

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: P479631

Luminaire Tested: **IFLD-L-SA8C-727-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479631  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-727-U-5WQ  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens  
Light Source: (128) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

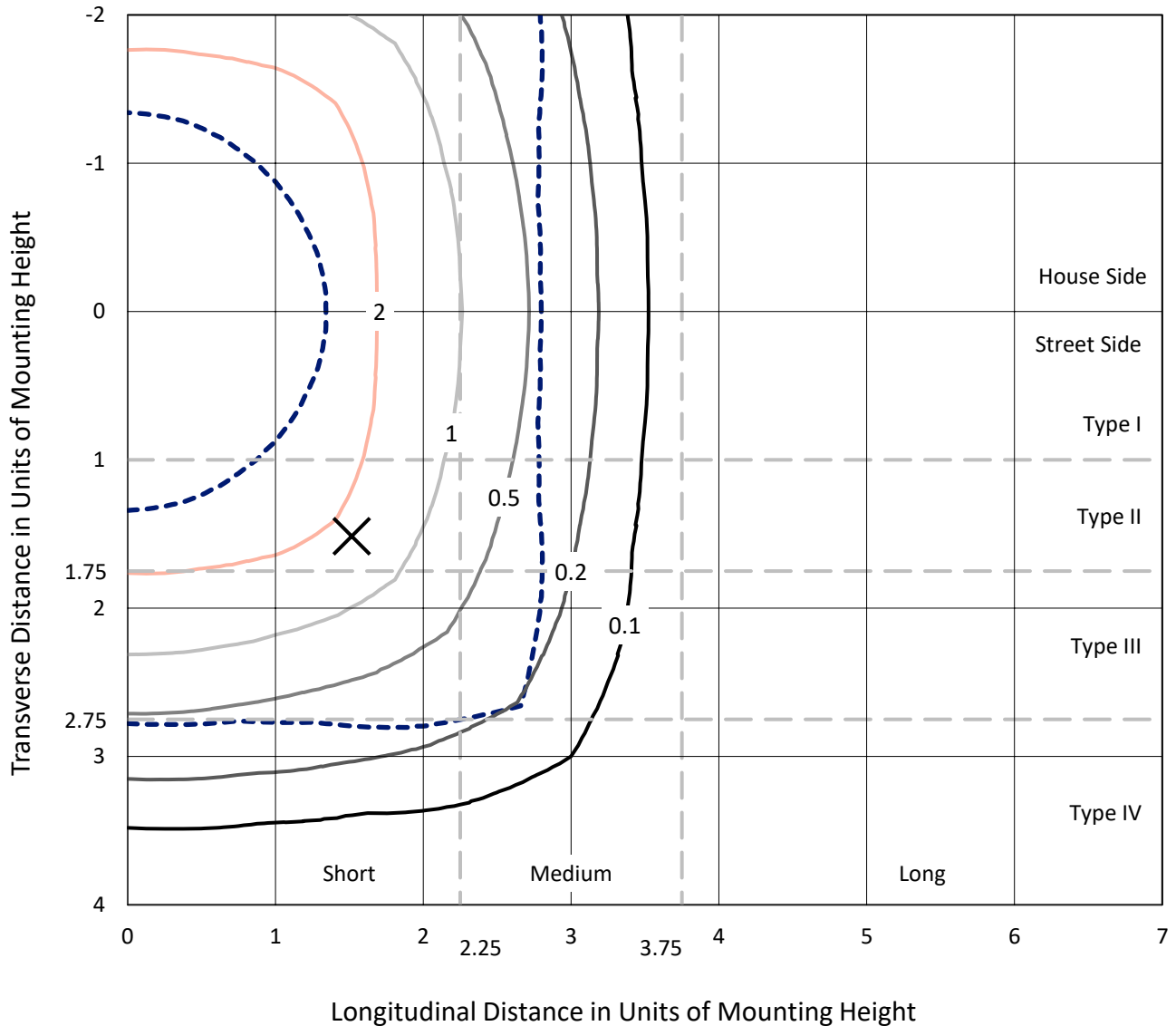
Lumens per Lamp: N/A  
Luminaire Lumens: 43480 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

