

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: P479891

Luminaire Tested: **IFLD-S-SA6E-830-U-5WQ**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P479891  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA6E-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**

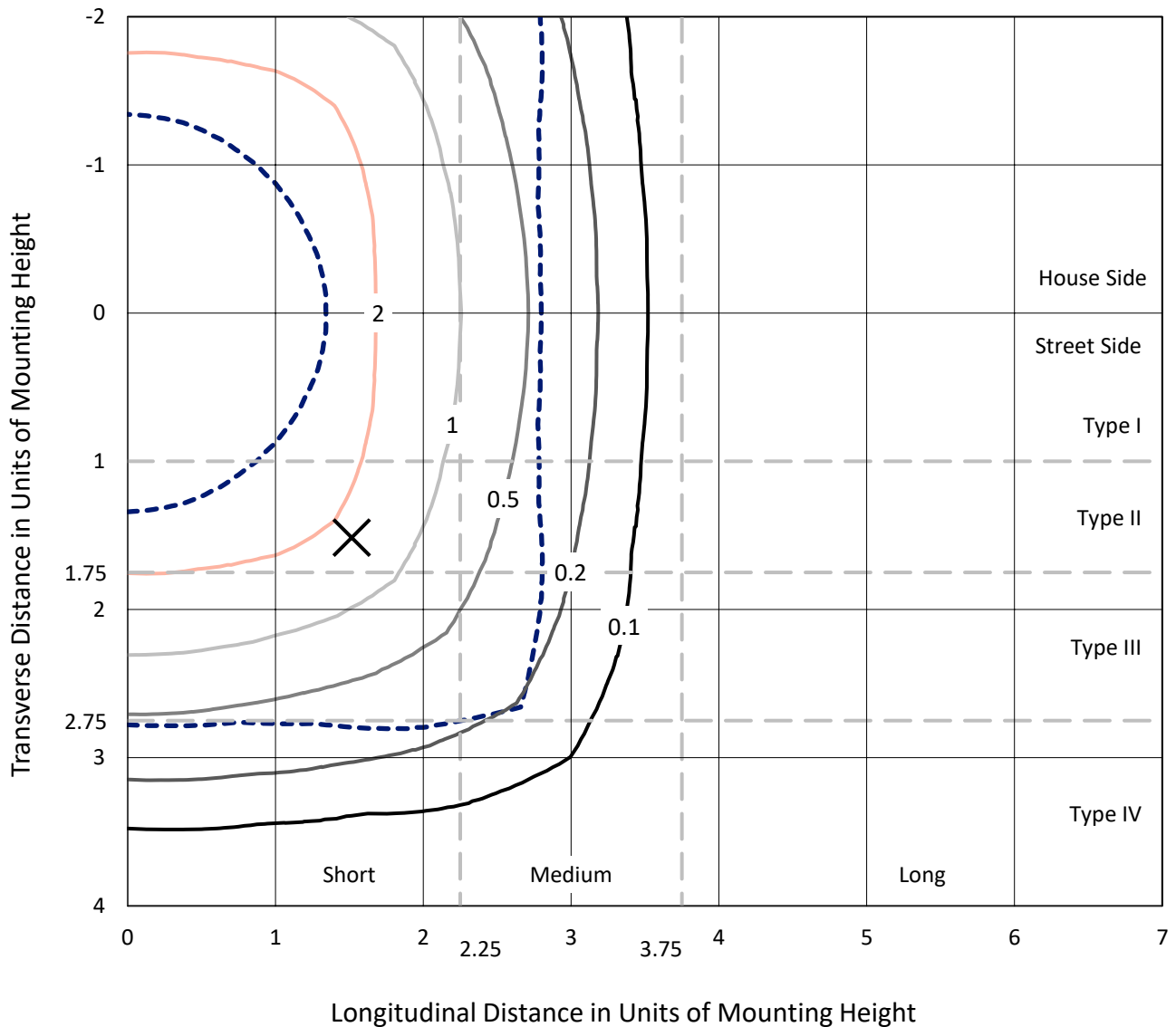
Lumens per Lamp: N/A  
Luminaire Lumens: 43145.8 lumens  
Efficiency: N/A  
Efficacy: 92.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4

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

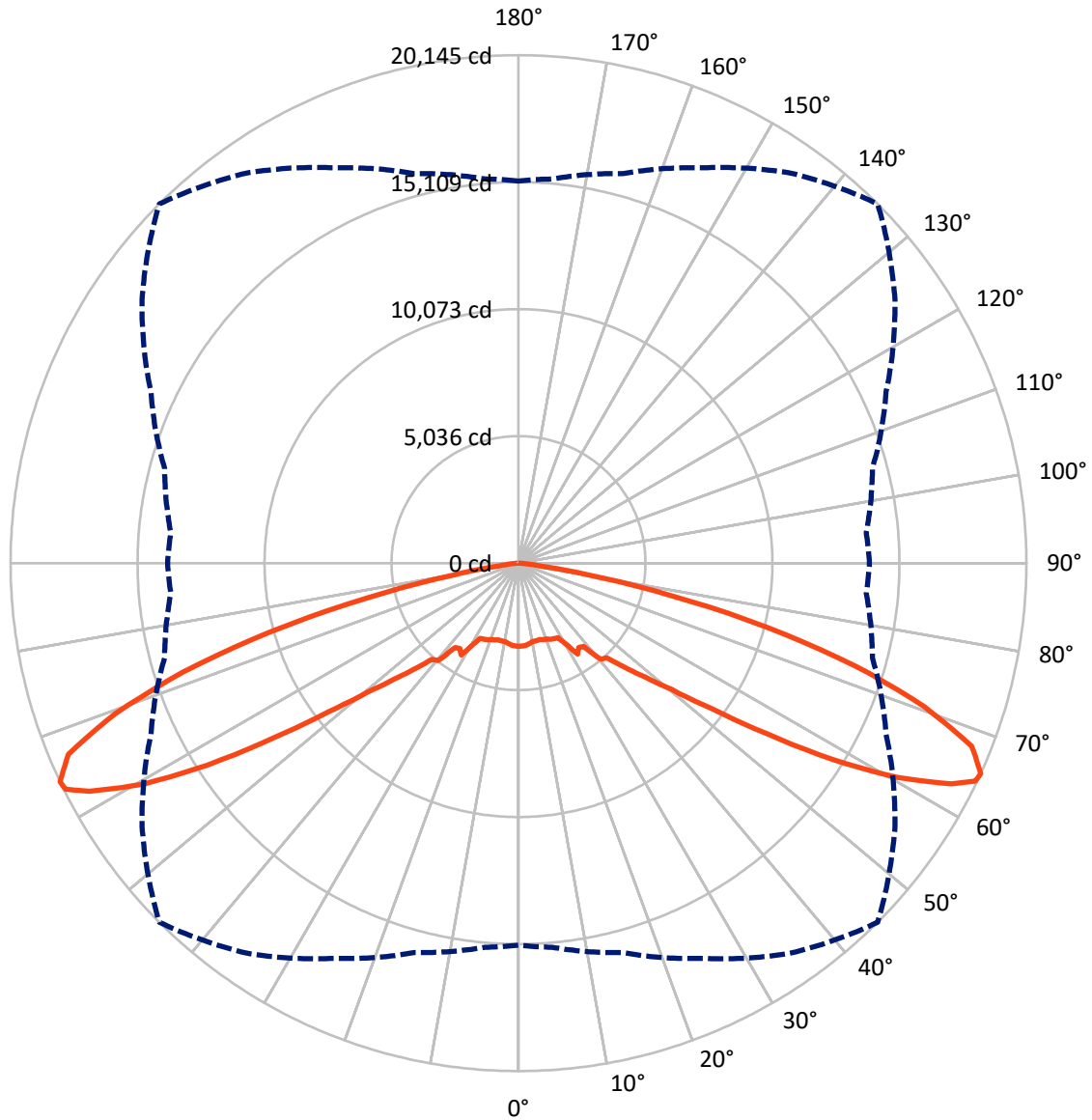
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.7 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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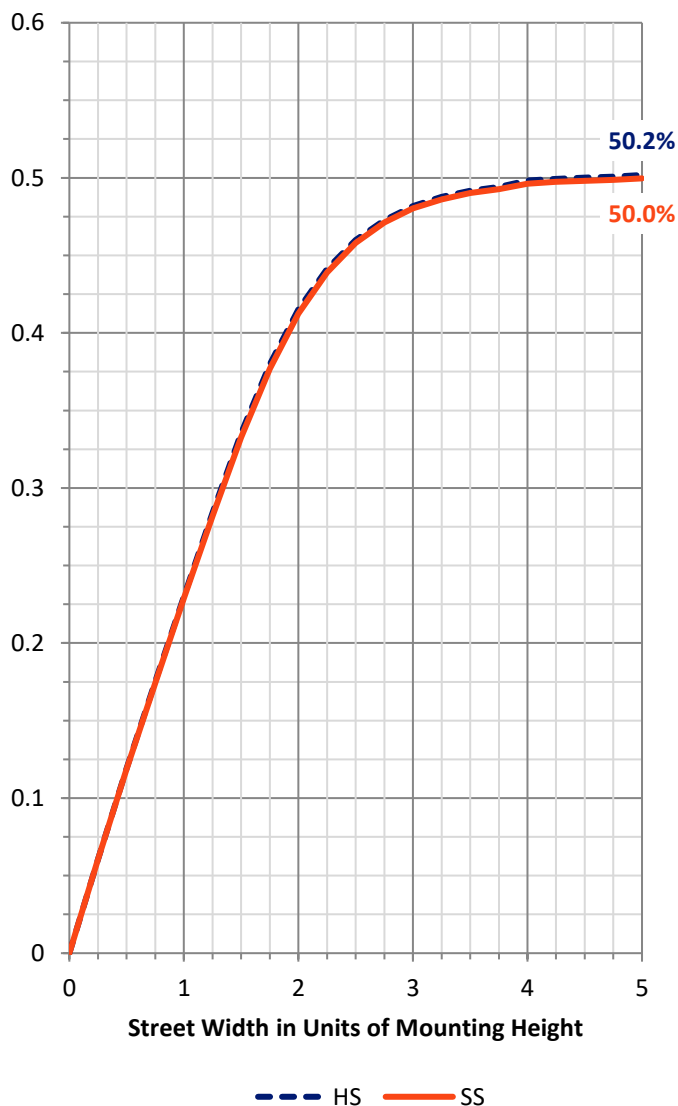
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	21572.9	0.0	21572.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	21572.9	0.0	21572.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	43145.8	0.0	43145.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.6	0.7
