

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: P479853

Luminaire Tested: **IFLD-M-SA4A-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479853
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-827-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

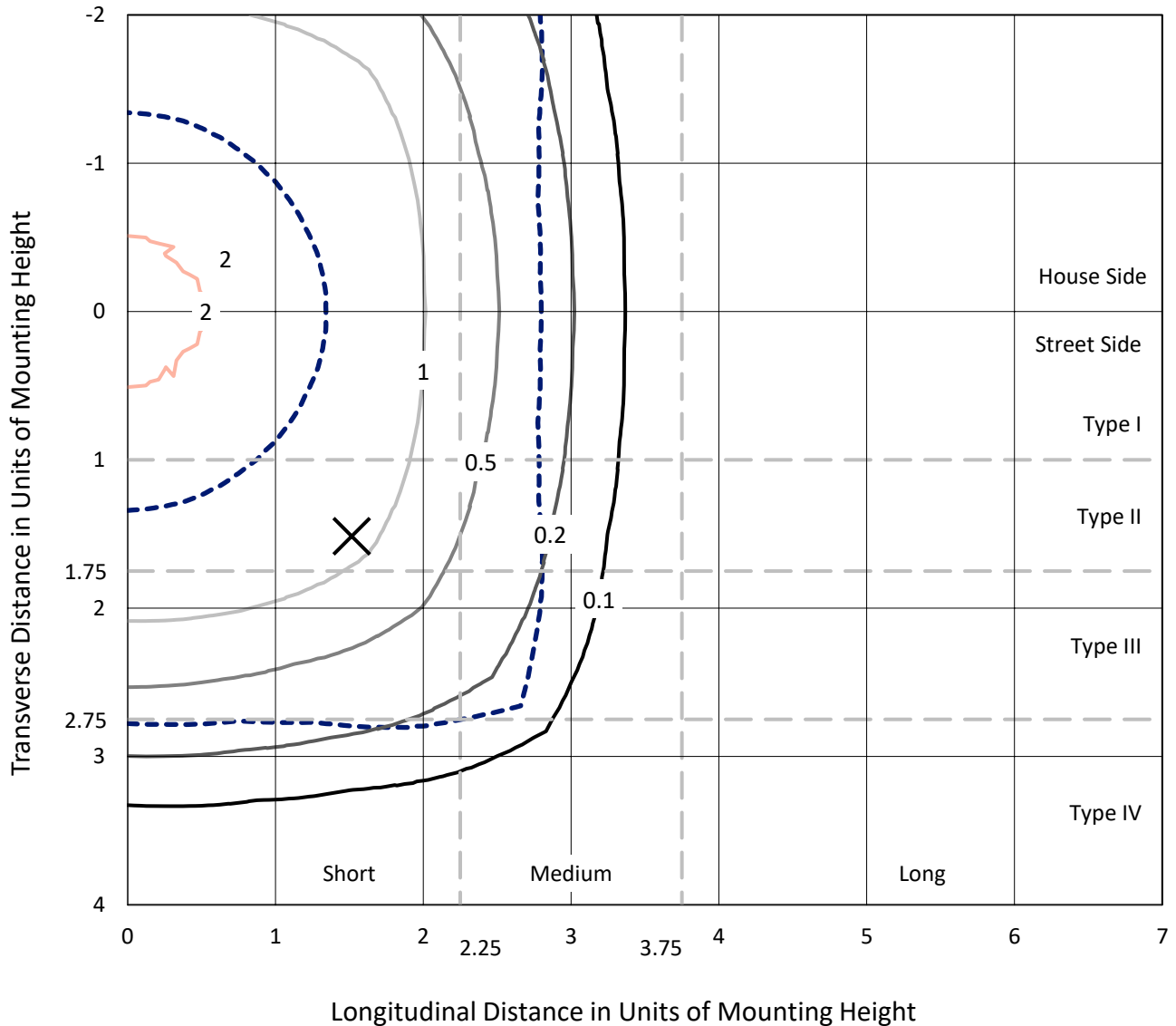
Lumens per Lamp: N/A
Luminaire Lumens: 13930.9 lumens
Efficiency: N/A
Efficacy: 108.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

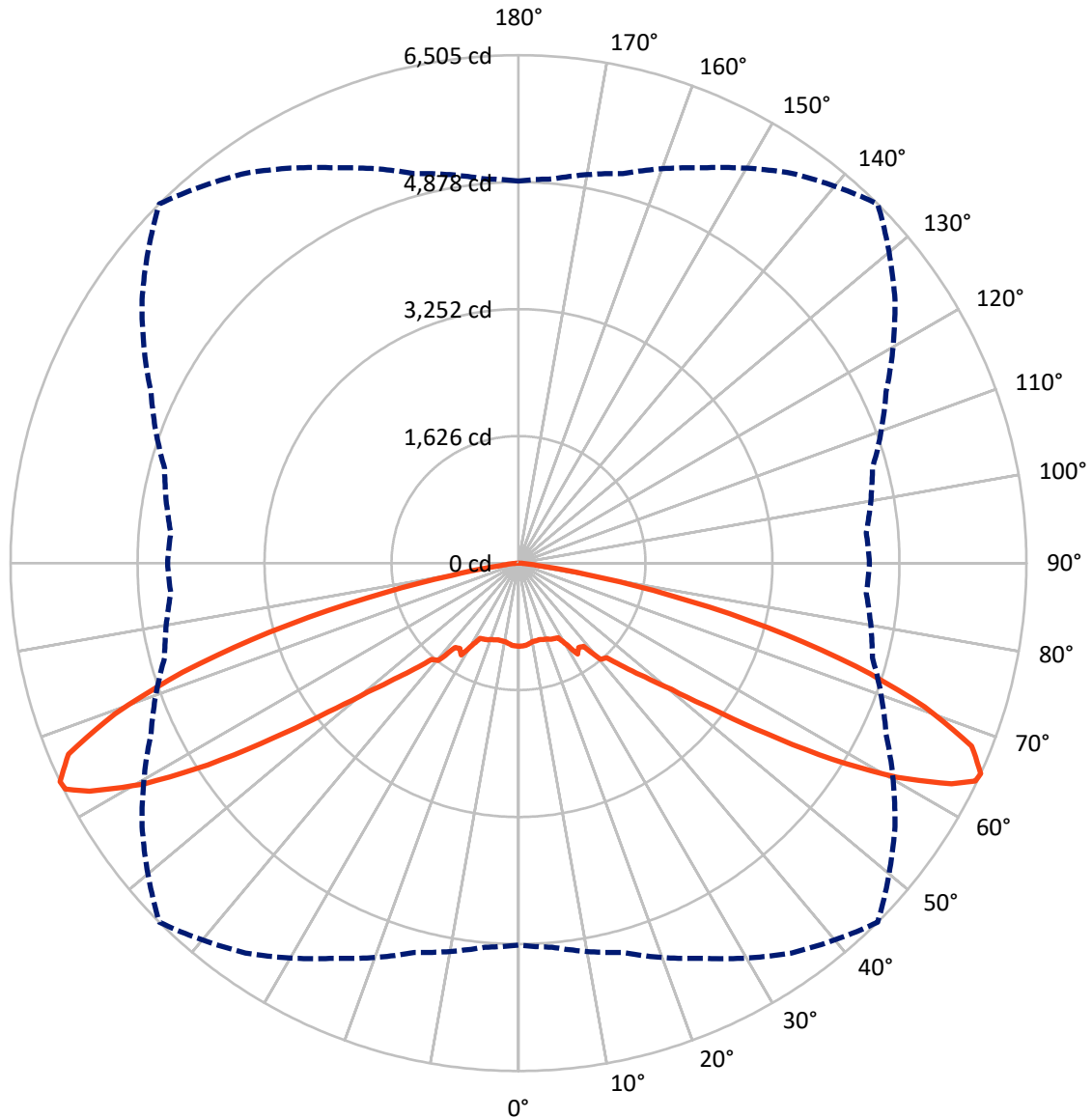
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 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
House Side	Lumens	6965.4	0.0	6965.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6965.4	0.0	6965.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	13930.9	0.0	13930.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	0.7
10°-20°	293.6	2.1
20°-30°	508.2	3.6
30°-40°	845.1	6.1
40°-50°	1524.6	10.9
50°-60°	3396.3	24.4
60°-70°	5061.6	36.3
70°-80°	2097.6	15.1
80°-90°	103.9	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°	13930.9	100.0
0°-180°	13930.9	100.0

Coefficient of Utilization



