

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: P192404

Luminaire Tested: **4WSL-LD2-35-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

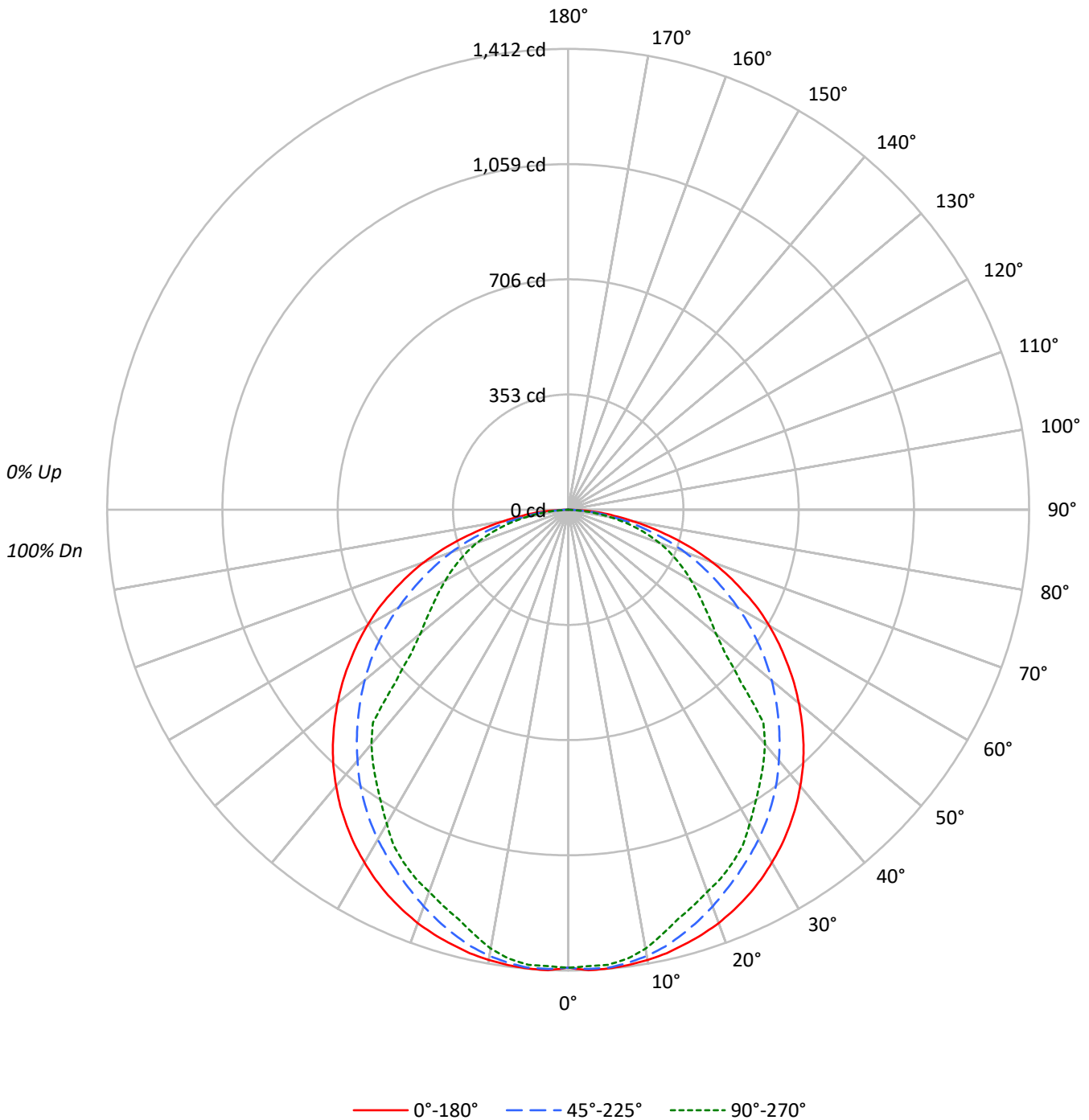
Test Method: LM-79-08  
Report Number: P192404  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4WSL-LD2-35-UNV-L850-CD1-U  
Description: 4FT Linear Wavestream System, L850  
Light Source: (238) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT30W

