

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: P479702

Luminaire Tested: **IFLD-L-SA7A-735-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479702  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7A-735-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (112) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

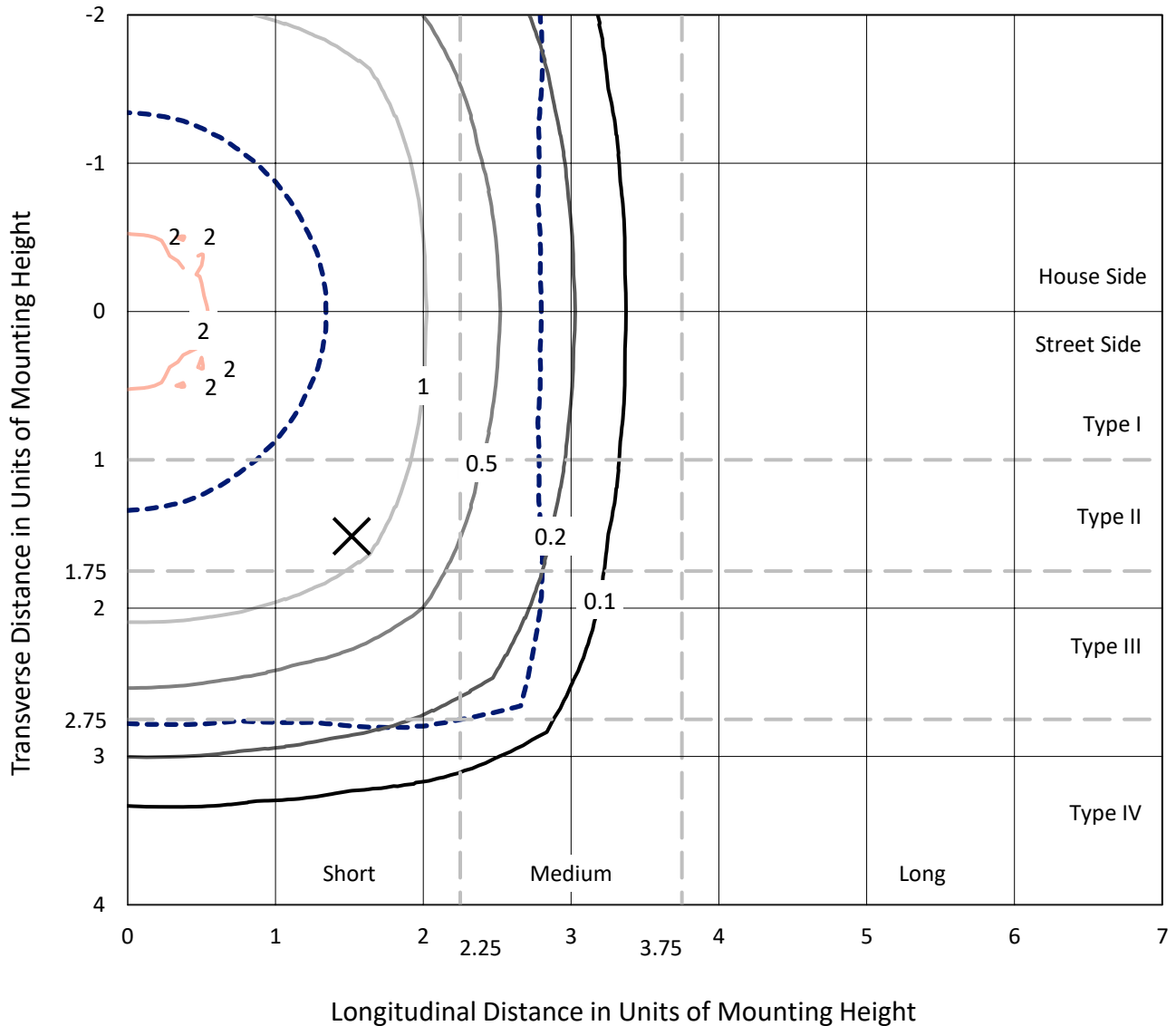
Lumens per Lamp: N/A  
Luminaire Lumens: 31680.2 lumens  
Efficiency: N/A  
Efficacy: 145.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 217.6  
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

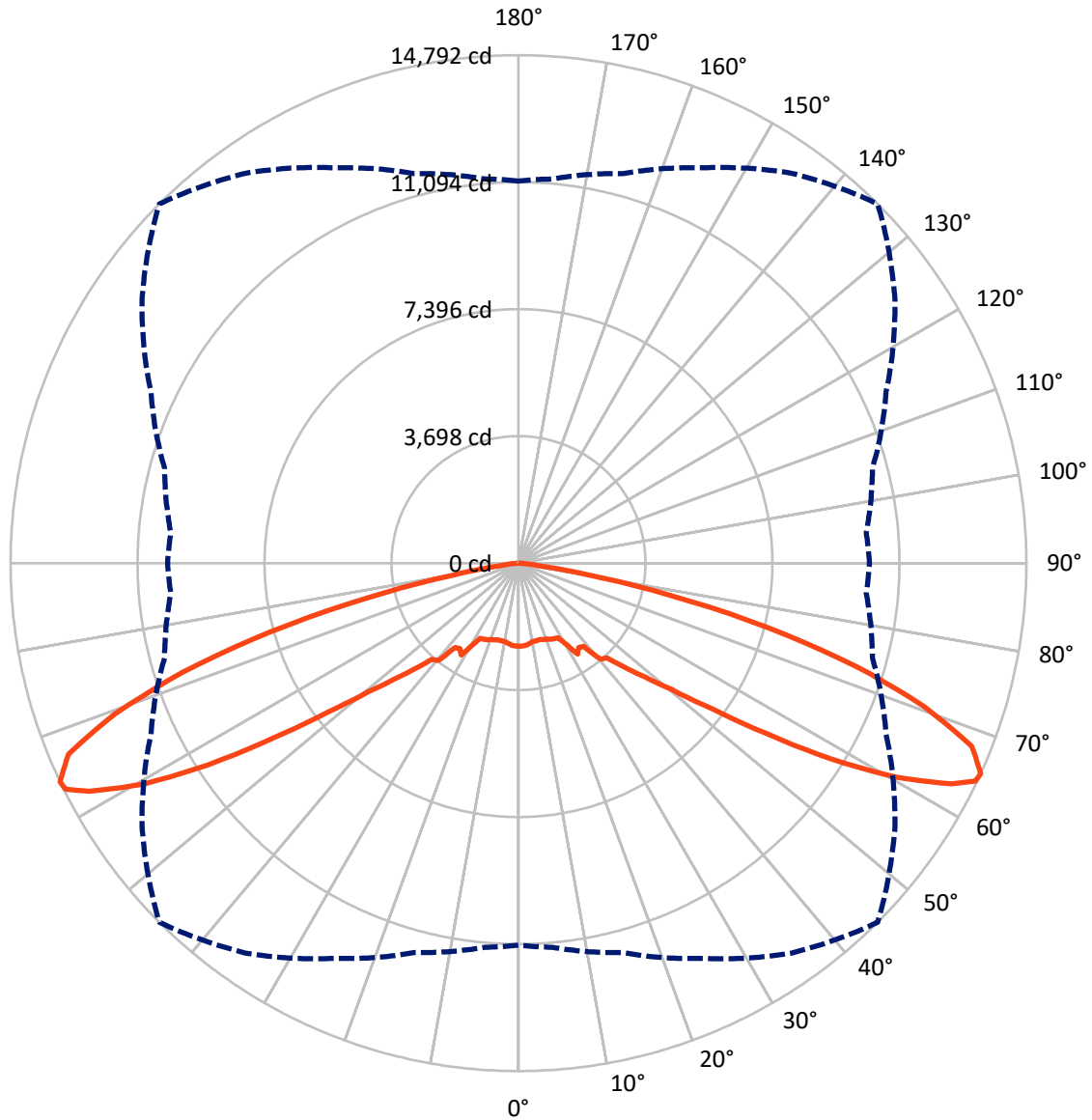
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 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	15840.1	0.0	15840.1
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	15840.1	0.0	15840.1
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	31680.2	0.0	31680.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	227.3	0.7
10°-20°	667.7	2.1
20°-30°	1155.7	3.6
30°-40°	1921.8	6.1
40°-50°	3467.1	10.9
50°-60°	7723.6	24.4
60°-70°	11510.7	36.3
70°-80°	4770.1	15.1
80°-90°	236.3	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°	31680.2	100.0