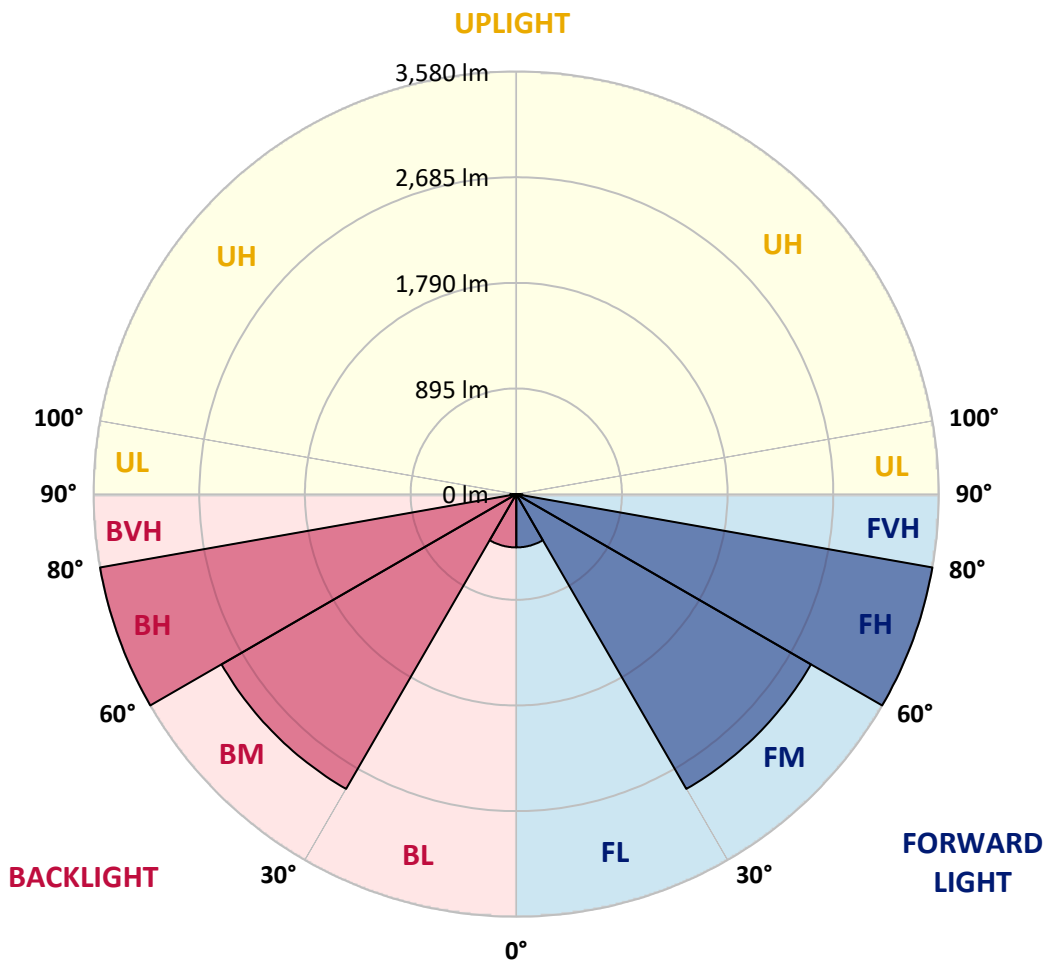
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	450.9	3.2			
FM (30°-60°)	2883.0	20.7			
FH (60°-80°)	3579.6	25.7			G2/5000
FVH (80°-90°)	51.9	0.4			G1/100
BL (0°-30°)	450.9	3.2	B1/500		
BM (30°-60°)	2883.0	20.7	B3/5000		
BH (60°-80°)	3579.6	25.7	B4/5000		G2/5000
BVH (80°-90°)	51.9	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°	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1	1065.1
2.5°	1052.8	1055.9	1054.3	1054.3	1058.9	1062.0	1063.6	1079.0	1072.8	1077.4	1072.8
5°	1055.9	1055.9	1058.9	1055.9	1058.9	1055.9	1058.9	1054.3	1058.9	1062.0	1066.6
7.5°	1049.7	1046.6	1042.0	1042.0	1040.5	1037.4	1032.8	1045.1	1038.9	1043.6	1051.3
10°	1051.3	1046.6	1031.2	1034.3	1020.5	1020.5	1023.5	1023.5	1037.4	1052.8	1057.4
12.5°	1051.3	1042.0	1037.4	1017.4	1017.4	1018.9	1026.6	1029.7	1038.9	1045.1	1060.5
15°	1051.3	1046.6	1038.9	1012.8	1018.9	1015.9	1023.5	1023.5	1043.6	1054.3	1062.0
17.5°	1057.4	1060.5	1046.6	1022.0	1023.5	1029.7	1025.1	1029.7	1054.3	1062.0	1072.8
20°	1058.9	1046.6	1042.0	1026.6	1040.5	1037.4	1035.9	1045.1	1052.8	1066.6	1079.0
