

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: P192408

Luminaire Tested: **4WSL-LD2-40-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

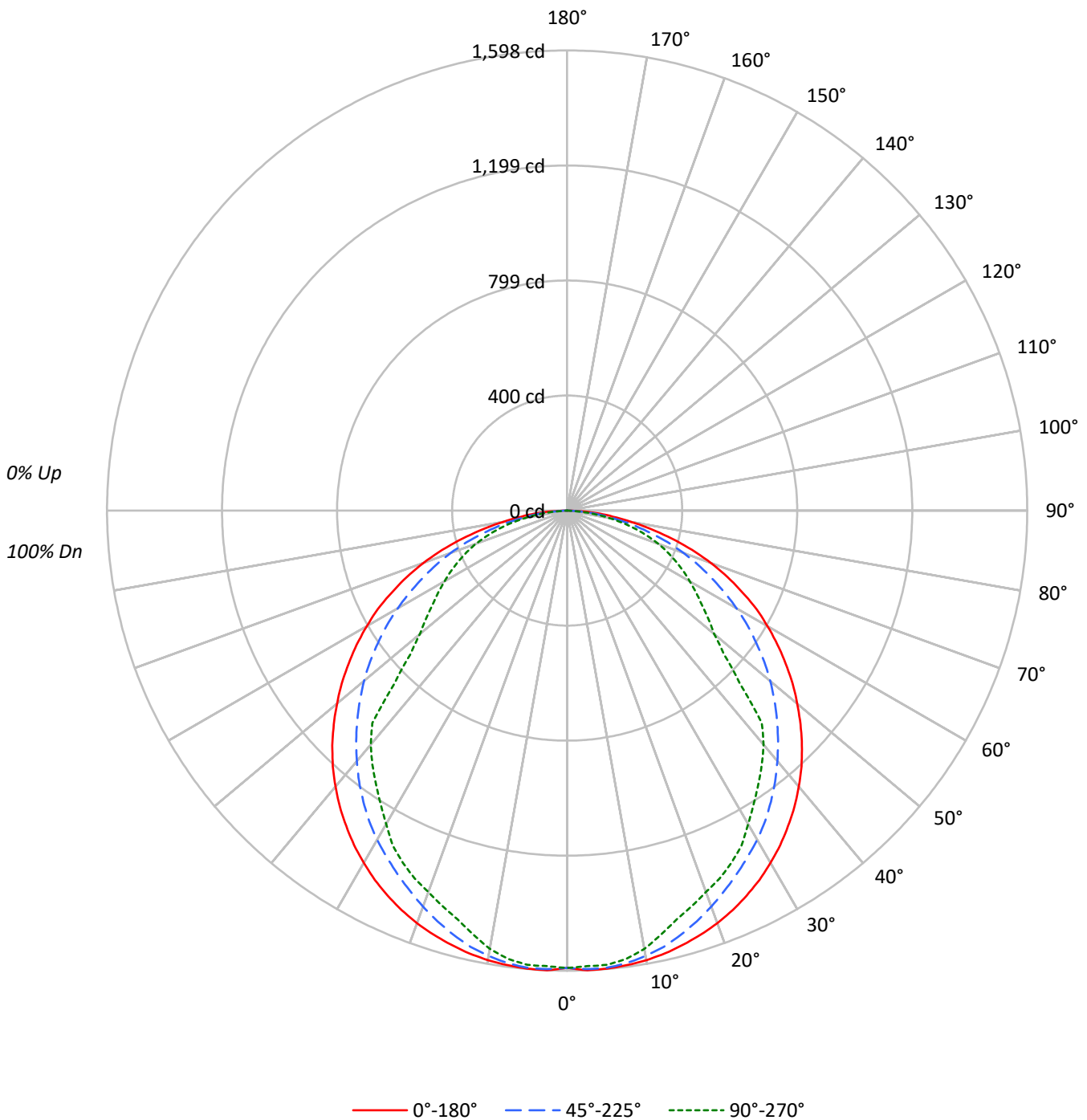
Test Method: LM-79-08  
Report Number: P192408  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4WSL-LD2-40-UNV-L850-CD1-U  
Description: 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: 4424.0 lumens  
Efficiency: N/A  
Efficacy: 126.0 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): 35.1  
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°	8996	8996	8996
5°	9081	9064	9006
10°	9118	9034	8891
15°	9151	8945	8618
20°	9195	8824	8497
25°	9222	8709	8435
30°	9239	8636	8224
35°	9251	8533	8007
40°	9255	8399	7847
45°	9240	8255	6789
50°	9197	8114	5882
55°	9151	7921	5638
60°	9104	7694	5572
65°	8985	7416	5572
70°	8800	7127	5575
75°	8232	6567	5413
80°	7354	5683	4822
85°	6754	4375	3523