Input Watts (W): 420.3  
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

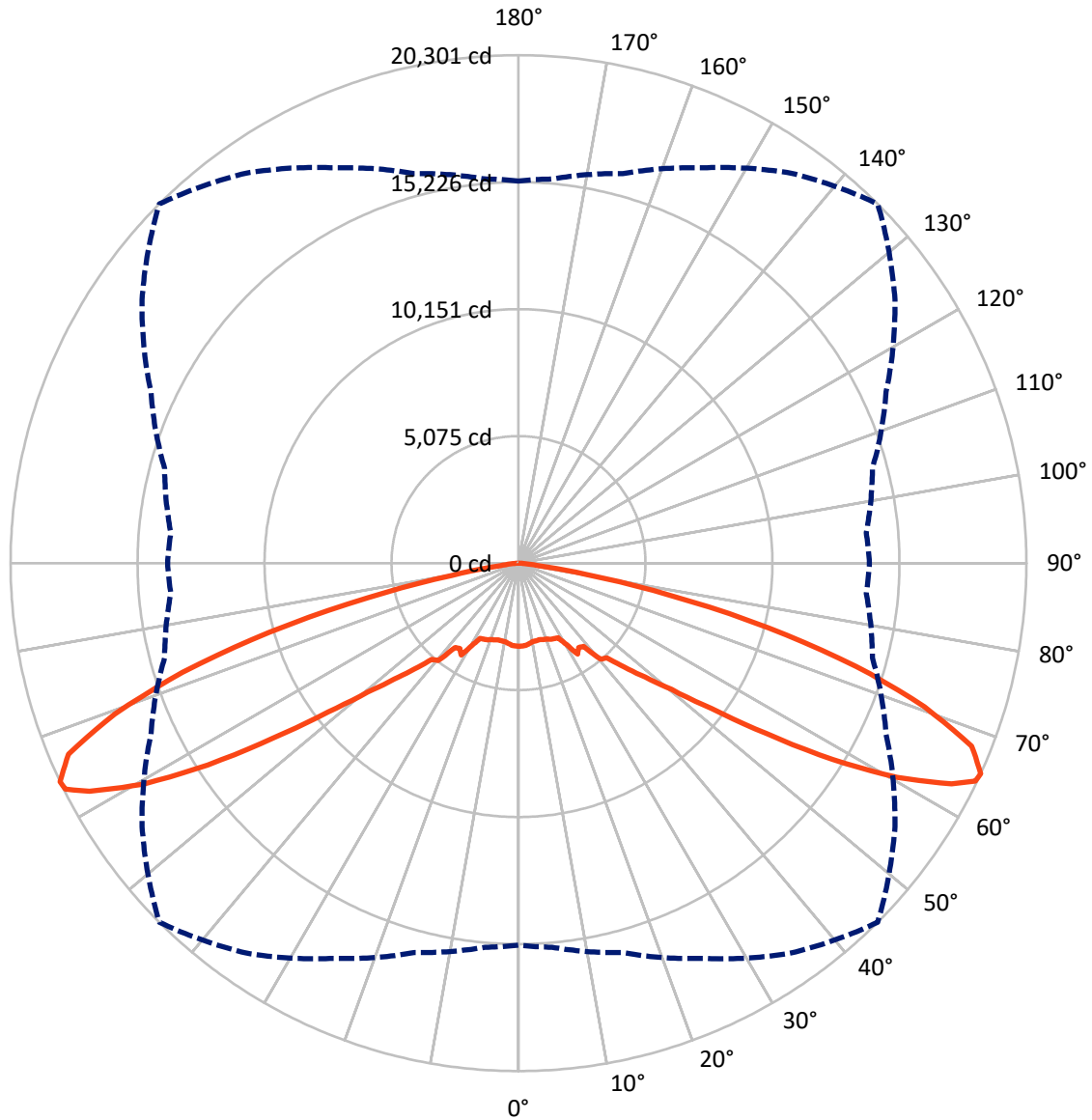
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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	21740.0	0.0	21740.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21740.0	0.0	21740.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43480.0	0.0	43480.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	312.0	0.7
10°-20°	916.4	2.1
20°-30°	1586.2	3.6
30°-40°	2637.5	6.1
40°-50°	4758.5	10.9
50°-60°	10600.4	24.4
60°-70°	15797.9	36.3
70°-80°	6546.9	15.1
80°-90°	324.3	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°	43480.0	100.0
0°-180°	43480.0	100.0