22.5°	1055.9	1060.5	1042.0	1040.5	1052.8	1058.9	1062.0	1051.3	1060.5	1069.7	1080.5
25°	1082.0	1065.1	1060.5	1057.4	1063.6	1069.7	1066.6	1075.9	1075.9	1086.7	1100.5
27.5°	1152.8	1154.4	1145.1	1108.2	1095.9	1082.0	1088.2	1112.8	1142.1	1165.1	1169.8
30°	1185.2	1191.3	1215.9	1209.8	1205.2	1209.8	1208.2	1214.4	1217.5	1219.0	1214.4
32.5°	1214.4	1211.3	1200.6	1228.3	1319.1	1388.3	1322.1	1231.3	1211.3	1205.2	1211.3
35°	1320.6	1320.6	1297.5	1262.1	1309.8	1326.8	1296.0	1252.9	1277.5	1328.3	1331.4
37.5°	1457.6	1437.6	1446.8	1442.2	1389.9	1352.9	1406.8	1434.5	1439.1	1437.6	1453.0
40°	1539.2	1525.3	1511.5	1536.1	1583.8	1617.7	1570.0	1503.8	1520.7	1554.6	1540.7
42.5°	1725.4	1690.0	1693.1	1668.5	1666.9	1656.1	1645.4	1650.0	1674.6	1713.1	1719.2
45°	1916.3	1933.2	1922.4	1876.2	1897.8	1897.8	1867.0	1890.1	1902.4	1947.0	1953.2
47.5°	2214.9	2207.2	2211.8	2170.2	2168.7	2179.5	2168.7	2170.2	2208.7	2205.6	2188.7
50°	2564.3	2585.8	2592.0	2571.9	2547.3	2542.7	2525.8	2547.3	2570.4	2571.9	2558.1
52.5°	3047.6	3070.6	3070.6	3076.8	3107.6	3092.2	3089.1	3090.6	3046.0	3015.2	3030.6
55°	3657.1	3664.8	3690.9	3744.8	3838.7	3851.0	3792.5	3766.3	3684.8	3635.5	3674.0
