

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: P479834

Luminaire Tested: **IFLD-S-SA3B-827-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479834
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-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

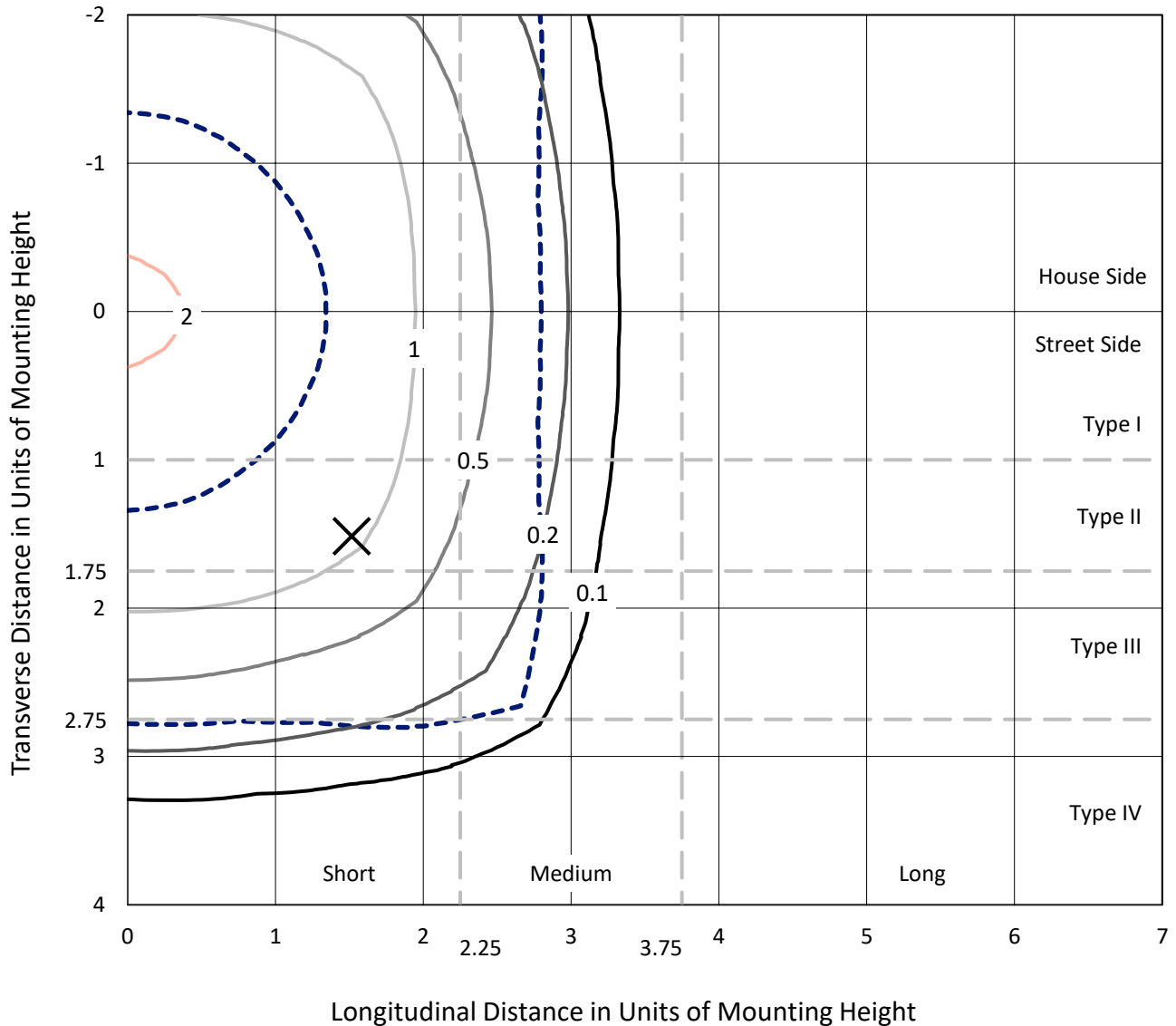
Lumens per Lamp: N/A
Luminaire Lumens: 12836 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 122.4
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

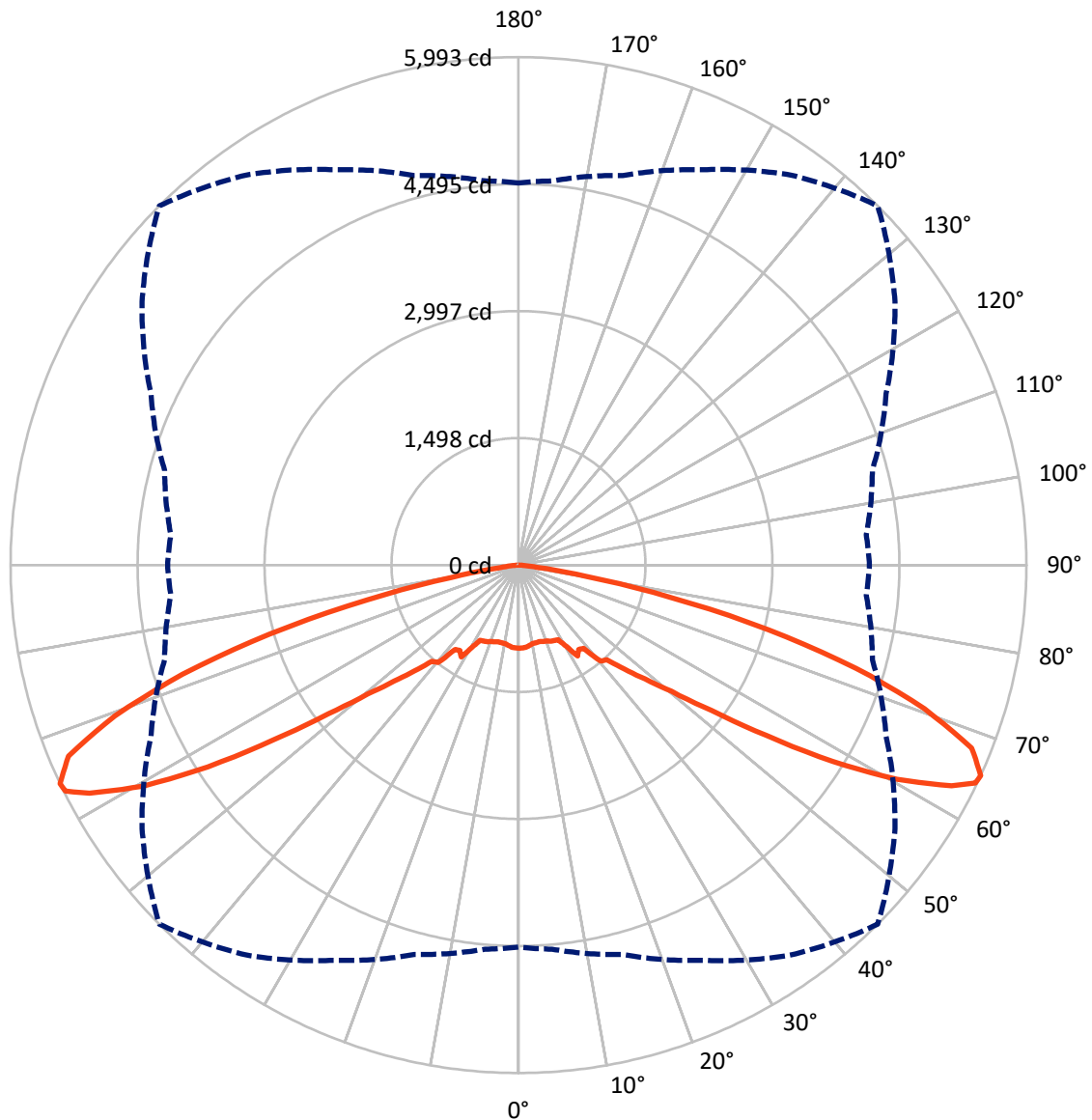
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.5 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	6418.0	0.0	6418.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6418.0	0.0	6418.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	12836.0	0.0	12836.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.1	0.7
10°-20°	270.5	2.1
20°-30°	468.3	3.6
30°-40°	778.6	6.1
40°-50°	1404.8	10.9
50°-60°	3129.4	24.4
60°-70°	4663.8	36.3
70°-80°	1932.7	15.1
80°-90°	95.7	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°	12836.0	100.0
0°-180°	12836.0	100.0

Coefficient of Utilization



