

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: P479866

Luminaire Tested: **IFLD-L-SA8D-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479866
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

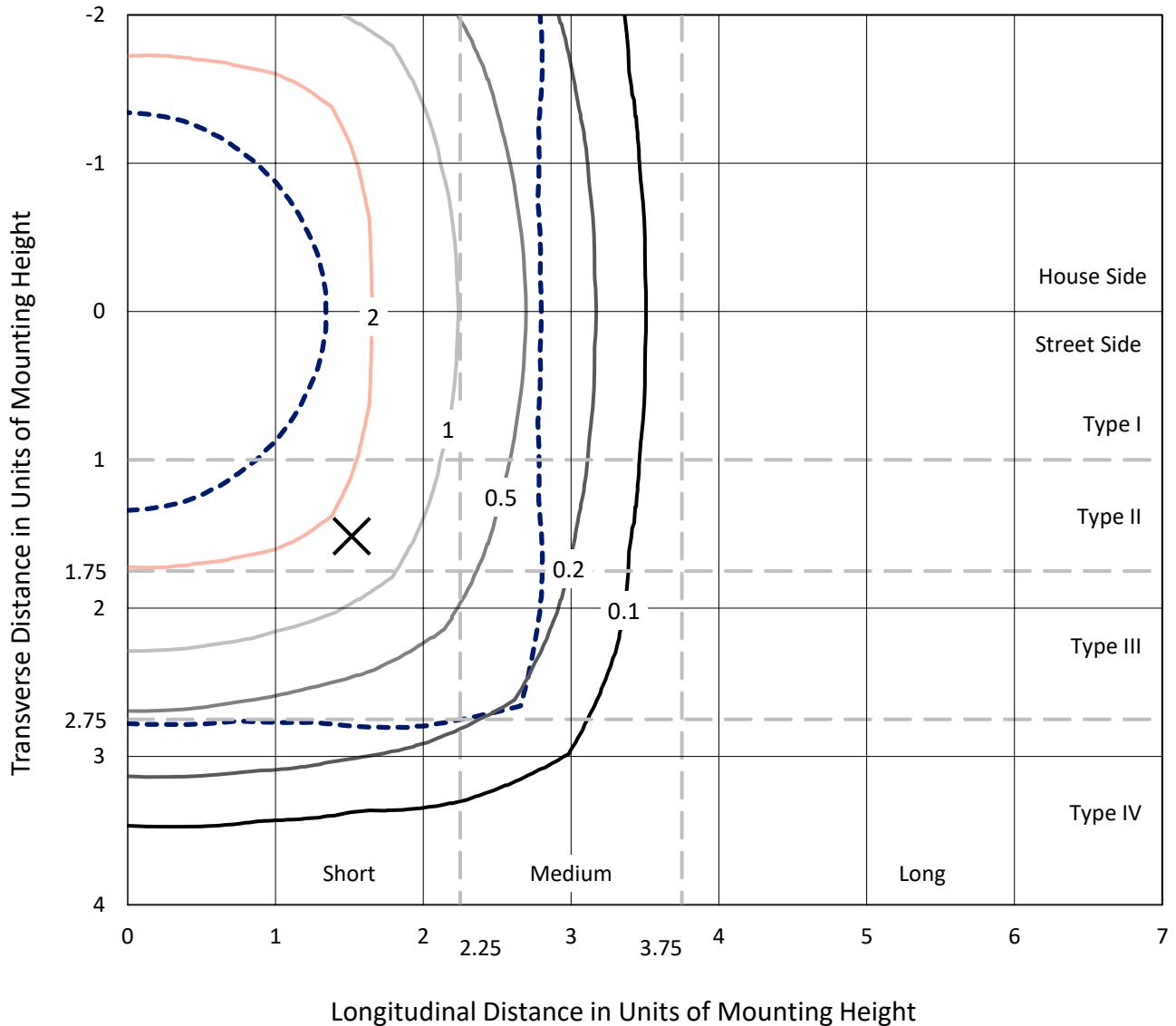
Lumens per Lamp: N/A
Luminaire Lumens: 42053.4 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 488.3
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

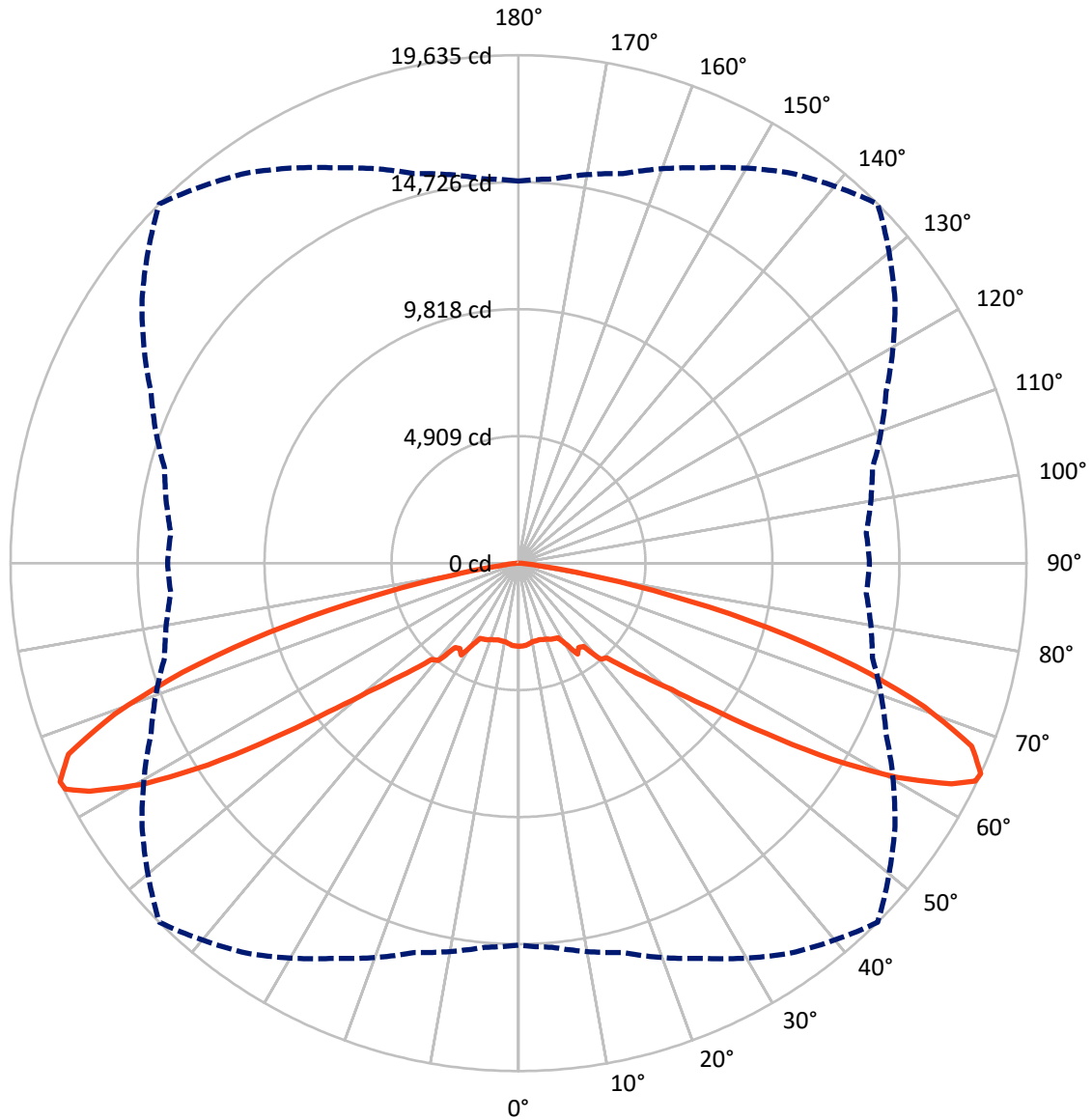
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 3.6 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	21026.7	0.0	21026.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	21026.7	0.0	21026.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	42053.4	0.0	42053.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.7	0.7
10°-20°	886.3	2.1
20°-30°	1534.2	3.6
30°-40°	2551.0	6.1
40°-50°	4602.4	10.9
50°-60°	10252.6	24.4
60°-70°	15279.6	36.3
70°-80°	6332.0	15.1
80°-90°	313.6	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°	42053.4	100.0
0°-180°	42053.4	100.0

Coefficient of Utilization



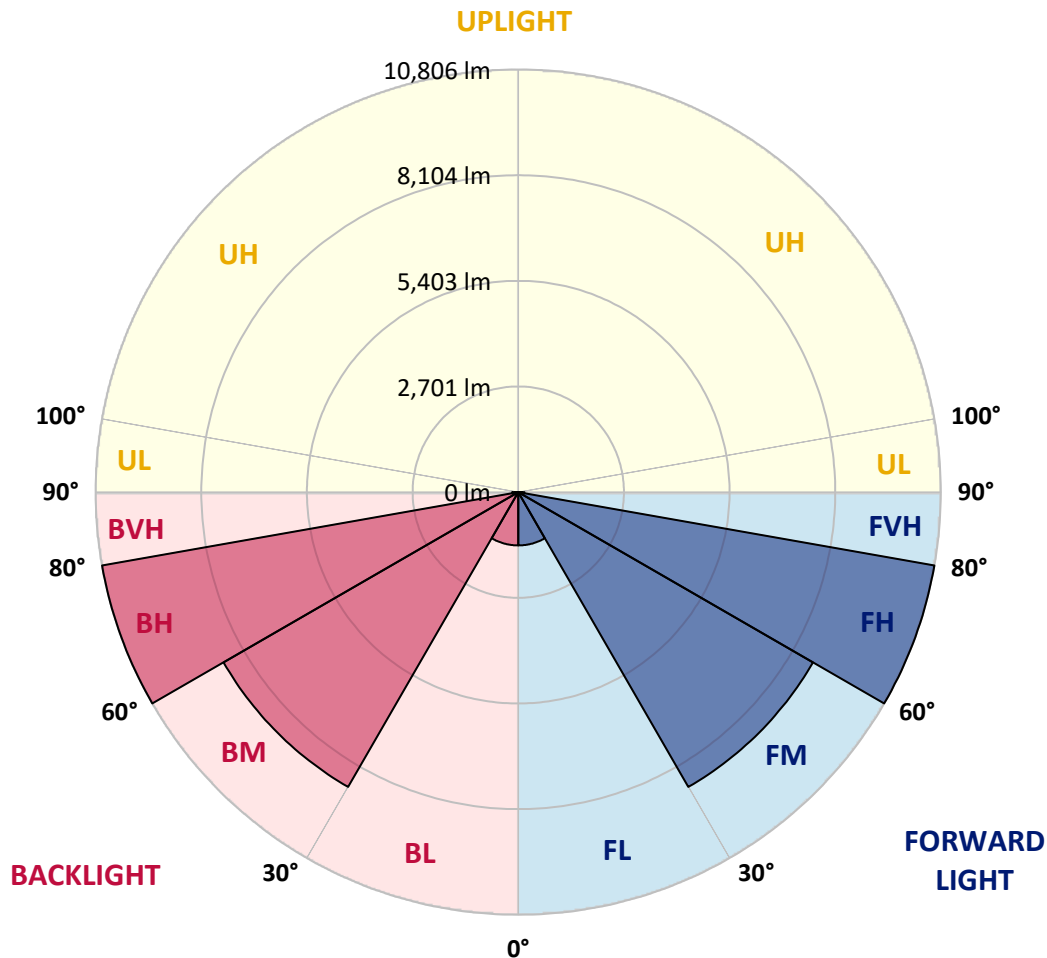
