

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: P479833

Luminaire Tested: **IFLD-S-SA3A-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479833
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

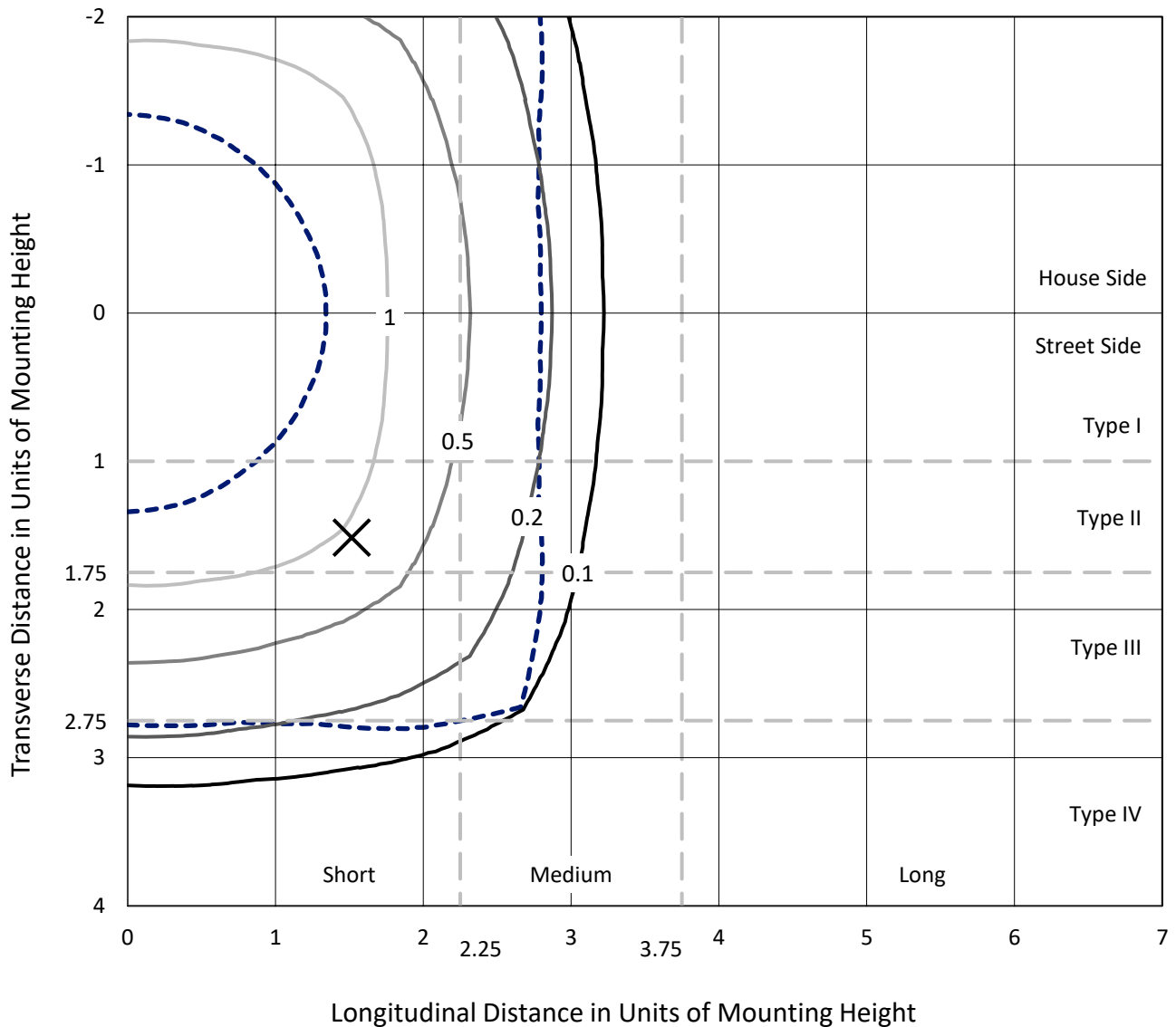
Lumens per Lamp: N/A
Luminaire Lumens: 10378.8 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 94.8
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

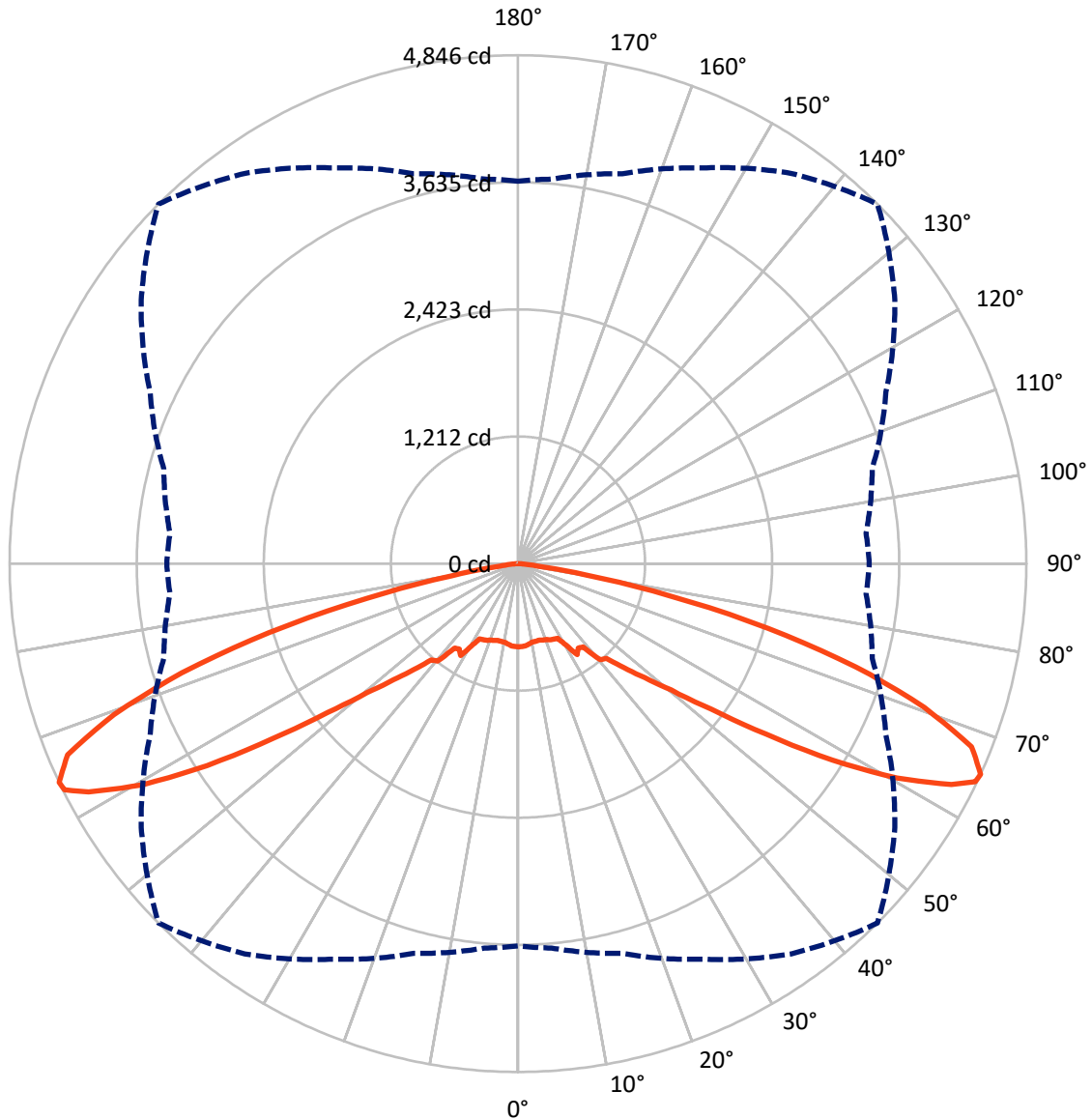
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 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	5189.4	0.0	5189.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5189.4	0.0	5189.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	10378.8	0.0	10378.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	0.7
10°-20°	218.7	2.1
20°-30°	378.6	3.6
30°-40°	629.6	6.1
40°-50°	1135.9	10.9
50°-60°	2530.3	24.4
60°-70°	3771.0	36.3
70°-80°	1562.8	15.1
80°-90°	77.4	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°	10378.8	100.0
0°-180°	10378.8	100.0

Coefficient of Utilization