**Coefficient of Utilization**



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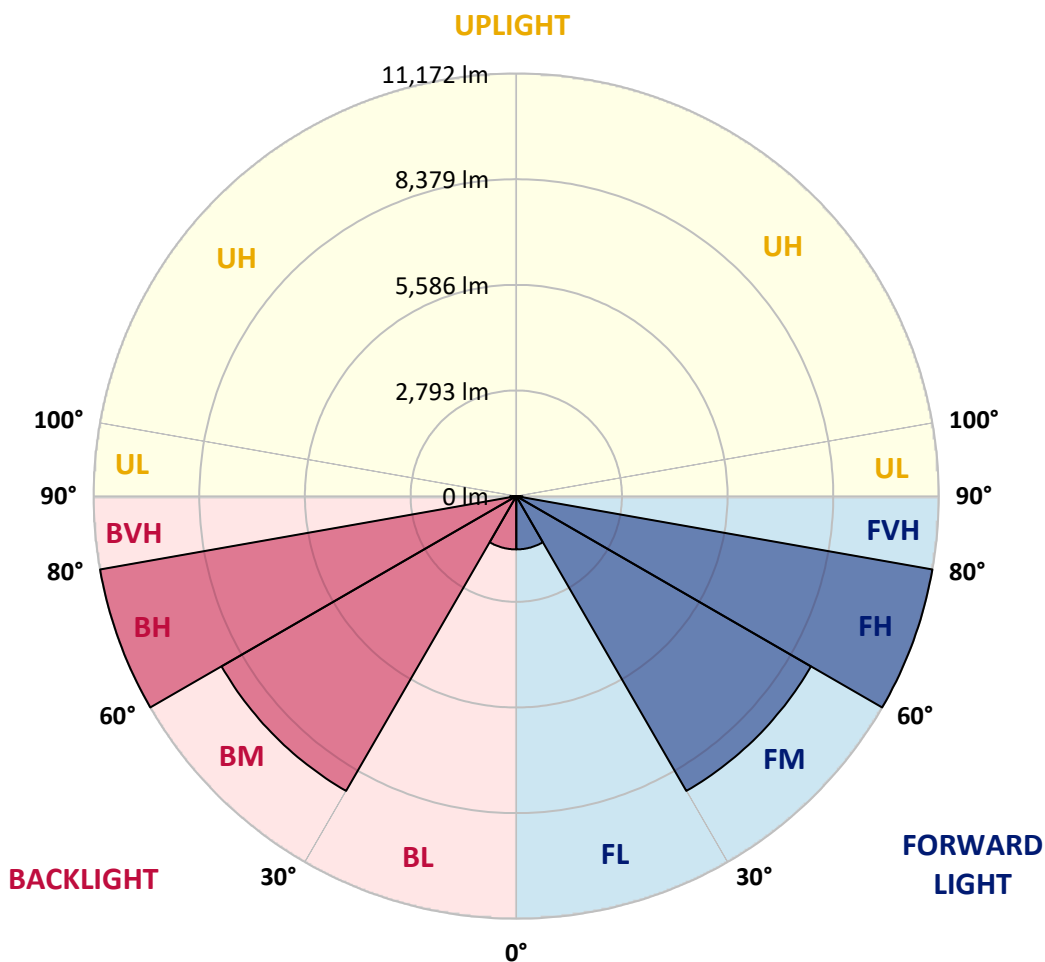
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.3	3.2			
FM (30°-60°)	8998.2	20.7			
FH (60°-80°)	11172.4	25.7			G4/12000
FVH (80°-90°)	162.1	0.4			G2/225
BL (0°-30°)	1407.3	3.2	B3/2500		
BM (30°-60°)	8998.2	20.7	B5		
BH (60°-80°)	11172.4	25.7	B5		G4/12000
BVH (80°-90°)	162.1	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°	3324.3	3324.3	3324.3	3324.3	3324.3	3324.3	3324.3	3324.3	3324.3	3324.3	3324.3
2.5°	3285.9	3295.5	3290.7	3290.7	3305.1	3314.7	3319.5	3367.5	3348.3	3362.7	3348.3
5°	3295.5	3295.5	3305.1	3295.5	3305.1	3295.5	3305.1	3290.7	3305.1	3314.7	3329.1
7.5°	3276.3	3266.7	3252.3	3252.3	3247.4	3237.8	3223.4	3261.9	3242.6	3257.1	3281.1
10°	3281.1	3266.7	3218.6	3228.2	3185.0	3185.0	3194.6	3194.6	3237.8	3285.9	3300.3
12.5°	3281.1	3252.3	3237.8	3175.4	3175.4	3180.2	3204.2	3213.8	3242.6	3261.9	3309.9
15°	3281.1	3266.7	3242.6	3161.0	3180.2	3170.6	3194.6	3194.6	3257.1	3290.7	3314.7
17.5°	3300.3	3309.9	3266.7	3189.8	3194.6	3213.8	3199.4	3213.8	3290.7	3314.7	3348.3
20°	3305.1	3266.7	3252.3	3204.2	3247.4	3237.8	3233.0	3261.9	3285.9	3329.1	3367.5
22.5°	3295.5	3309.9	3252.3	3247.4	3285.9	3305.1	3314.7	3281.1	3309.9	3338.7	3372.4
25°	3377.2	3324.3	3309.9	3300.3	3319.5	3338.7	3329.1	3357.9	3357.9	3391.6	3434.8
27.5°	3598.1	3602.9	3574.1	3458.8	3420.4	3377.2	3396.4	3473.2	3564.5	3636.6	3651.0
30°	3699.0	3718.2	3795.1	3775.9	3761.5	3775.9	3771.1	3790.3	3799.9	3804.7	3790.3
32.5°	3790.3	3780.7	3747.1	3833.5	4117.0	4333.1	4126.6	3843.1	3780.7	3761.5	3780.7
35°	4121.8	4121.8	4049.7	3939.2	4088.1	4141.0	4044.9	3910.4	3987.3	4145.8	4155.4
37.5°	4549.3	4486.9	4515.7	4501.3	4337.9	4222.6	4390.8	4477.3	4491.7	4486.9	4534.9