0°-180°	31680.2	100.0

**Coefficient of Utilization**



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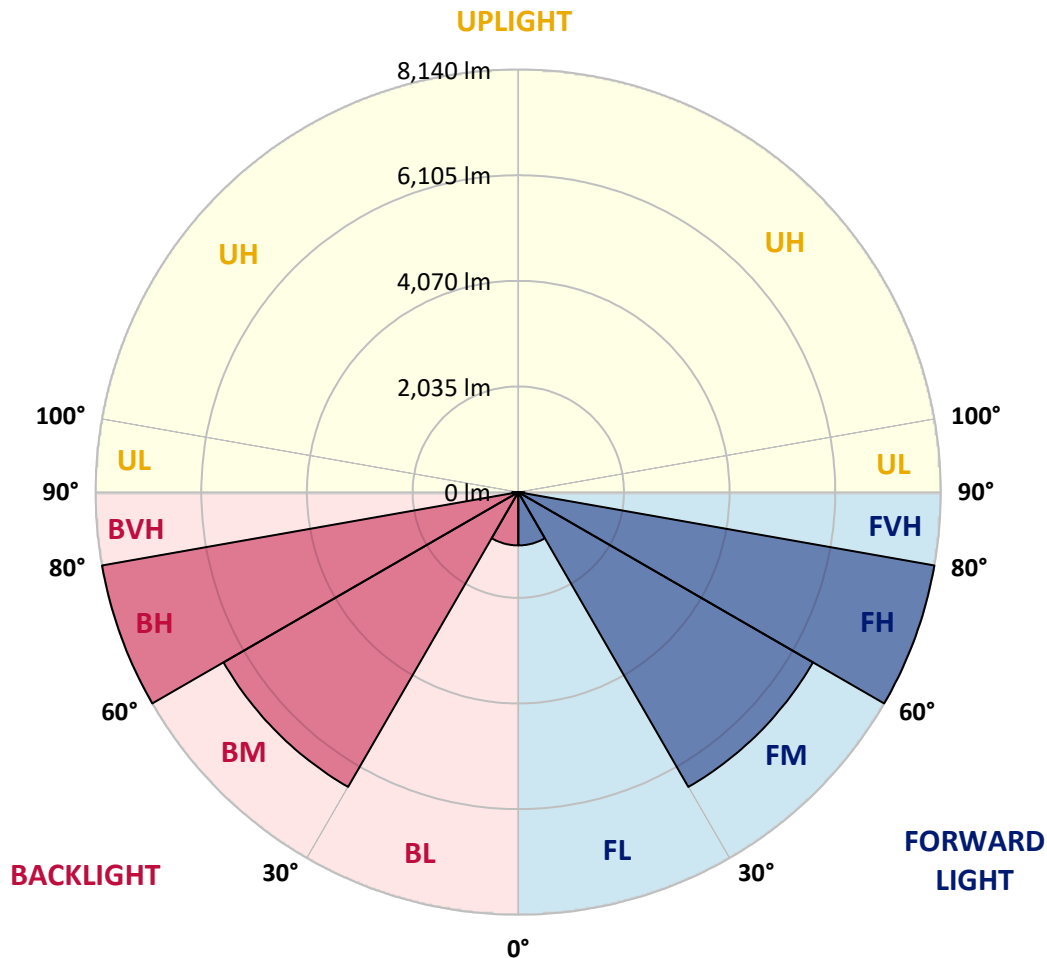
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1025.4	3.2			
FM (30°-60°)	6556.2	20.7			
FH (60°-80°)	8140.4	25.7			G4/12000
FVH (80°-90°)	118.1	0.4			G2/225
BL (0°-30°)	1025.4	3.2	B3/2500		
BM (30°-60°)	6556.2	20.7	B4/8500		
BH (60°-80°)	8140.4	25.7	B5		G4/12000
BVH (80°-90°)	118.1	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°	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1	2422.1
2.5°	2394.1	2401.1	2397.6	2397.6	2408.1	2415.1	2418.6	2453.7	2439.7	2450.2	2439.7
5°	2401.1	2401.1	2408.1	2401.1	2408.1	2401.1	2408.1	2397.6	2408.1	2415.1	2425.7
7.5°	2387.1	2380.1	2369.6	2369.6	2366.1	2359.1	2348.6	2376.6	2362.6	2373.1	2390.6
10°	2390.6	2380.1	2345.1	2352.1	2320.6	2320.6	2327.6	2327.6	2359.1	2394.1	2404.6
12.5°	2390.6	2369.6	2359.1	2313.6	2313.6	2317.1	2334.6	2341.6	2362.6	2376.6	2411.6
15°	2390.6	2380.1	2362.6	2303.1	2317.1	2310.1	2327.6	2327.6	2373.1	2397.6	2415.1
17.5°	2404.6	2411.6	2380.1	2324.1	2327.6	2341.6	2331.1	2341.6	2397.6	2415.1	2439.7
20°	2408.1	2380.1	2369.6	2334.6	2366.1	2359.1	2355.6	2376.6	2394.1	2425.7	2453.7
