

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: P479628

Luminaire Tested: **IFLD-L-SA7E-727-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479628
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7E-727-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (112) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

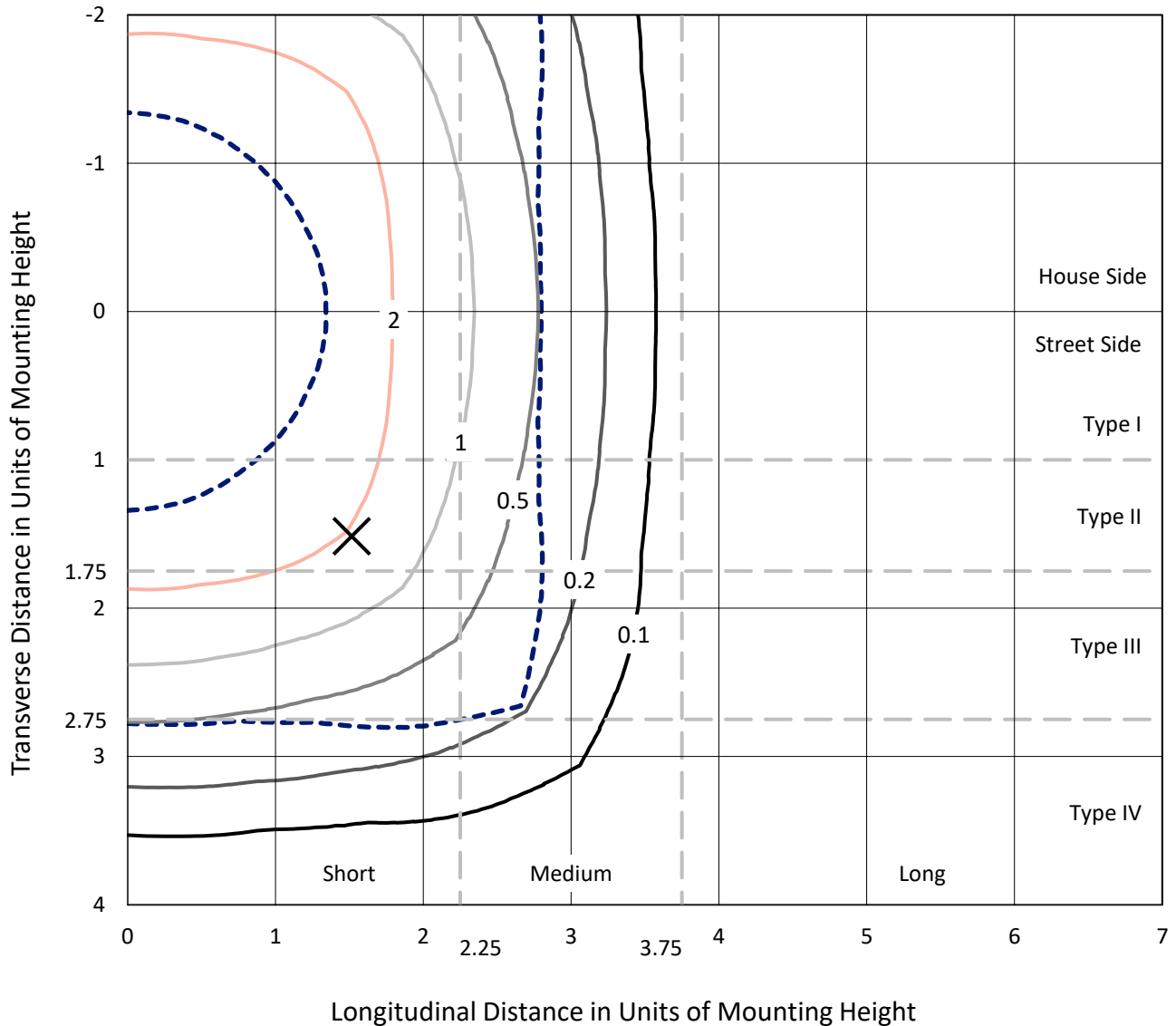
Lumens per Lamp: N/A
Luminaire Lumens: 48446.8 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 532.7
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

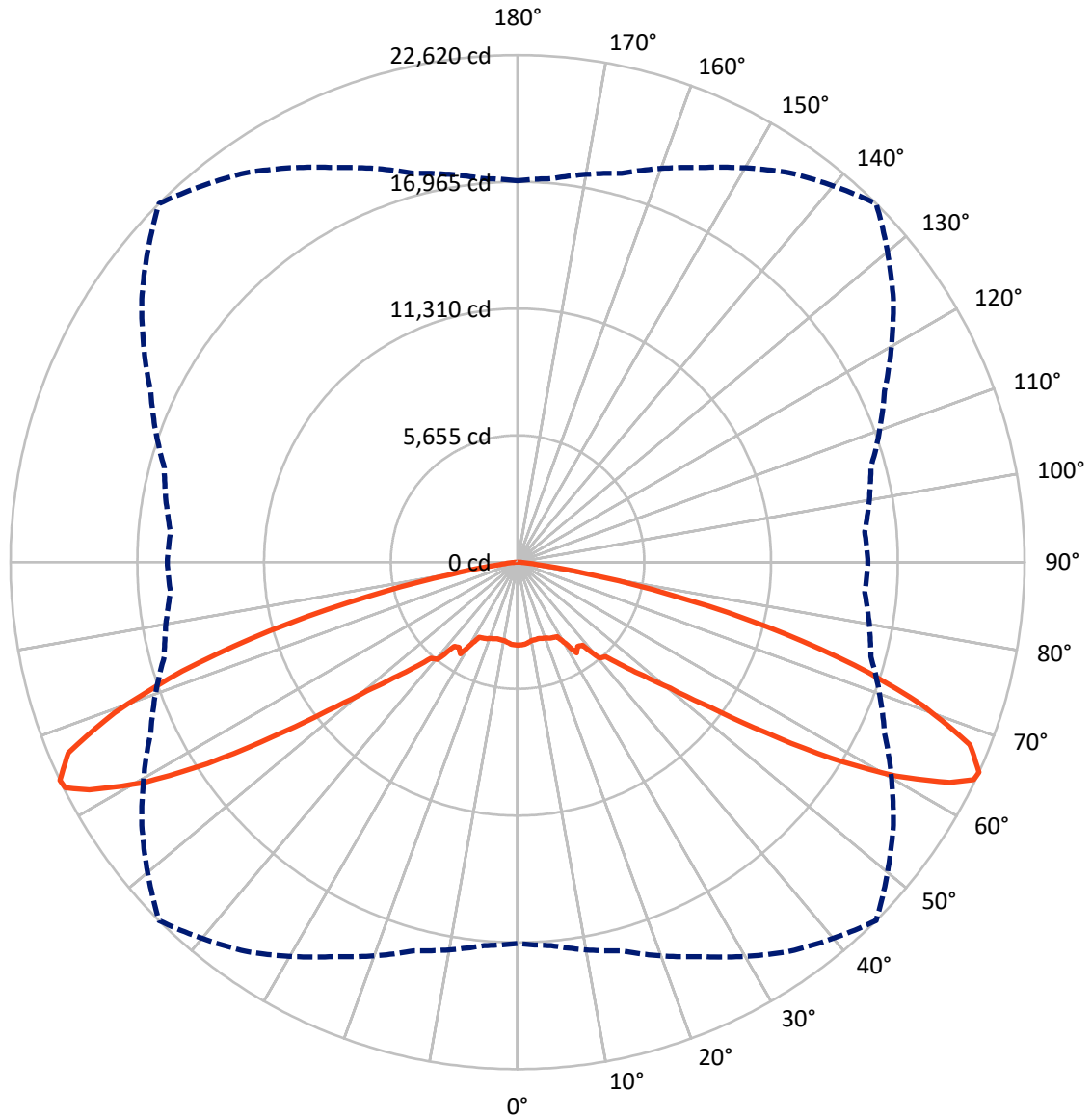
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 4.1 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	24223.4	0.0	24223.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	24223.4	0.0	24223.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	48446.8	0.0	48446.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.6	0.7
10°-20°	1021.1	2.1
20°-30°	1767.4	3.6
30°-40°	2938.8	6.1
40°-50°	5302.1	10.9
50°-60°	11811.3	24.4
60°-70°	17602.6	36.3
70°-80°	7294.7	15.1
80°-90°	361.3	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°	48446.8	100.0
0°-180°	48446.8	100.0

Coefficient of Utilization



