

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: METALUX

Report Number: P192416

Luminaire Tested: **4WSL-LD2-50-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P192416  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4WSL-LD2-50-UNV-L850-CD1-U  
Description: 4FT Linear Wavestream System, L850  
Light Source: (238) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT50W

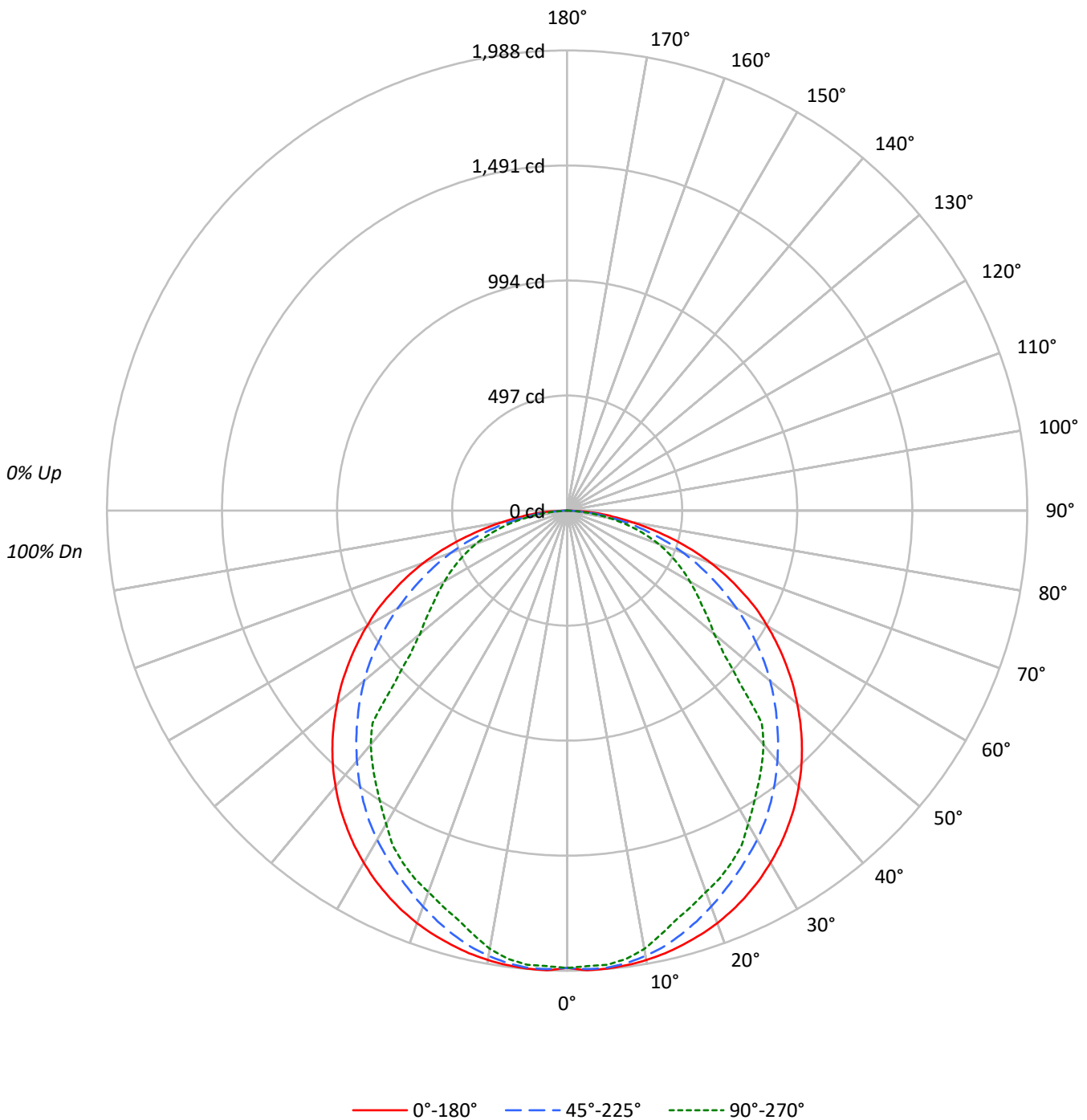
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5503.0 lumens  
Efficiency: N/A  
Efficacy: 122.8 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35  
Luminous Opening: Rectangular (W 0.5' x L: 3.8' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 44.8  
Input Voltage (V): NR  
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: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	11191	11191	11191
5°	11295	11275	11202
10°	11342	11238	11059
15°	11382	11126	10720
20°	11437	10976	10570
25°	11471	10834	10493
30°	11492	10742	10230
35°	11508	10614	9960
40°	11512	10448	9761
45°	11494	10269	8445
50°	11441	10092	7317
55°	11382	9854	7013
60°	11325	9571	6931
65°	11177	9225	6930
70°	10947	8865	6935
75°	10242	8169	6735
80°	9148	7067	6000
85°	8405	5441	4381