22.5°	2401.1	2411.6	2369.6	2366.1	2394.1	2408.1	2415.1	2390.6	2411.6	2432.7	2457.2
25°	2460.7	2422.1	2411.6	2404.6	2418.6	2432.7	2425.7	2446.7	2446.7	2471.2	2502.7
27.5°	2621.7	2625.2	2604.2	2520.2	2492.2	2460.7	2474.7	2530.7	2597.2	2649.7	2660.2
30°	2695.2	2709.2	2765.2	2751.2	2740.7	2751.2	2747.7	2761.7	2768.7	2772.2	2761.7
32.5°	2761.7	2754.7	2730.2	2793.2	2999.7	3157.2	3006.7	2800.2	2754.7	2740.7	2754.7
35°	3003.2	3003.2	2950.7	2870.2	2978.7	3017.2	2947.2	2849.2	2905.2	3020.7	3027.7
37.5°	3314.7	3269.2	3290.2	3279.7	3160.7	3076.7	3199.2	3262.2	3272.7	3269.2	3304.2
40°	3500.2	3468.7	3437.2	3493.2	3601.7	3678.7	3570.2	3419.7	3458.2	3535.2	3503.7
42.5°	3923.7	3843.2	3850.2	3794.2	3790.7	3766.2	3741.7	3752.2	3808.2	3895.7	3909.7
45°	4357.8	4396.3	4371.8	4266.8	4315.8	4315.8	4245.8	4298.3	4326.3	4427.8	4441.8
47.5°	5036.8	5019.3	5029.8	4935.3	4931.8	4956.3	4931.8	4935.3	5022.8	5015.8	4977.3
50°	5831.4	5880.4	5894.4	5848.9	5792.9	5782.4	5743.9	5792.9	5845.4	5848.9	5817.4
52.5°	6930.4	6982.9	6982.9	6996.9	7066.9	7031.9	7024.9	7028.4	6926.9	6856.9	6891.9
55°	8316.5	8334.0	8393.5	8516.0	8729.5	8757.5	8624.5	8565.0	8379.5	8267.5	8355.0
