

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: P197376

Luminaire Tested: **8WSL-LD2-90-UNV-L850-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197376  
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-LD2-90-UNV-L850-CD2-U  
Description: 8FT. Linear Wavestream System, L850  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT50W

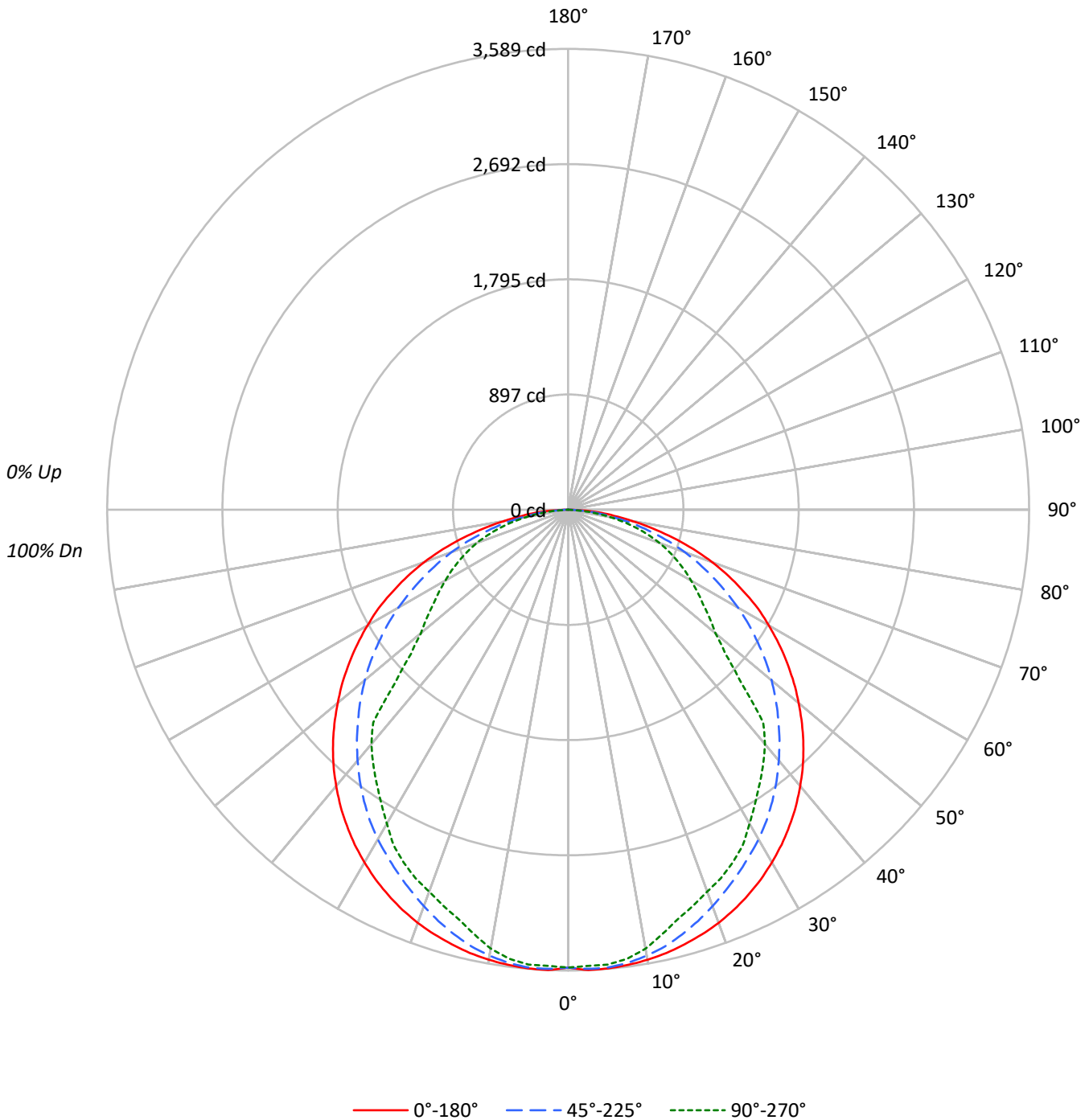
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9934.5 lumens  
Efficiency: N/A  
Efficacy: 123.3 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): 80.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	10101	10101	10101
5°	10196	10177	10112
10°	10238	10143	9983
15°	10274	10043	9677
20°	10323	9907	9541
25°	10354	9779	9471
30°	10374	9696	9234
35°	10388	9581	8990
40°	10391	9431	8811
45°	10375	9269	7623
50°	10327	9110	6604
55°	10274	8895	6330
60°	10222	8639	6256
65°	10089	8327	6256
70°	9880	8003	6260
75°	9245	7374	6078
80°	8256	6380	5414
85°	7586	4914	3952