10°-20°	909.3	2.1
20°-30°	1574.0	3.6
30°-40°	2617.3	6.1
40°-50°	4721.9	10.9
50°-60°	10518.9	24.4
60°-70°	15676.5	36.3
70°-80°	6496.5	15.1
80°-90°	321.8	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°	43145.8	100.0
0°-180°	43145.8	100.0

**Coefficient of Utilization**



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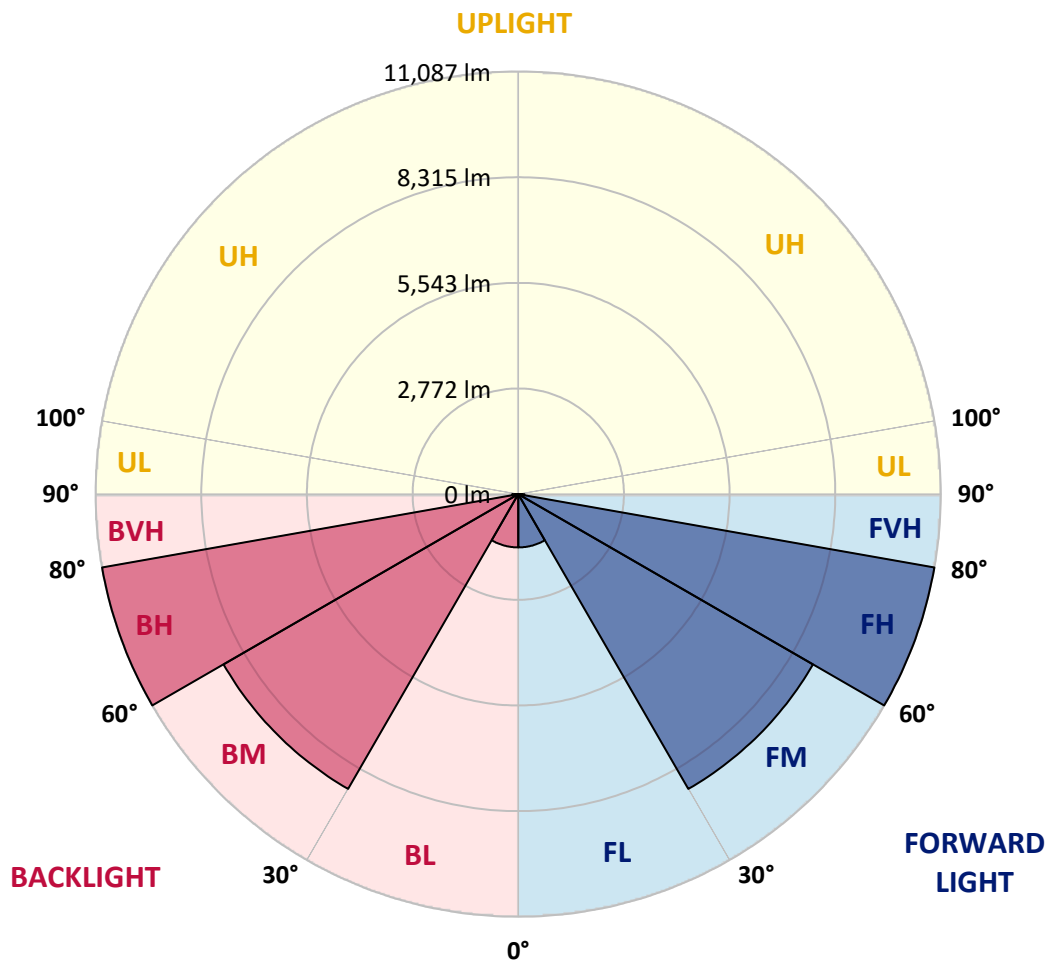
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1396.5	3.2			
FM (30°-60°)	8929.0	20.7			
FH (60°-80°)	11086.5	25.7			G4/12000
FVH (80°-90°)	160.9	0.4			G2/225
BL (0°-30°)	1396.5	3.2	B3/2500		
BM (30°-60°)	8929.0	20.7	B5		
BH (60°-80°)	11086.5	25.7	B5		G4/12000
BVH (80°-90°)	160.9	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°	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8	3298.8
2.5°	3260.6	3270.2	3265.4	3265.4	3279.7	3289.2	3294.0	3341.7	3322.6	3336.9	3322.6
5°	3270.2	3270.2	3279.7	3270.2	3279.7	3270.2	3279.7	3265.4	3279.7	3289.2	3303.5