57.5°	9685.1	9755.1	9919.6	10238.1	10500.7	10787.7	10402.6	10010.6	9646.6	9468.1	9499.6
60°	10822.7	10924.2	11239.2	11683.7	12411.8	12674.3	12023.2	11351.2	10612.7	10066.6	10287.1
62.5°	11358.2	11515.7	11781.7	12681.3	13773.4	14151.4	13195.8	11974.2	10854.2	10329.1	10318.6
64°	11361.7	11386.2	11918.2	12887.8	14011.4	14742.9	13479.3	11974.2	10913.7	10266.1	10385.1
65°	11127.2	11228.7	11743.2	12698.8	13860.9	14791.9	13381.3	11809.7	10668.7	10164.6	10220.6
67.5°	10063.1	10059.6	10535.7	11484.2	13097.8	14235.4	12548.3	10889.2	10063.1	9517.1	9583.6
70°	7634.0	7756.5	8211.5	9377.1	11333.7	12551.8	10973.2	9254.6	8225.5	7788.0	7763.5
72.5°	4567.8	4728.8	5309.8	6730.9	8803.0	10283.6	8708.5	6846.4	5607.3	4914.3	4931.8
75°	2082.6	2201.6	2600.7	3759.2	5866.4	7518.5	5901.4	3958.7	2838.7	2397.6	2334.6
77.5°	584.5	658.0	878.6	1725.6	3220.2	4508.3	3311.2	1907.6	1239.1	1029.1	1008.1
80°	262.5	276.5	311.5	420.0	1022.1	1988.1	1368.6	700.0	465.5	385.0	367.5
82.5°	143.5	154.0	203.0	217.0	290.5	528.5	451.5	329.0	280.0	224.0	217.0
85°	80.5	84.0	115.5	115.5	140.0	154.0	164.5	175.0	171.5	126.0	122.5
87.5°	24.5	28.0	35.0	35.0	35.0	35.0	56.0	77.0	84.0	59.5	59.5
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)