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	150.9	3.4
10°-20°	428.1	9.7
20°-30°	645.4	14.6
30°-40°	774.9	17.5
40°-50°	789.2	17.8
50°-60°	692.6	15.7
60°-70°	538.7	12.2
70°-80°	320.4	7.2
80°-90°	83.9	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°	1224.3	27.7
0°-40°	1999.2	45.2
0°-60°	3481.0	78.7
0°-90°	4424.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4424.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1588	1588	1588	1588	1588	
5°	1597	1582	1594	1588	1584	152
15°	1560	1538	1525	1487	1469	441
25°	1475	1442	1393	1357	1349	680
35°	1338	1295	1234	1175	1158	837
45°	1153	1115	1030	951	847	889
55°	926	899	802	642	571	828
65°	670	644	553	436	416	664
75°	376	357	300	243	247	398
85°	104	92	67	54	54	114
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1588.0	1588.0	1588.0	1588.0	1588.0
2.5°	1598.2	1582.1	1593.8	1590.9	1583.6
5°	1596.8	1582.1	1593.8	1588.0	1583.6
7.5°	1592.4	1577.7	1585.1	1576.3	1570.4
10°	1585.1	1569.0	1570.4	1555.8	1545.5
12.5°	1574.8	1555.8	1551.4	1522.1	1507.5
15°	1560.2	1538.2	1525.1	1487.0	1469.4
17.5°	1544.1	1519.2	1495.8	1453.3	1440.2
20°	1525.1	1495.8	1463.6	1419.7	1409.4
22.5°	1501.6	1470.9	1428.5	1388.9	1383.1
25°	1475.3	1441.6	1393.3	1356.7	1349.4
27.5°	1446.0	1406.5	1356.7	1320.2	1311.4
30°	1412.4	1371.4	1320.2	1277.7	1257.2
32.5°	1377.2	1334.8	1279.2	1225.0	1206.0
35°	1337.7	1295.3	1233.8	1175.3	1157.7
37.5°	1296.7	1252.8	1187.0	1125.5	1110.9
40°	1251.4	1208.9	1135.7	1075.7	1061.1
42.5°	1204.5	1163.6	1084.5	1024.5	1001.1
45°	1153.3	1115.3	1030.4	951.3	847.4
47.5°	1099.2	1064.0	976.2	859.1	739.1
50°	1043.5	1011.3	920.6	777.2	667.4
52.5°	986.5	957.2	863.5	705.4	617.6
55°	926.5	898.6	802.0	642.5	570.8
57.5°	866.4	838.6	743.5	585.4	531.3
60°	803.5	777.2	679.1	532.7	491.8
62.5°	742.0	712.8	616.2	484.4	455.2
65°	670.3	644.0	553.2	436.1	415.7
67.5°	603.0	575.2	491.8	389.3	377.6
70°	531.3	503.5	430.3	341.0	336.6
72.5°	455.2	433.2	365.9	294.2	291.3
75°	376.1	357.1	300.0	243.0	247.3
77.5°	298.6	286.9	237.1	194.7	197.6
80°	225.4	216.6	174.2	144.9	147.8
82.5°	161.0	153.7	118.6	96.6	96.6
85°	103.9	92.2	67.3	54.2	54.2
87.5°	41.0	33.7	20.5	5.9	2.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)