7.5°	3251.1	3241.6	3227.3	3227.3	3222.5	3213.0	3198.7	3236.8	3217.7	3232.0	3255.9
10°	3255.9	3241.6	3193.9	3203.4	3160.5	3160.5	3170.1	3170.1	3213.0	3260.6	3274.9
12.5°	3255.9	3227.3	3213.0	3151.0	3151.0	3155.8	3179.6	3189.1	3217.7	3236.8	3284.5
15°	3255.9	3241.6	3217.7	3136.7	3155.8	3146.2	3170.1	3170.1	3232.0	3265.4	3289.2
17.5°	3274.9	3284.5	3241.6	3165.3	3170.1	3189.1	3174.8	3189.1	3265.4	3289.2	3322.6
20°	3279.7	3241.6	3227.3	3179.6	3222.5	3213.0	3208.2	3236.8	3260.6	3303.5	3341.7
22.5°	3270.2	3284.5	3227.3	3222.5	3260.6	3279.7	3289.2	3255.9	3284.5	3313.1	3346.4
25°	3351.2	3298.8	3284.5	3274.9	3294.0	3313.1	3303.5	3332.1	3332.1	3365.5	3408.4
27.5°	3570.5	3575.2	3546.6	3432.2	3394.1	3351.2	3370.3	3446.5	3537.1	3608.6	3622.9
30°	3670.6	3689.7	3765.9	3746.9	3732.6	3746.9	3742.1	3761.2	3770.7	3775.5	3761.2
32.5°	3761.2	3751.6	3718.3	3804.1	4085.3	4299.8	4094.9	3813.6	3751.6	3732.6	3751.6