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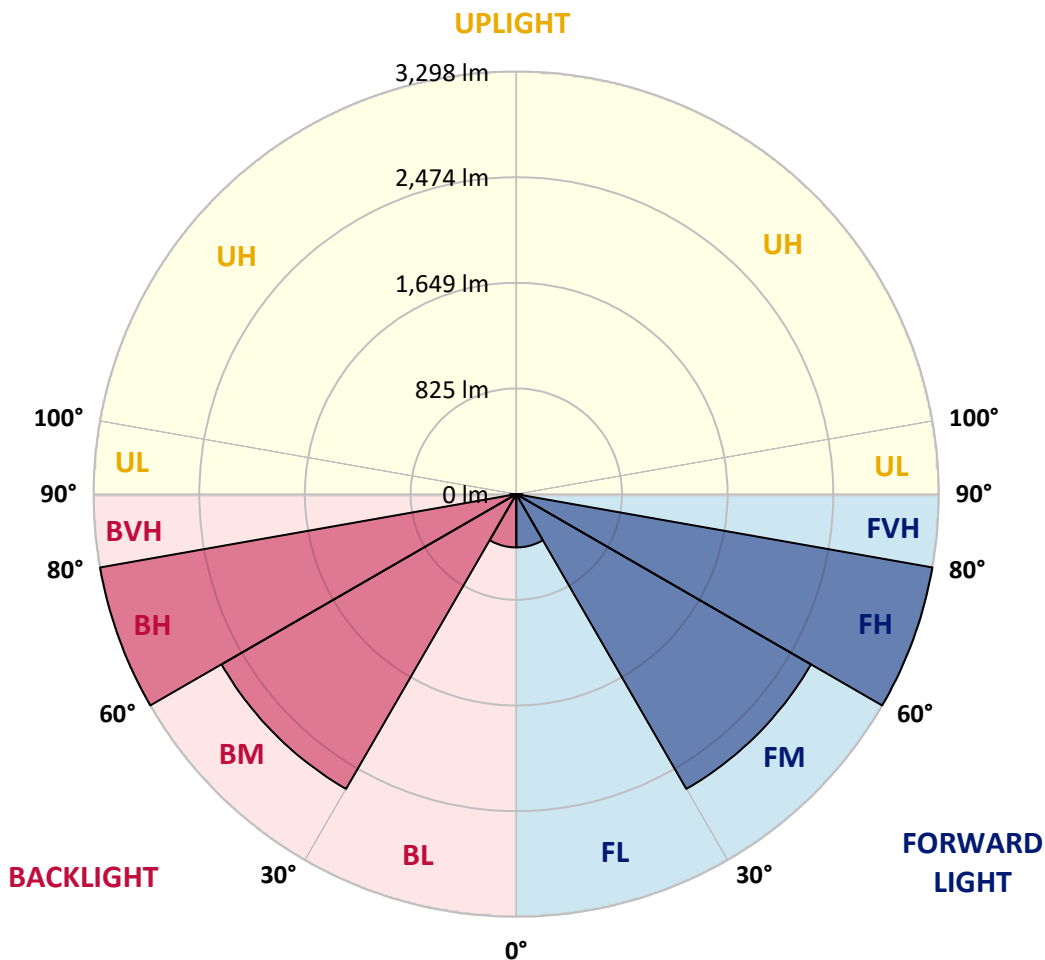
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	415.4	3.2			
FM (30°-60°)	2656.4	20.7			
FH (60°-80°)	3298.3	25.7			G2/5000
FVH (80°-90°)	47.9	0.4			G1/100
BL (0°-30°)	415.4	3.2	B1/500		
BM (30°-60°)	2656.4	20.7	B3/5000		
BH (60°-80°)	3298.3	25.7	B4/5000		G2/5000
BVH (80°-90°)	47.9	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°	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4	981.4
2.5°	970.0	972.9	971.5	971.5	975.7	978.6	980.0	994.2	988.5	992.7	988.5
5°	972.9	972.9	975.7	972.9	975.7	972.9	975.7	971.5	975.7	978.6	982.8
7.5°	967.2	964.4	960.1	960.1	958.7	955.9	951.6	963.0	957.3	961.5	968.6
10°	968.6	964.4	950.2	953.0	940.3	940.3	943.1	943.1	955.9	970.0	974.3
12.5°	968.6	960.1	955.9	937.4	937.4	938.8	945.9	948.8	957.3	963.0	977.1
15°	968.6	964.4	957.3	933.2	938.8	936.0	943.1	943.1	961.5	971.5	978.6
17.5°	974.3	977.1	964.4	941.7	943.1	948.8	944.5	948.8	971.5	978.6	988.5
20°	975.7	964.4	960.1	945.9	958.7	955.9	954.4	963.0	970.0	982.8	994.2
