

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: P192413

Luminaire Tested: **4WSL-LD2-50-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192413
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-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT50W

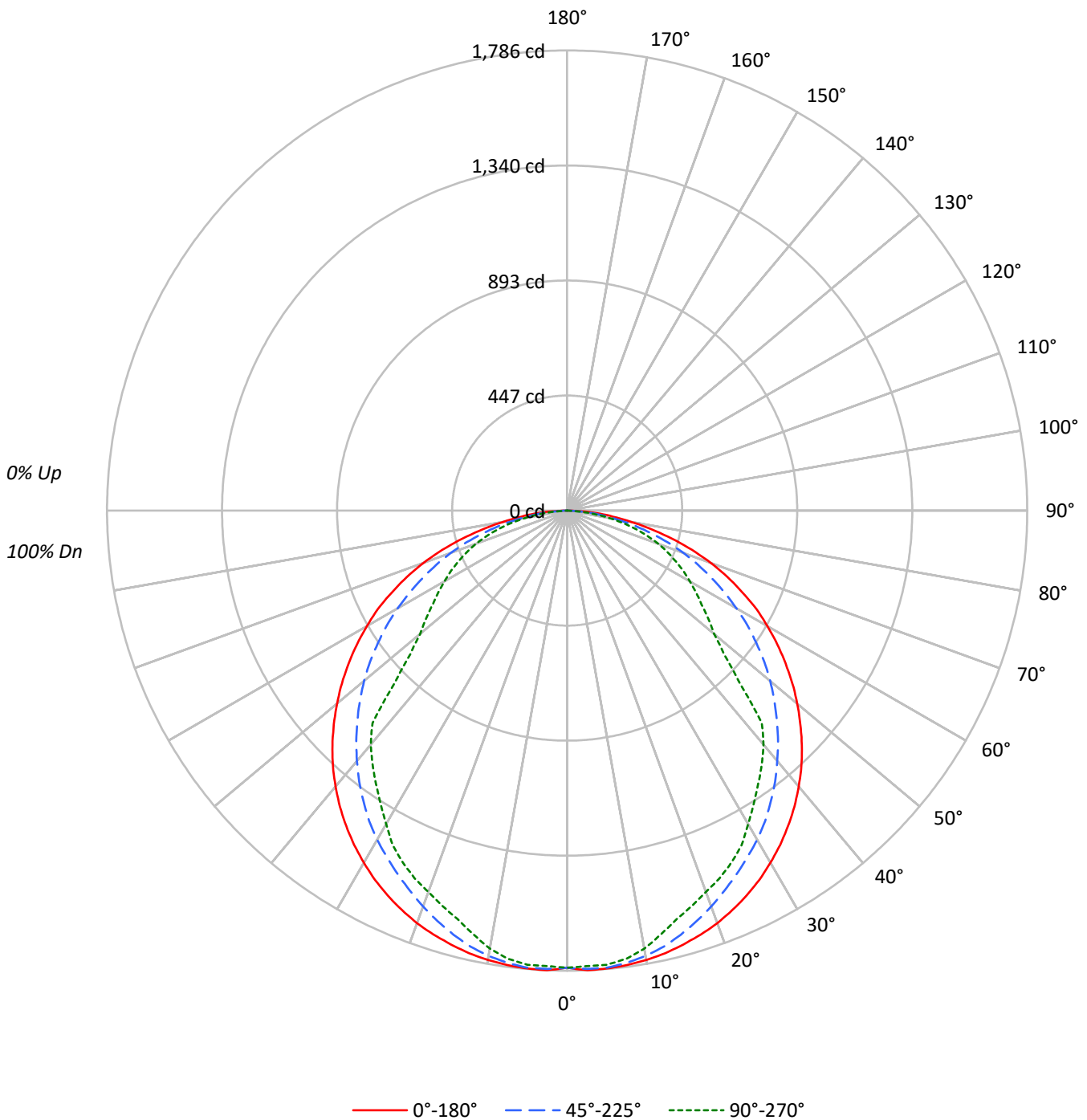
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4943.0 lumens
Efficiency: N/A
Efficacy: 110.3 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°	10052	10052	10052
5°	10146	10127	10062
10°	10188	10094	9934
15°	10224	9994	9629
20°	10273	9859	9494
25°	10304	9731	9424
30°	10323	9649	9189
35°	10337	9534	8946
40°	10340	9385	8768
45°	10324	9223	7586
50°	10277	9066	6572
55°	10224	8851	6300
60°	10172	8598	6226
65°	10040	8286	6225
70°	9832	7964	6230
75°	9200	7337	6050
80°	8215	6349	5390
85°	7547	4888	3933