35°	4090.1	4090.1	4018.6	3908.9	4056.7	4109.2	4013.8	3880.3	3956.6	4113.9	4123.5
37.5°	4514.3	4452.4	4481.0	4466.7	4304.6	4190.2	4357.0	4442.8	4457.1	4452.4	4500.0
40°	4767.0	4724.1	4681.2	4757.5	4905.2	5010.1	4862.3	4657.4	4709.8	4814.7	4771.8
42.5°	5343.8	5234.2	5243.7	5167.4	5162.7	5129.3	5095.9	5110.2	5186.5	5305.7	5324.7
45°	5934.9	5987.4	5954.0	5811.0	5877.7	5877.7	5782.4	5853.9	5892.0	6030.3	6049.3
47.5°	6859.7	6835.9	6850.2	6721.5	6716.7	6750.1	6716.7	6721.5	6840.6	6831.1	6778.7
50°	7941.8	8008.6	8027.6	7965.7	7889.4	7875.1	7822.6	7889.4	7960.9	7965.7	7922.8
52.5°	9438.7	9510.2	9510.2	9529.2	9624.6	9576.9	9567.4	9572.1	9433.9	9338.6	9386.2
55°	11326.4	11350.2	11431.3	11598.1	11888.9	11927.0	11745.9	11664.8	11412.2	11259.7	11378.8
57.5°	13190.3	13285.6	13509.7	13943.5	14301.0	14691.9	14167.5	13633.6	13137.8	12894.7	12937.6
60°	14739.6	14877.8	15306.8	15912.2	16903.8	17261.3	16374.6	15459.4	14453.5	13709.9	14010.2
62.5°	15468.9	15683.4	16045.7	17270.8	18758.1	19273.0	17971.6	16307.9	14782.5	14067.4	14053.1