22.5°	972.9	977.1	960.1	958.7	970.0	975.7	978.6	968.6	977.1	985.6	995.6
25°	997.0	981.4	977.1	974.3	980.0	985.6	982.8	991.3	991.3	1001.2	1014.0
27.5°	1062.2	1063.6	1055.1	1021.1	1009.8	997.0	1002.7	1025.4	1052.3	1073.6	1077.8
30°	1092.0	1097.7	1120.4	1114.7	1110.4	1114.7	1113.3	1119.0	1121.8	1123.2	1119.0
32.5°	1119.0	1116.1	1106.2	1131.7	1215.4	1279.2	1218.2	1134.6	1116.1	1110.4	1116.1
35°	1216.8	1216.8	1195.5	1162.9	1206.9	1222.5	1194.1	1154.4	1177.1	1223.9	1226.7
37.5°	1343.0	1324.6	1333.1	1328.8	1280.6	1246.6	1296.2	1321.8	1326.0	1324.6	1338.8
40°	1418.2	1405.4	1392.7	1415.4	1459.3	1490.5	1446.6	1385.6	1401.2	1432.4	1419.6
42.5°	1589.8	1557.2	1560.0	1537.3	1535.9	1526.0	1516.0	1520.3	1543.0	1578.4	1584.1
45°	1765.6	1781.2	1771.3	1728.8	1748.6	1748.6	1720.3	1741.5	1752.9	1794.0	1799.7
47.5°	2040.8	2033.7	2037.9	1999.6	1998.2	2008.2	1998.2	1999.6	2035.1	2032.3	2016.7
50°	2362.7	2382.6	2388.2	2369.8	2347.1	2342.9	2327.3	2347.1	2368.4	2369.8	2357.0
52.5°	2808.0	2829.3	2829.3	2835.0	2863.3	2849.1	2846.3	2847.7	2806.6	2778.2	2792.4
55°	3369.6	3376.7	3400.8	3450.5	3537.0	3548.3	3494.4	3470.3	3395.1	3349.8	3385.2