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	3.4
10°-20°	478.3	9.7
20°-30°	721.1	14.6
30°-40°	865.8	17.5
40°-50°	881.8	17.8
50°-60°	773.8	15.7
60°-70°	601.9	12.2
70°-80°	358.0	7.2
80°-90°	93.7	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°	1368.0	27.7
0°-40°	2233.7	45.2
0°-60°	3889.3	78.7
0°-90°	4943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4943.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1774	1774	1774	1774	1774	
5°	1784	1768	1781	1774	1769	170
15°	1743	1719	1704	1662	1642	493
25°	1648	1611	1557	1516	1508	760
35°	1495	1447	1378	1313	1294	935
45°	1289	1246	1151	1063	947	994
55°	1035	1004	896	718	638	926
65°	749	720	618	487	464	742
75°	420	399	335	272	276	444
85°	116	103	75	60	60	127
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1774.3	1774.3	1774.3	1774.3	1774.3
2.5°	1785.7	1767.7	1780.8	1777.6	1769.4
5°	1784.1	1767.7	1780.8	1774.3	1769.4
7.5°	1779.2	1762.8	1771.0	1761.2	1754.7
10°	1771.0	1753.0	1754.7	1738.3	1726.9
12.5°	1759.6	1738.3	1733.4	1700.7	1684.3
15°	1743.2	1718.7	1704.0	1661.5	1641.8
17.5°	1725.2	1697.4	1671.3	1623.8	1609.1
20°	1704.0	1671.3	1635.3	1586.2	1574.8
22.5°	1677.8	1643.5	1596.0	1551.9	1545.3
25°	1648.4	1610.8	1556.8	1515.9	1507.7
27.5°	1615.7	1571.5	1515.9	1475.0	1465.2
30°	1578.1	1532.3	1475.0	1427.6	1404.7
32.5°	1538.8	1491.4	1429.2	1368.7	1347.5
35°	1494.7	1447.2	1378.5	1313.1	1293.5
37.5°	1448.9	1399.8	1326.2	1257.5	1241.2
40°	1398.2	1350.7	1269.0	1201.9	1185.6
42.5°	1345.8	1300.1	1211.7	1144.7	1118.5
45°	1288.6	1246.1	1151.2	1062.9	946.8
47.5°	1228.1	1188.9	1090.7	959.9	825.8
50°	1166.0	1130.0	1028.6	868.3	745.7
52.5°	1102.2	1069.5	964.8	788.2	690.1
55°	1035.1	1004.1	896.1	717.9	637.8
57.5°	968.1	937.0	830.7	654.1	593.6
60°	897.8	868.3	758.8	595.2	549.5
62.5°	829.1	796.4	688.5	541.3	508.6
65°	749.0	719.5	618.1	487.3	464.4
67.5°	673.7	642.7	549.5	435.0	421.9
70°	593.6	562.5	480.8	381.0	376.1
72.5°	508.6	484.0	408.8	328.7	325.4
75°	420.3	399.0	335.2	271.5	276.4
77.5°	333.6	320.5	264.9	217.5	220.8
80°	251.8	242.0	194.6	161.9	165.2
82.5°	179.9	171.7	132.5	107.9	107.9
85°	116.1	103.0	75.2	60.5	60.5
87.5°	45.8	37.6	22.9	6.5	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)