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	338.8	3.4
10°-20°	961.4	9.7
20°-30°	1449.2	14.6
30°-40°	1740.0	17.5
40°-50°	1772.2	17.8
50°-60°	1555.3	15.7
60°-70°	1209.8	12.2
70°-80°	719.5	7.2
80°-90°	188.3	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°	2749.4	27.7
0°-40°	4489.4	45.2
0°-60°	7816.9	78.7
0°-90°	9934.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9934.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3566	3566	3566	3566	3566	
5°	3586	3553	3579	3566	3556	341
15°	3504	3454	3425	3339	3300	990
25°	3313	3237	3129	3047	3030	1528
35°	3004	2909	2771	2639	2600	1880
45°	2590	2504	2314	2136	1903	1997
55°	2080	2018	1801	1443	1282	1860
65°	1505	1446	1242	979	933	1491
75°	845	802	674	546	555	893
85°	233	207	151	122	122	256
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3566.0	3566.0	3566.0	3566.0	3566.0
2.5°	3589.0	3552.8	3579.1	3572.6	3556.1
5°	3585.7	3552.8	3579.1	3566.0	3556.1
7.5°	3575.8	3543.0	3559.4	3539.7	3526.5
10°	3559.4	3523.3	3526.5	3493.7	3470.7
12.5°	3536.4	3493.7	3483.8	3418.1	3385.2
15°	3503.5	3454.2	3424.7	3339.2	3299.8
17.5°	3467.4	3411.5	3358.9	3263.6	3234.0
20°	3424.7	3358.9	3286.6	3188.0	3165.0
22.5°	3372.1	3303.1	3207.7	3119.0	3105.9
25°	3312.9	3237.3	3128.9	3046.7	3030.3
27.5°	3247.2	3158.4	3046.7	2964.5	2944.8
30°	3171.6	3079.6	2964.5	2869.2	2823.2
32.5°	3092.7	2997.4	2872.5	2750.9	2708.2
35°	3004.0	2908.7	2770.6	2639.2	2599.7
37.5°	2911.9	2813.4	2665.5	2527.4	2494.5
40°	2810.1	2714.8	2550.4	2415.7	2382.8
42.5°	2704.9	2612.9	2435.4	2300.6	2248.1
45°	2589.9	2504.4	2313.8	2136.3	1903.0
47.5°	2468.3	2389.4	2192.2	1929.2	1659.7
50°	2343.4	2271.1	2067.3	1745.2	1498.7
52.5°	2215.2	2149.5	1939.1	1584.2	1387.0
55°	2080.4	2018.0	1801.1	1442.8	1281.8
57.5°	1945.7	1883.2	1669.6	1314.6	1193.0
60°	1804.4	1745.2	1525.0	1196.3	1104.3
62.5°	1666.3	1600.6	1383.7	1087.9	1022.1
65°	1505.3	1446.1	1242.3	979.4	933.4
67.5°	1354.1	1291.6	1104.3	874.2	847.9
70°	1193.0	1130.6	966.3	765.8	755.9
72.5°	1022.1	972.8	821.7	660.6	654.0
75°	844.7	801.9	673.8	545.6	555.4
77.5°	670.5	644.2	532.4	437.1	443.7
80°	506.1	486.4	391.1	325.4	331.9
82.5°	361.5	345.1	266.2	216.9	216.9
85°	233.4	207.1	151.2	121.6	121.6
87.5°	92.0	75.6	46.0	13.1	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)