57.5°	3924.1	3952.5	4019.2	4148.2	4254.6	4370.9	4214.9	4056.0	3908.5	3836.2	3849.0
60°	4385.0	4426.2	4553.8	4733.9	5028.9	5135.3	4871.5	4599.2	4300.0	4078.7	4168.1
62.5°	4602.0	4665.8	4773.6	5138.1	5580.6	5733.7	5346.6	4851.6	4397.8	4185.1	4180.8
64°	4603.4	4613.4	4828.9	5221.8	5677.0	5973.4	5461.5	4851.6	4421.9	4159.6	4207.8
65°	4508.4	4549.6	4758.0	5145.2	5616.0	5993.3	5421.7	4785.0	4322.6	4118.4	4141.1
67.5°	4077.3	4075.9	4268.8	4653.1	5306.9	5767.8	5084.2	4412.0	4077.3	3856.1	3883.0
70°	3093.1	3142.7	3327.1	3799.3	4592.1	5085.6	4446.0	3749.7	3332.7	3155.5	3145.5
72.5°	1850.7	1916.0	2151.4	2727.2	3566.8	4166.6	3528.5	2774.0	2271.9	1991.1	1998.2
75°	843.8	892.0	1053.7	1523.1	2376.9	3046.3	2391.1	1604.0	1150.2	971.5	945.9
77.5°	236.8	266.6	356.0	699.2	1304.7	1826.6	1341.6	772.9	502.0	416.9	408.4
80°	106.4	112.0	126.2	170.2	414.1	805.5	554.5	283.6	188.6	156.0	148.9
82.5°	58.1	62.4	82.3	87.9	117.7	214.1	182.9	133.3	113.5	90.8	87.9
85°	32.6	34.0	46.8	46.8	56.7	62.4	66.7	70.9	69.5	51.1	49.6
87.5°	9.9	11.3	14.2	14.2	14.2	14.2	22.7	31.2	34.0	24.1	24.1
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)