

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: P197380

Luminaire Tested: **8WSL-LD2-100-UNV-L850-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197380  
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: 8WSL-LD2-100-UNV-L850-CD2-U  
Description: 8FT. Linear Wavestream System, L850  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT50W

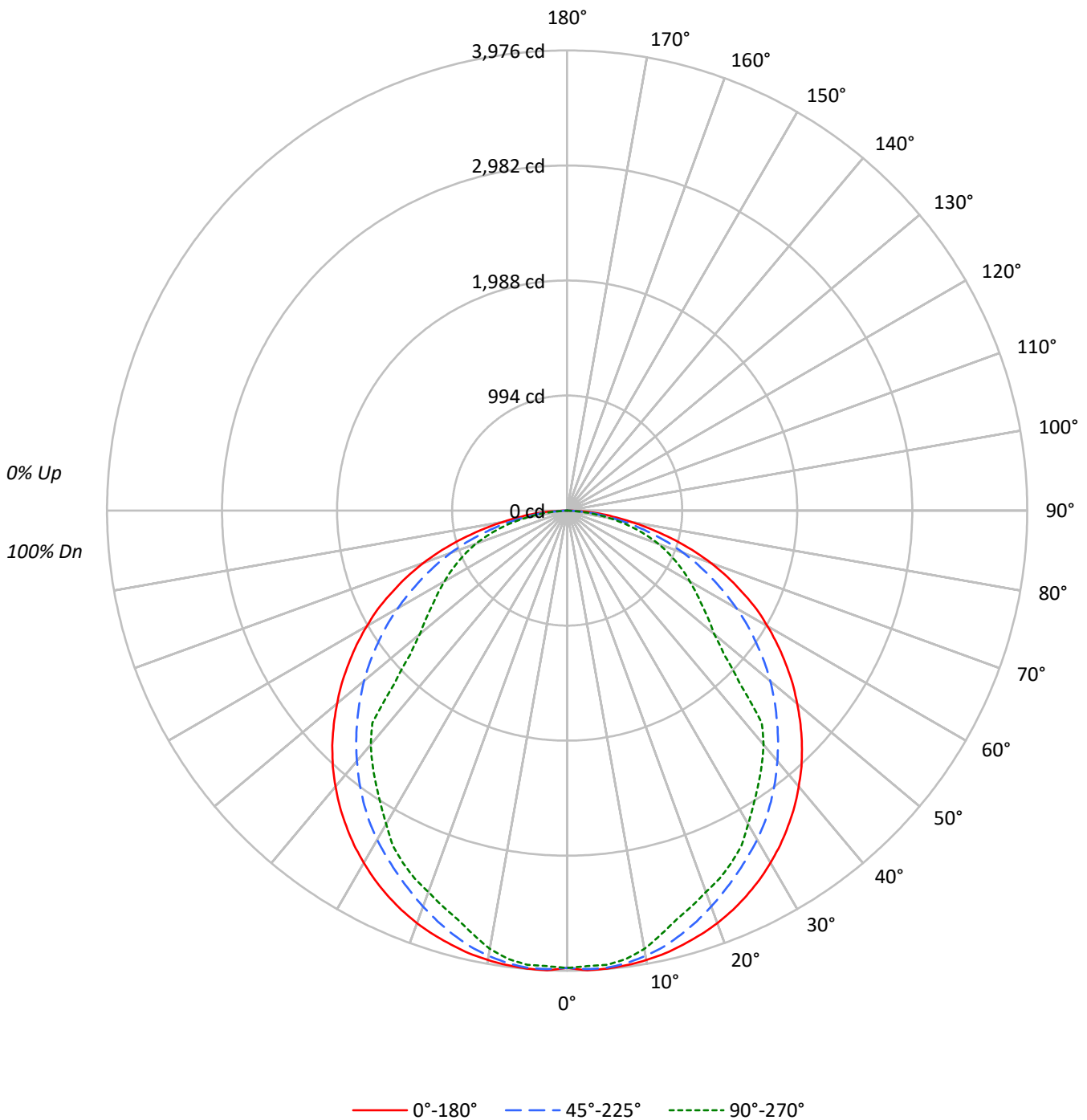
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11006.9 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35  
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 90.6  
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°	11191	11191	11191
5°	11296	11276	11203
10°	11343	11238	11060
15°	11384	11127	10721
20°	11438	10977	10571
25°	11472	10835	10493
30°	11494	10743	10231
35°	11509	10615	9960
40°	11512	10449	9762
45°	11495	10270	8446
50°	11441	10094	7317
55°	11383	9855	7014
60°	11325	9572	6931
65°	11178	9226	6932
70°	10947	8867	6936
75°	10242	8170	6735
80°	9148	7068	6000
85°	8401	5444	4378