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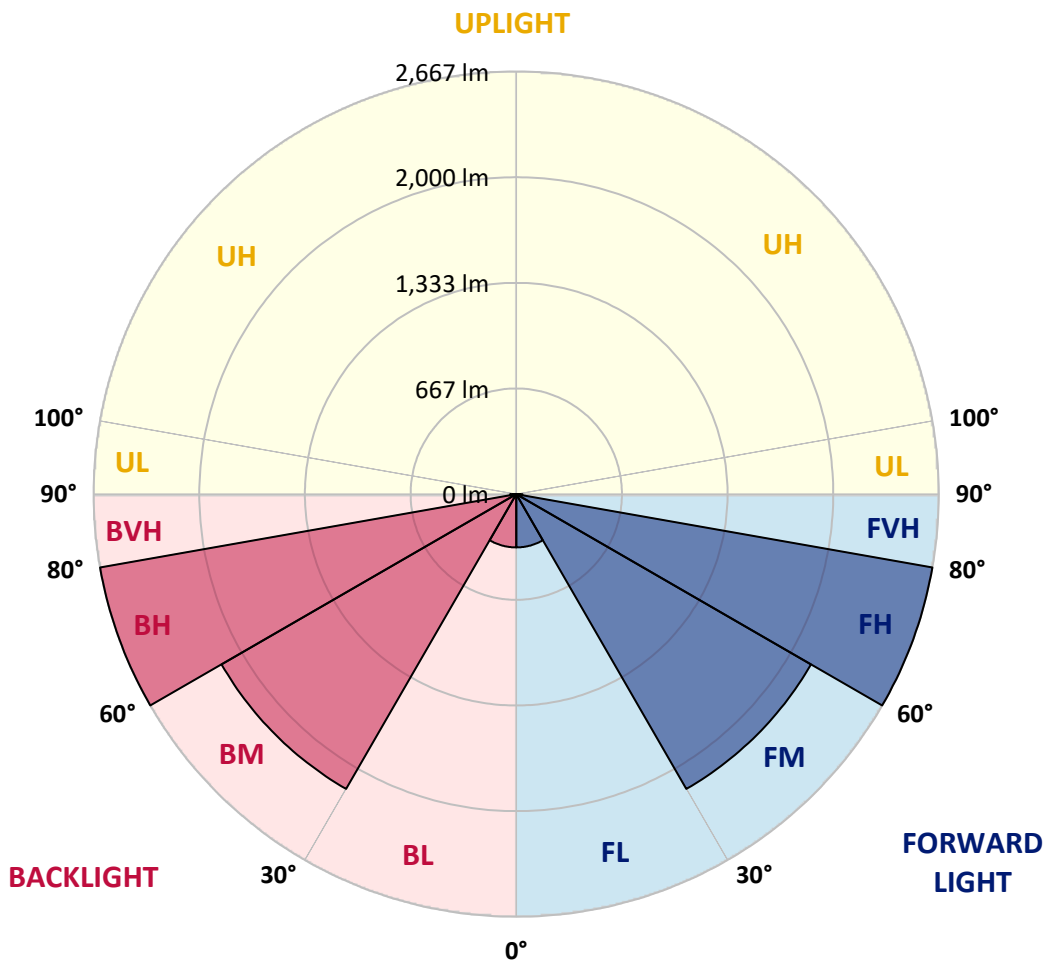
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.9	3.2			
FM (30°-60°)	2147.9	20.7			
FH (60°-80°)	2666.9	25.7			G2/5000
FVH (80°-90°)	38.7	0.4			G1/100
BL (0°-30°)	335.9	3.2	B1/500		
BM (30°-60°)	2147.9	20.7	B2/2500		
BH (60°-80°)	2666.9	25.7	B4/5000		G2/5000
BVH (80°-90°)	38.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5	793.5
2.5°	784.3	786.6	785.5	785.5	788.9	791.2	792.4	803.8	799.3	802.7	799.3
5°	786.6	786.6	788.9	786.6	788.9	786.6	788.9	785.5	788.9	791.2	794.7
7.5°	782.1	779.8	776.3	776.3	775.2	772.9	769.4	778.6	774.0	777.5	783.2
10°	783.2	779.8	768.3	770.6	760.3	760.3	762.6	762.6	772.9	784.3	787.8
12.5°	783.2	776.3	772.9	758.0	758.0	759.1	764.9	767.1	774.0	778.6	790.1
15°	783.2	779.8	774.0	754.5	759.1	756.8	762.6	762.6	777.5	785.5	791.2
17.5°	787.8	790.1	779.8	761.4	762.6	767.1	763.7	767.1	785.5	791.2	799.3
20°	788.9	779.8	776.3	764.9	775.2	772.9	771.7	778.6	784.3	794.7	803.8
22.5°	786.6	790.1	776.3	775.2	784.3	788.9	791.2	783.2	790.1	797.0	805.0
