9	3471.9
2.5°	3431.7	3441.8	3436.8	3436.8	3451.8	3461.8	3466.9	3517.0	3497.0	3512.0	3497.0
5°	3441.8	3441.8	3451.8	3441.8	3451.8	3441.8	3451.8	3436.8	3451.8	3461.8	3476.9
7.5°	3421.7	3411.7	3396.6	3396.6	3391.6	3381.6	3366.5	3406.7	3386.6	3401.6	3426.7
10°	3426.7	3411.7	3361.5	3371.5	3326.4	3326.4	3336.4	3336.4	3381.6	3431.7	3446.8
12.5°	3426.7	3396.6	3381.6	3316.3	3316.3	3321.4	3346.5	3356.5	3386.6	3406.7	3456.8
15°	3426.7	3411.7	3386.6	3301.3	3321.4	3311.3	3336.4	3336.4	3401.6	3436.8	3461.8
17.5°	3446.8	3456.8	3411.7	3331.4	3336.4	3356.5	3341.4	3356.5	3436.8	3461.8	3497.0
20°	3451.8	3411.7	3396.6	3346.5	3391.6	3381.6	3376.6	3406.7	3431.7	3476.9	3517.0
22.5°	3441.8	3456.8	3396.6	3391.6	3431.7	3451.8	3461.8	3426.7	3456.8	3486.9	3522.1
25°	3527.1	3471.9	3456.8	3446.8	3466.9	3486.9	3476.9	3507.0	3507.0	3542.1	3587.3
27.5°	3757.9	3762.9	3732.8	3612.4	3572.2	3527.1	3547.1	3627.4	3722.7	3798.0	3813.0
30°	3863.2	3883.3	3963.6	3943.5	3928.4	3943.5	3938.5	3958.5	3968.6	3973.6	3958.5
32.5°	3958.5	3948.5	3913.4	4003.7	4299.7	4525.5	4309.7	4013.7	3948.5	3928.4	3948.5
35°	4304.7	4304.7	4229.5	4114.1	4269.6	4324.8	4224.5	4084.0	4164.2	4329.8	4339.8
37.5°	4751.3	4686.0	4716.1	4701.1	4530.5	4410.1	4585.7	4676.0	4691.1	4686.0	4736.2
40°	5017.2	4972.0	4926.9	5007.1	5162.7	5273.0	5117.5	4901.8	4957.0	5067.3	5022.2
42.5°	5624.2	5508.8	5518.9	5438.6	5433.6	5398.5	5363.4	5378.4	5458.7	5584.1	5604.2
45°	6246.4	6301.6	6266.4	6115.9	6186.2	6186.2	6085.8	6161.1	6201.2	6346.7	6366.8
47.5°	7219.7	7194.6	7209.7	7074.2	7069.2	7104.3	7069.2	7074.2	7199.6	7189.6	7134.4
50°	8358.6	8428.8	8448.9	8383.7	8303.4	8288.4	8233.2	8303.4	8378.7	8383.7	8338.5
52.5°	9934.0	10009.2	10009.2	10029.3	10129.7	10079.5	10069.5	10074.5	9929.0	9828.6	9878.8
55°	11920.8	11945.9	12031.2	12206.8	12512.8	12553.0	12362.3	12277.0	12011.1	11850.5	11976.0
57.5°	13882.5	13982.8	14218.7	14675.2	15051.5	15462.9	14911.0	14349.1	13827.3	13571.4	13616.6
60°	15513.1	15658.6	16110.1	16747.3	17790.9	18167.2	17234.0	16270.7	15212.1	14429.4	14745.5
62.5°	16280.7	16506.5	16887.8	18177.2	19742.6	20284.4	18914.7	17163.7	15558.2	14805.7	14790.6
64°	16285.7	16320.8	17083.5	18473.2	20083.7	21132.3	19321.1	17163.7	15643.5	14715.4	14885.9
65°	15949.6	16095.1	16832.6	18202.3	19868.0	21202.5	19180.6	16927.9	15292.3	14569.9	14650.1
67.5°	14424.4	14419.3	15101.7	16461.3	18774.2	20404.8	17986.5	15608.4	14424.4	13641.7	13737.0
70°	10942.4	11118.0	11770.3	13441.0	16245.6	17991.6	15728.8	13265.4	11790.3	11163.2	11128.1
72.5°	6547.4	6778.2	7611.0	9648.0	12618.2	14740.4	12482.7	9813.6	8037.5	7044.1	7069.2
75°	2985.2	3155.8	3727.8	5388.4	8408.8	10776.9	8458.9	5674.4	4068.9	3436.8	3346.5
77.5°	837.9	943.2	1259.3	2473.5	4615.8	6462.1	4746.2	2734.4	1776.1	1475.0	1444.9
80°	376.3	396.4	446.5	602.1	1465.0	2849.8	1961.7	1003.4	667.3	551.9	526.8
82.5°	205.7	220.8	291.0	311.1	416.4	757.6	647.2	471.6	401.4	321.1	311.1
85°	115.4	120.4	165.6	165.6	200.7	220.8	235.8	250.9	245.8	180.6	175.6
87.5°	35.1	40.1	50.2	50.2	50.2	50.2	80.3	110.4	120.4	85.3	85.3
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)