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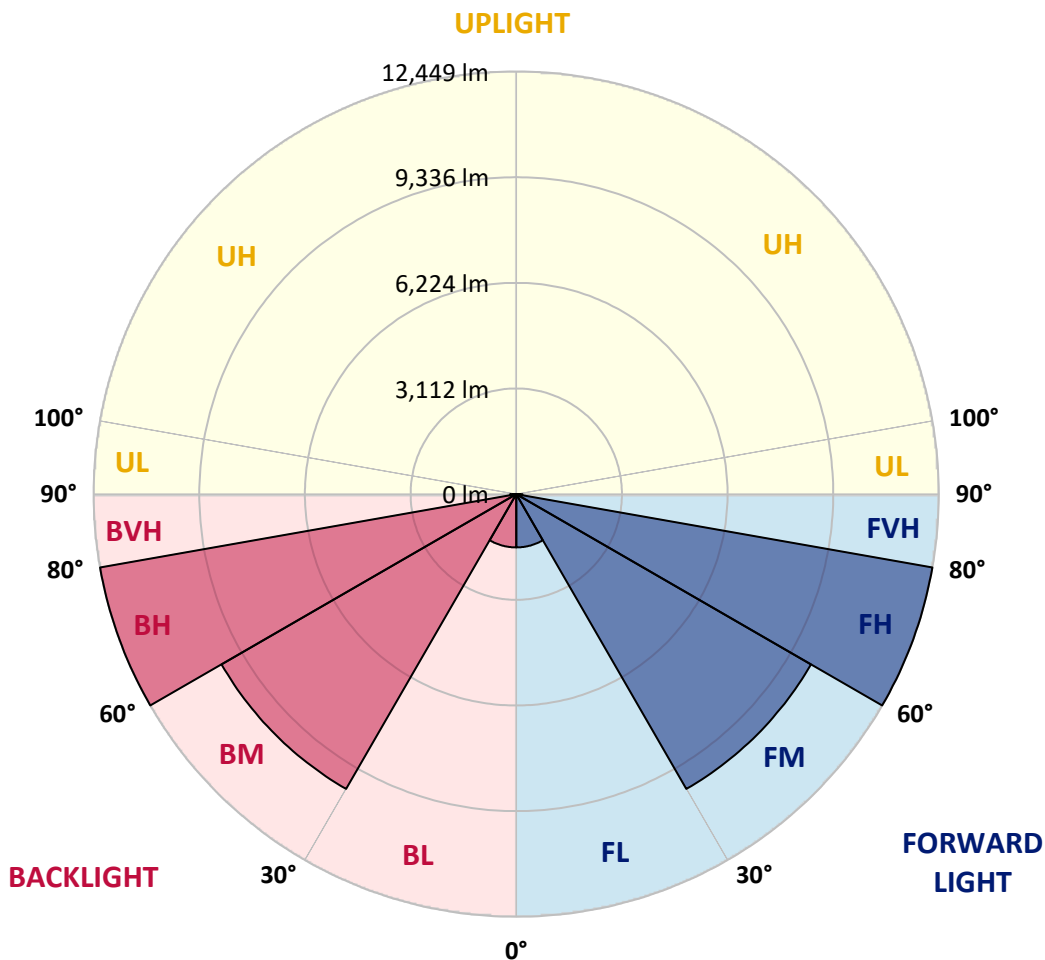
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1568.0	3.2			
FM (30°-60°)	10026.1	20.7			
FH (60°-80°)	12448.7	25.7			G5
FVH (80°-90°)	180.7	0.4			G2/225
BL (0°-30°)	1568.0	3.2	B3/2500		
BM (30°-60°)	10026.1	20.7	B5		
BH (60°-80°)	12448.7	25.7	B5		G5
BVH (80°-90°)	180.7	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-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3704.1	3704.1	3704.1	3704.1	3704.1	3704.1	3704.1	3704.1	3704.1	3704.1	3704.1
2.5°	3661.2	3671.9	3666.6	3666.6	3682.6	3693.4	3698.7	3752.2	3730.8	3746.9	3730.8
5°	3671.9	3671.9	3682.6	3671.9	3682.6	3671.9	3682.6	3666.6	3682.6	3693.4	3709.4
7.5°	3650.5	3639.8	3623.8	3623.8	3618.4	3607.7	3591.6	3634.5	3613.1	3629.1	3655.9
10°	3655.9	3639.8	3586.3	3597.0	3548.8	3548.8	3559.5	3559.5	3607.7	3661.2	3677.3
12.5°	3655.9	3623.8	3607.7	3538.1	3538.1	3543.5	3570.2	3580.9	3613.1	3634.5	3688.0
15°	3655.9	3639.8	3613.1	3522.1	3543.5	3532.8	3559.5	3559.5	3629.1	3666.6	3693.4
17.5°	3677.3	3688.0	3639.8	3554.2	3559.5	3580.9	3564.9	3580.9	3666.6	3693.4	3730.8
20°	3682.6	3639.8	3623.8	3570.2	3618.4	3607.7	3602.4	3634.5	3661.2	3709.4	3752.2