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3910.0 lumens  
Efficiency: N/A  
Efficacy: 127.8 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): 30.6  
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°	7951	7951	7951
5°	8026	8011	7959
10°	8059	7985	7858
15°	8087	7906	7617
20°	8126	7798	7510
25°	8151	7698	7455
30°	8166	7633	7269
35°	8177	7542	7076
40°	8179	7424	6935
45°	8166	7296	6001
50°	8129	7171	5199
55°	8087	7002	4983
60°	8047	6801	4924
65°	7941	6555	4925
70°	7778	6299	4928
75°	7276	5805	4785
80°	6499	5021	4261
85°	5967	3868	3114



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.3	3.4
10°-20°	378.4	9.7
20°-30°	570.4	14.6
30°-40°	684.8	17.5
40°-50°	697.5	17.8
50°-60°	612.1	15.7
60°-70°	476.2	12.2
70°-80°	283.2	7.2
80°-90°	74.1	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°	1082.1	27.7
0°-40°	1766.9	45.2
0°-60°	3076.6	78.7
0°-90°	3910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1411	1398	1409	1404	1400	134
15°	1379	1360	1348	1314	1299	390
25°	1304	1274	1232	1199	1193	601
35°	1182	1145	1090	1039	1023	740
45°	1019	986	911	841	749	786
55°	819	794	709	568	504	732
65°	592	569	489	386	367	587
75°	332	316	265	215	219	351
85°	92	82	60	48	48	101
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1403.5	1403.5	1403.5	1403.5	1403.5
2.5°	1412.5	1398.3	1408.7	1406.1	1399.6
5°	1411.3	1398.3	1408.7	1403.5	1399.6
7.5°	1407.4	1394.4	1400.9	1393.1	1388.0
10°	1400.9	1386.7	1388.0	1375.0	1366.0
12.5°	1391.9	1375.0	1371.2	1345.3	1332.3
15°	1378.9	1359.5	1347.9	1314.2	1298.7
17.5°	1364.7	1342.7	1322.0	1284.5	1272.8
20°	1347.9	1322.0	1293.5	1254.7	1245.7
22.5°	1327.2	1300.0	1262.5	1227.6	1222.4
25°	1303.9	1274.1	1231.5	1199.1	1192.6
27.5°	1278.0	1243.1	1199.1	1166.8	1159.0
30°	1248.3	1212.0	1166.8	1129.3	1111.2
32.5°	1217.2	1179.7	1130.6	1082.7	1065.9
35°	1182.3	1144.8	1090.5	1038.7	1023.2
37.5°	1146.1	1107.3	1049.1	994.7	981.8
40°	1106.0	1068.5	1003.8	950.8	937.8
42.5°	1064.6	1028.4	958.5	905.5	884.8
45°	1019.3	985.7	910.7	840.8	749.0
47.5°	971.5	940.4	862.8	759.3	653.2
50°	922.3	893.8	813.6	686.9	589.9
52.5°	871.8	846.0	763.2	623.5	545.9
55°	818.8	794.2	708.9	567.9	504.5
57.5°	765.8	741.2	657.1	517.4	469.6
60°	710.2	686.9	600.2	470.8	434.6
62.5°	655.8	630.0	544.6	428.2	402.3
65°	592.4	569.2	489.0	385.5	367.4
67.5°	532.9	508.4	434.6	344.1	333.7
70°	469.6	445.0	380.3	301.4	297.5
72.5°	402.3	382.9	323.4	260.0	257.4
75°	332.4	315.6	265.2	214.7	218.6
77.5°	263.9	253.5	209.6	172.0	174.6
80°	199.2	191.4	153.9	128.1	130.6
82.5°	142.3	135.8	104.8	85.4	85.4
85°	91.8	81.5	59.5	47.9	47.9
87.5°	36.2	29.8	18.1	5.2	2.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)