40°	4803.9	4760.7	4717.4	4794.3	4943.2	5048.9	4900.0	4693.4	4746.3	4852.0	4808.7
42.5°	5385.2	5274.7	5284.3	5207.4	5202.6	5169.0	5135.4	5149.8	5226.7	5346.8	5366.0
45°	5980.9	6033.7	6000.1	5856.0	5923.2	5923.2	5827.2	5899.2	5937.6	6077.0	6096.2
47.5°	6912.8	6888.8	6903.2	6773.5	6768.7	6802.3	6768.7	6773.5	6893.6	6884.0	6831.2
50°	8003.3	8070.6	8089.8	8027.3	7950.5	7936.1	7883.2	7950.5	8022.5	8027.3	7984.1
52.5°	9511.8	9583.8	9583.8	9603.0	9699.1	9651.1	9641.5	9646.3	9507.0	9410.9	9458.9
55°	11414.1	11438.1	11519.8	11687.9	11981.0	12019.4	11836.9	11755.2	11500.6	11346.9	11467.0
57.5°	13292.4	13388.5	13614.3	14051.5	14411.8	14805.7	14277.2	13739.2	13239.6	12994.6	13037.8
60°	14853.7	14993.0	15425.4	16035.5	17034.7	17395.0	16501.5	15579.1	14565.5	13816.1	14118.7
62.5°	15588.7	15804.9	16170.0	17404.6	18903.4	19422.2	18110.8	16434.2	14897.0	14176.4	14162.0
64°	15593.5	15627.1	16357.3	17688.0	19230.1	20234.1	18499.9	16434.2	14978.6	14089.9	14253.2
65°	15271.7	15411.0	16117.1	17428.6	19023.5	20301.4	18365.4	16208.4	14642.3	13950.6	14027.4
67.5°	13811.3	13806.5	14459.8	15761.7	17976.3	19537.5	17222.0	14945.0	13811.3	13061.9	13153.1
70°	10477.3	10645.5	11270.0	12869.7	15555.1	17226.9	15060.3	12701.6	11289.2	10688.7	10655.1
72.5°	6269.1	6490.1	7287.5	9237.9	12081.9	14113.9	11952.2	9396.5	7695.9	6744.7	6768.7
75°	2858.3	3021.7	3569.3	5159.4	8051.4	10318.8	8099.4	5433.2	3896.0	3290.7	3204.2
77.5°	802.3	903.1	1205.8	2368.3	4419.6	6187.4	4544.5	2618.1	1700.6	1412.4	1383.5
80°	360.3	379.5	427.5	576.5	1402.7	2728.6	1878.3	960.8	638.9	528.4	504.4
82.5°	197.0	211.4	278.6	297.8	398.7	725.4	619.7	451.6	384.3	307.5	297.8
85°	110.5	115.3	158.5	158.5	192.2	211.4	225.8	240.2	235.4	172.9	168.1
87.5°	33.6	38.4	48.0	48.0	48.0	48.0	76.9	105.7	115.3	81.7	81.7
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)