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1361.1	3.2			
FM (30°-60°)	8703.0	20.7			
FH (60°-80°)	10805.8	25.7			G4/12000
FVH (80°-90°)	156.8	0.4			G2/225
BL (0°-30°)	1361.1	3.2	B3/2500		
BM (30°-60°)	8703.0	20.7	B5		
BH (60°-80°)	10805.8	25.7	B5		G4/12000
BVH (80°-90°)	156.8	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°	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2	3215.2
2.5°	3178.1	3187.4	3182.7	3182.7	3196.7	3205.9	3210.6	3257.1	3238.5	3252.4	3238.5
5°	3187.4	3187.4	3196.7	3187.4	3196.7	3187.4	3196.7	3182.7	3196.7	3205.9	3219.9
7.5°	3168.8	3159.5	3145.5	3145.5	3140.9	3131.6	3117.7	3154.8	3136.3	3150.2	3173.4
10°	3173.4	3159.5	3113.0	3122.3	3080.5	3080.5	3089.8	3089.8	3131.6	3178.1	3192.0
12.5°	3173.4	3145.5	3131.6	3071.2	3071.2	3075.9	3099.1	3108.4	3136.3	3154.8	3201.3
15°	3173.4	3159.5	3136.3	3057.3	3075.9	3066.6	3089.8	3089.8	3150.2	3182.7	3205.9
17.5°	3192.0	3201.3	3159.5	3085.1	3089.8	3108.4	3094.4	3108.4	3182.7	3205.9	3238.5
20°	3196.7	3159.5	3145.5	3099.1	3140.9	3131.6	3127.0	3154.8	3178.1	3219.9	3257.1
22.5°	3187.4	3201.3	3145.5	3140.9	3178.1	3196.7	3205.9	3173.4	3201.3	3229.2	3261.7