25°	806.1	793.5	790.1	787.8	792.4	797.0	794.7	801.5	801.5	809.6	819.9
27.5°	858.9	860.0	853.2	825.6	816.5	806.1	810.7	829.1	850.9	868.1	871.5
30°	883.0	887.6	905.9	901.3	897.9	901.3	900.2	904.8	907.0	908.2	904.8
32.5°	904.8	902.5	894.4	915.1	982.7	1034.3	985.0	917.4	902.5	897.9	902.5
35°	983.9	983.9	966.7	940.3	975.8	988.5	965.5	933.4	951.8	989.6	991.9
37.5°	1085.9	1071.0	1077.9	1074.5	1035.5	1008.0	1048.1	1068.7	1072.2	1071.0	1082.5
40°	1146.7	1136.4	1126.1	1144.4	1180.0	1205.2	1169.6	1120.3	1132.9	1158.2	1147.9
42.5°	1285.5	1259.1	1261.4	1243.0	1241.9	1233.9	1225.8	1229.3	1247.6	1276.3	1280.9
45°	1427.7	1440.3	1432.2	1397.8	1413.9	1413.9	1391.0	1408.2	1417.3	1450.6	1455.2
47.5°	1650.1	1644.4	1647.8	1616.9	1615.7	1623.7	1615.7	1616.9	1645.5	1643.2	1630.6
50°	1910.4	1926.5	1931.1	1916.1	1897.8	1894.4	1881.7	1897.8	1915.0	1916.1	1905.8
52.5°	2270.5	2287.7	2287.7	2292.3	2315.2	2303.7	2301.4	2302.6	2269.3	2246.4	2257.9
55°	2724.6	2730.3	2749.8	2789.9	2859.9	2869.1	2825.5	2806.0	2745.2	2708.5	2737.2
57.5°	3172.9	3195.9	3249.8	3354.1	3440.1	3534.2	3408.0	3279.6	3160.3	3101.8	3112.2