22.5°	3671.9	3688.0	3623.8	3618.4	3661.2	3682.6	3693.4	3655.9	3688.0	3720.1	3757.6
25°	3762.9	3704.1	3688.0	3677.3	3698.7	3720.1	3709.4	3741.5	3741.5	3779.0	3827.2
27.5°	4009.2	4014.5	3982.4	3853.9	3811.1	3762.9	3784.3	3870.0	3971.7	4052.0	4068.0
30°	4121.6	4143.0	4228.6	4207.2	4191.1	4207.2	4201.9	4223.3	4234.0	4239.3	4223.3
32.5°	4223.3	4212.6	4175.1	4271.4	4587.2	4828.1	4598.0	4282.1	4212.6	4191.1	4212.6
35°	4592.6	4592.6	4512.3	4389.2	4555.1	4614.0	4507.0	4357.1	4442.7	4619.4	4630.1
37.5°	5069.0	4999.4	5031.5	5015.5	4833.5	4705.0	4892.4	4988.7	5004.8	4999.4	5052.9
40°	5352.7	5304.5	5256.3	5342.0	5507.9	5625.7	5459.7	5229.6	5288.4	5406.2	5358.0
42.5°	6000.4	5877.2	5887.9	5802.3	5797.0	5759.5	5722.0	5738.1	5823.7	5957.5	5978.9
45°	6664.1	6723.0	6685.5	6524.9	6599.9	6599.9	6492.8	6573.1	6615.9	6771.1	6792.6
47.5°	7702.5	7675.7	7691.8	7547.3	7541.9	7579.4	7541.9	7547.3	7681.1	7670.4	7611.5
50°	8917.6	8992.5	9013.9	8944.3	8858.7	8842.6	8783.8	8858.7	8939.0	8944.3	8896.2
52.5°	10598.3	10678.6	10678.6	10700.0	10807.1	10753.5	10742.8	10748.2	10593.0	10485.9	10539.4
55°	12718.0	12744.7	12835.7	13023.1	13349.6	13392.4	13189.0	13098.0	12814.3	12643.0	12776.9