25°	3266.3	3215.2	3201.3	3192.0	3210.6	3229.2	3219.9	3247.8	3247.8	3280.3	3322.1
27.5°	3480.1	3484.7	3456.8	3345.3	3308.2	3266.3	3284.9	3359.3	3447.6	3517.2	3531.2
30°	3577.7	3596.2	3670.6	3652.0	3638.1	3652.0	3647.3	3665.9	3675.2	3679.9	3665.9
32.5°	3665.9	3656.6	3624.1	3707.7	3981.9	4191.0	3991.2	3717.0	3656.6	3638.1	3656.6
35°	3986.5	3986.5	3916.8	3810.0	3954.0	4005.1	3912.2	3782.1	3856.4	4009.8	4019.0
37.5°	4400.0	4339.6	4367.5	4353.6	4195.6	4084.1	4246.7	4330.4	4344.3	4339.6	4386.1
40°	4646.3	4604.5	4562.7	4637.0	4781.0	4883.3	4739.2	4539.4	4590.5	4692.8	4650.9
42.5°	5208.5	5101.6	5110.9	5036.6	5031.9	4999.4	4966.9	4980.8	5055.2	5171.3	5189.9
45°	5784.6	5835.8	5803.2	5663.8	5728.9	5728.9	5636.0	5705.7	5742.8	5877.6	5896.2
47.5°	6686.0	6662.8	6676.7	6551.3	6546.6	6579.2	6546.6	6551.3	6667.4	6658.1	6607.0
50°	7740.7	7805.8	7824.4	7764.0	7689.6	7675.7	7624.6	7689.6	7759.3	7764.0	7722.2
52.5°	9199.7	9269.4	9269.4	9288.0	9380.9	9334.4	9325.1	9329.8	9195.0	9102.1	9148.6
55°	11039.6	11062.8	11141.8	11304.4	11587.9	11625.0	11448.5	11369.5	11123.2	10974.6	11090.7
57.5°	12856.3	12949.2	13167.6	13590.4	13938.9	14319.9	13808.8	13288.4	12805.2	12568.2	12610.1