57.5°	4258.9	4289.7	4362.0	4502.1	4617.5	4743.7	4574.4	4402.0	4241.9	4163.4	4177.3
60°	4759.1	4803.7	4942.3	5137.7	5457.9	5573.3	5287.0	4991.5	4666.8	4426.6	4523.6
62.5°	4994.6	5063.9	5180.8	5576.4	6056.6	6222.9	5802.7	5265.5	4773.0	4542.1	4537.5
64°	4996.1	5006.9	5240.9	5667.2	6161.3	6483.0	5927.3	5265.5	4799.1	4514.4	4566.7
65°	4893.0	4937.6	5163.9	5584.1	6095.1	6504.5	5884.2	5193.1	4691.4	4469.7	4494.4
67.5°	4425.1	4423.6	4632.9	5050.0	5759.6	6259.8	5517.9	4788.3	4425.1	4185.0	4214.2
70°	3356.9	3410.8	3610.9	4123.4	4983.8	5519.5	4825.3	4069.6	3617.0	3424.6	3413.9
72.5°	2008.6	2079.4	2334.9	2959.8	3871.0	4522.1	3829.4	3010.6	2465.7	2161.0	2168.7
75°	915.8	968.1	1143.6	1653.1	2579.6	3306.1	2595.0	1740.8	1248.3	1054.3	1026.6
77.5°	257.0	289.4	386.3	758.8	1416.0	1982.4	1456.1	838.8	544.9	452.5	443.3
80°	115.4	121.6	137.0	184.7	449.4	874.2	601.8	307.8	204.7	169.3	161.6
82.5°	63.1	67.7	89.3	95.4	127.8	232.4	198.6	144.7	123.1	98.5	95.4
85°	35.4	36.9	50.8	50.8	61.6	67.7	72.3	77.0	75.4	55.4	53.9
87.5°	10.8	12.3	15.4	15.4	15.4	15.4	24.6	33.9	36.9	26.2	26.2
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)