64°	15473.7	15507.0	16231.6	17552.1	19082.3	20078.6	18357.7	16307.9	14863.5	13981.6	14143.7
65°	15154.3	15292.5	15993.3	17294.7	18877.3	20145.3	18224.2	16083.9	14529.8	13843.4	13919.6
67.5°	13705.1	13700.4	14348.7	15640.5	17838.1	19387.4	17089.7	14830.1	13705.1	12961.5	13052.0
70°	10396.8	10563.7	11183.4	12770.8	15435.5	17094.5	14944.5	12603.9	11202.4	10606.6	10573.2
72.5°	6220.9	6440.2	7231.5	9166.9	11989.0	14005.4	11860.3	9324.2	7636.7	6692.9	6716.7
75°	2836.4	2998.4	3541.9	5119.8	7989.5	10239.5	8037.2	5391.5	3866.0	3265.4	3179.6
77.5°	796.1	896.2	1196.5	2350.1	4385.6	6139.9	4509.6	2598.0	1687.5	1401.5	1372.9
80°	357.5	376.6	424.3	572.0	1392.0	2707.7	1863.9	953.4	634.0	524.4	500.5
82.5°	195.4	209.7	276.5	295.6	395.7	719.8	614.9	448.1	381.4	305.1	295.6
85°	109.6	114.4	157.3	157.3	190.7	209.7	224.0	238.3	233.6	171.6	166.8
87.5°	33.4	38.1	47.7	47.7	47.7	47.7	76.3	104.9	114.4	81.0	81.0
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)