60°	14366.4	14501.1	14919.3	15509.4	16475.8	16824.3	15960.0	15068.0	14087.6	13362.8	13655.5
62.5°	15077.2	15286.3	15639.4	16833.5	18283.2	18785.0	17516.6	15895.0	14408.2	13711.2	13697.3
64°	15081.9	15114.4	15820.7	17107.7	18599.1	19570.2	17892.9	15895.0	14487.2	13627.6	13785.6
65°	14770.6	14905.3	15588.3	16856.8	18399.4	19635.3	17762.8	15676.6	14161.9	13492.9	13567.2
67.5°	13358.1	13353.5	13985.4	15244.5	17386.5	18896.5	16657.0	14454.6	13358.1	12633.3	12721.6
70°	10133.6	10296.2	10900.2	12447.4	15044.7	16661.6	14566.2	12284.8	10918.8	10338.0	10305.5
72.5°	6063.4	6277.2	7048.4	8934.8	11685.4	13650.8	11560.0	9088.2	7443.4	6523.4	6546.6
75°	2764.5	2922.5	3452.2	4990.1	7787.2	9980.3	7833.7	5255.0	3768.1	3182.7	3099.1
77.5°	775.9	873.5	1166.2	2290.6	4274.6	5984.4	4395.4	2532.2	1644.8	1366.0	1338.1
80°	348.5	367.1	413.5	557.6	1356.7	2639.1	1816.7	929.3	618.0	511.1	487.9
82.5°	190.5	204.4	269.5	288.1	385.6	701.6	599.4	436.8	371.7	297.4	288.1
85°	106.9	111.5	153.3	153.3	185.9	204.4	218.4	232.3	227.7	167.3	162.6
87.5°	32.5	37.2	46.5	46.5	46.5	46.5	74.3	102.2	111.5	79.0	79.0
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)