57.5°	14810.9	14917.9	15169.5	15656.6	16058.0	16497.0	15908.2	15308.7	14752.0	14479.0	14527.2
60°	16550.5	16705.7	17187.5	17867.3	18980.6	19382.1	18386.5	17358.7	16229.3	15394.3	15731.5
62.5°	17369.5	17610.3	18017.1	19392.8	21062.8	21640.9	20179.6	18311.5	16598.7	15795.8	15779.7
64°	17374.8	17412.3	18225.9	19708.6	21426.8	22545.5	20613.2	18311.5	16689.7	15699.4	15881.4
65°	17016.2	17171.4	17958.2	19419.5	21196.6	22620.4	20463.3	18059.9	16315.0	15544.2	15629.8
67.5°	15389.0	15383.6	16111.6	17562.1	20029.7	21769.4	19189.4	16652.2	15389.0	14553.9	14655.6
70°	11674.2	11861.5	12557.4	14339.8	17332.0	19194.7	16780.7	14152.5	12578.8	11909.7	11872.2
72.5°	6985.2	7231.5	8120.0	10293.2	13462.0	15726.2	13317.5	10469.8	8575.0	7515.2	7541.9
75°	3184.8	3366.8	3977.0	5748.8	8971.1	11497.6	9024.6	6053.9	4341.0	3666.6	3570.2
77.5°	893.9	1006.3	1343.5	2638.9	4924.5	6894.3	5063.6	2917.2	1894.8	1573.7	1541.6
80°	401.5	422.9	476.4	642.3	1563.0	3040.3	2092.9	1070.5	711.9	588.8	562.0
82.5°	219.5	235.5	310.5	331.9	444.3	808.3	690.5	503.2	428.2	342.6	331.9
85°	123.1	128.5	176.6	176.6	214.1	235.5	251.6	267.6	262.3	192.7	187.3
87.5°	37.5	42.8	53.5	53.5	53.5	53.5	85.6	117.8	128.5	91.0	91.0
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)