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	187.6	3.4
10°-20°	532.5	9.7
20°-30°	802.8	14.6
30°-40°	963.9	17.5
40°-50°	981.7	17.8
50°-60°	861.5	15.7
60°-70°	670.1	12.2
70°-80°	398.6	7.2
80°-90°	104.3	1.9
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°-30°	1523.0	27.7
0°-40°	2486.8	45.2
0°-60°	4330.0	78.7
0°-90°	5503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5503.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1975	1975	1975	1975	1975	
5°	1986	1968	1983	1975	1970	189
15°	1941	1913	1897	1850	1828	548
25°	1835	1793	1733	1688	1679	846
35°	1664	1611	1535	1462	1440	1041
45°	1435	1387	1282	1183	1054	1106
55°	1152	1118	998	799	710	1031
65°	834	801	688	542	517	826
75°	468	444	373	302	308	495
85°	129	115	84	67	67	142
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1975.3	1975.3	1975.3	1975.3	1975.3
2.5°	1988.0	1968.0	1982.6	1978.9	1969.8
5°	1986.2	1968.0	1982.6	1975.3	1969.8
7.5°	1980.8	1962.6	1971.7	1960.7	1953.5
10°	1971.7	1951.6	1953.5	1935.2	1922.5
12.5°	1958.9	1935.2	1929.8	1893.4	1875.2
15°	1940.7	1913.4	1897.0	1849.7	1827.8
17.5°	1920.7	1889.7	1860.6	1807.8	1791.4
20°	1897.0	1860.6	1820.6	1765.9	1753.2
22.5°	1867.9	1829.7	1776.9	1727.7	1720.4
25°	1835.1	1793.2	1733.2	1687.7	1678.6
27.5°	1798.7	1749.6	1687.7	1642.1	1631.2
30°	1756.8	1705.9	1642.1	1589.3	1563.9
32.5°	1713.1	1660.3	1591.2	1523.8	1500.1
35°	1664.0	1611.2	1534.7	1461.9	1440.1
37.5°	1613.0	1558.4	1476.5	1400.0	1381.8
40°	1556.6	1503.8	1412.7	1338.1	1319.9
42.5°	1498.3	1447.3	1349.0	1274.4	1245.3
45°	1434.6	1387.3	1281.7	1183.4	1054.1
47.5°	1367.2	1323.5	1214.3	1068.7	919.4
50°	1298.1	1258.0	1145.1	966.7	830.2
52.5°	1227.1	1190.6	1074.1	877.5	768.3
55°	1152.4	1117.8	997.7	799.2	710.0
57.5°	1077.8	1043.2	924.8	728.2	660.9
60°	999.5	966.7	844.7	662.7	611.7
62.5°	923.0	886.6	766.5	602.6	566.2
65°	833.8	801.0	688.2	542.5	517.0
67.5°	750.1	715.5	611.7	484.3	469.7
70°	660.9	626.3	535.2	424.2	418.7
72.5°	566.2	538.9	455.1	365.9	362.3
75°	467.9	444.2	373.2	302.2	307.7
77.5°	371.4	356.8	294.9	242.1	245.8
80°	280.4	269.4	216.6	180.2	183.9
82.5°	200.3	191.2	147.5	120.2	120.2
85°	129.3	114.7	83.7	67.4	67.4
87.5°	51.0	41.9	25.5	7.3	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)