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.3	3.4
10°-20°	1065.2	9.7
20°-30°	1605.7	14.6
30°-40°	1927.9	17.5
40°-50°	1963.5	17.8
50°-60°	1723.2	15.7
60°-70°	1340.4	12.2
70°-80°	797.2	7.2
80°-90°	208.6	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°	3046.2	27.7
0°-40°	4974.1	45.2
0°-60°	8660.7	78.7
0°-90°	11006.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11006.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3951	3951	3951	3951	3951	
5°	3973	3936	3966	3951	3940	378
15°	3882	3827	3794	3700	3656	1097
25°	3671	3587	3467	3376	3357	1692
35°	3328	3223	3070	2924	2880	2083
45°	2869	2775	2564	2367	2108	2212
55°	2305	2236	1996	1599	1420	2061
65°	1668	1602	1376	1085	1034	1652
75°	936	888	746	604	615	989
85°	258	229	168	135	135	283
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3950.9	3950.9	3950.9	3950.9	3950.9
2.5°	3976.4	3936.4	3965.5	3958.2	3940.0
5°	3972.8	3936.4	3965.5	3950.9	3940.0
7.5°	3961.9	3925.5	3943.7	3921.8	3907.2
10°	3943.7	3903.6	3907.2	3870.8	3845.3
12.5°	3918.2	3870.8	3859.9	3787.1	3750.7
15°	3881.8	3827.1	3794.4	3699.7	3656.0
17.5°	3841.7	3779.8	3721.5	3615.9	3583.2
20°	3794.4	3721.5	3641.4	3532.2	3506.7
22.5°	3736.1	3659.6	3554.0	3455.7	3441.1
25°	3670.6	3586.8	3466.6	3375.6	3357.4
27.5°	3597.7	3499.4	3375.6	3284.6	3262.7
30°	3514.0	3412.0	3284.6	3179.0	3128.0
32.5°	3426.6	3321.0	3182.6	3047.9	3000.5
35°	3328.3	3222.7	3069.7	2924.1	2880.4
37.5°	3226.3	3117.1	2953.2	2800.3	2763.8
40°	3113.4	3007.8	2825.7	2676.4	2640.0
42.5°	2996.9	2894.9	2698.3	2549.0	2490.7
45°	2869.4	2774.8	2563.6	2366.9	2108.4
47.5°	2734.7	2647.3	2428.8	2137.5	1838.9
50°	2596.3	2516.2	2290.5	1933.6	1660.5
52.5°	2454.3	2381.5	2148.4	1755.2	1536.7
55°	2305.0	2235.8	1995.5	1598.6	1420.2
57.5°	2155.7	2086.5	1849.8	1456.6	1321.8
60°	1999.1	1933.6	1689.6	1325.5	1223.5
62.5°	1846.2	1773.4	1533.0	1205.3	1132.5
65°	1667.8	1602.2	1376.5	1085.1	1034.2
67.5°	1500.3	1431.1	1223.5	968.6	939.5
70°	1321.8	1252.6	1070.6	848.5	837.5
72.5°	1132.5	1077.9	910.4	731.9	724.6
75°	935.8	888.5	746.5	604.5	615.4
77.5°	742.9	713.7	589.9	484.3	491.6
80°	560.8	538.9	433.3	360.5	367.8
82.5°	400.6	382.3	295.0	240.3	240.3
85°	258.5	229.4	167.5	134.7	134.7
87.5°	102.0	83.8	51.0	14.6	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)