60°	3545.6	3578.9	3682.1	3827.7	4066.2	4152.2	3938.9	3718.8	3476.8	3297.9	3370.2
62.5°	3721.1	3772.7	3859.8	4154.5	4512.3	4636.1	4323.1	3922.9	3555.9	3383.9	3380.5
64°	3722.2	3730.2	3904.5	4222.2	4590.3	4829.9	4416.0	3922.9	3575.4	3363.3	3402.3
65°	3645.4	3678.6	3847.2	4160.3	4541.0	4846.0	4383.9	3869.0	3495.2	3330.0	3348.4
67.5°	3296.8	3295.6	3451.6	3762.3	4291.0	4663.7	4110.9	3567.4	3296.8	3117.9	3139.7
70°	2501.0	2541.1	2690.2	3072.0	3713.0	4112.1	3594.9	3031.9	2694.8	2551.4	2543.4
72.5°	1496.5	1549.2	1739.6	2205.1	2884.0	3369.0	2853.0	2243.0	1837.0	1610.0	1615.7
75°	682.3	721.3	852.0	1231.6	1921.9	2463.1	1933.3	1296.9	930.0	785.5	764.9
77.5°	191.5	215.6	287.8	565.3	1055.0	1477.0	1084.8	625.0	405.9	337.1	330.3
80°	86.0	90.6	102.1	137.6	334.8	651.3	448.4	229.3	152.5	126.1	120.4
82.5°	47.0	50.5	66.5	71.1	95.2	173.2	147.9	107.8	91.7	73.4	71.1
85°	26.4	27.5	37.8	37.8	45.9	50.5	53.9	57.3	56.2	41.3	40.1
87.5°	8.0	9.2	11.5	11.5	11.5	11.5	18.3	25.2	27.5	19.5	19.5
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)