

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: P197388

Luminaire Tested: **8WSL-LD2-120-UNV-L850-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197388  
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-LD2-120-UNV-L850-CD2-U  
Description: 8FT. Linear Wavestream System, L850  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT50W

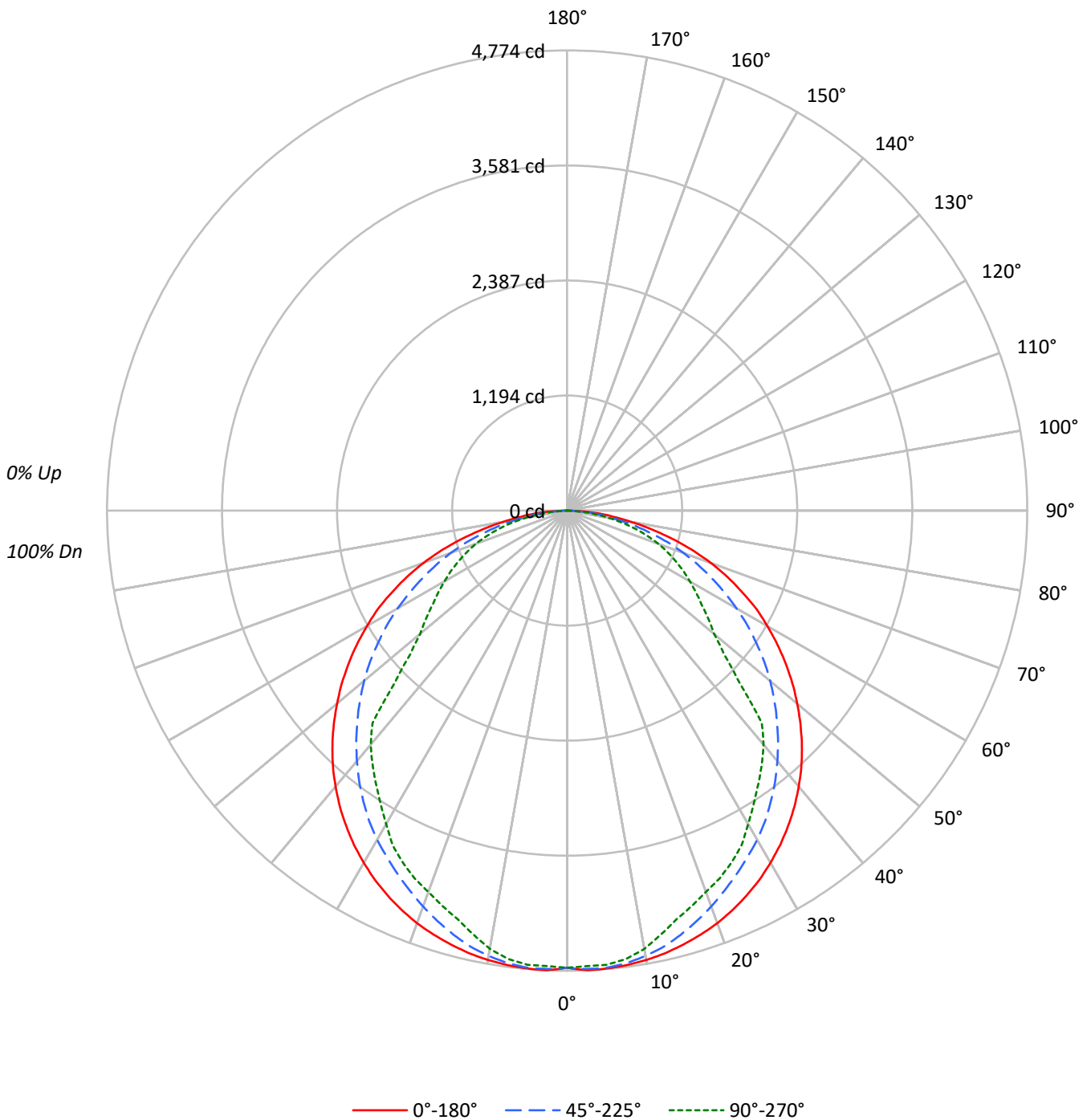
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13213.6 lumens  
Efficiency: N/A  
Efficacy: 116.4 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): 113.5  
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°	13435	13435	13435
5°	13561	13536	13449
10°	13617	13492	13278
15°	13666	13358	12871
20°	13731	13177	12690
25°	13772	13007	12597
30°	13798	12897	12282
35°	13816	12743	11957
40°	13821	12544	11719
45°	13799	12328	10139
50°	13735	12117	8784
55°	13665	11831	8420
60°	13596	11491	8321
65°	13419	11075	8321
70°	13142	10644	8327
75°	12296	9807	8086
80°	10981	8486	7202
85°	10088	6536	5255



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	450.6	3.4
10°-20°	1278.7	9.7
20°-30°	1927.6	14.6
30°-40°	2314.4	17.5
40°-50°	2357.1	17.8
50°-60°	2068.6	15.7
60°-70°	1609.1	12.2
70°-80°	957.0	7.2
80°-90°	250.5	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°	3656.9	27.7
0°-40°	5971.3	45.2
0°-60°	10397.0	78.7
0°-90°	13213.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	13213.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4743	4743	4743	4743	4743	
5°	4769	4726	4760	4743	4730	454
15°	4660	4594	4555	4441	4389	1317
25°	4406	4306	4162	4052	4030	2032
35°	3996	3869	3685	3510	3458	2501
45°	3445	3331	3078	2841	2531	2656
55°	2767	2684	2396	1919	1705	2474
65°	2002	1923	1652	1303	1242	1983
75°	1124	1067	896	726	739	1188
85°	310	275	201	162	162	340
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4743.0	4743.0	4743.0	4743.0	4743.0
2.5°	4773.6	4725.5	4760.5	4751.8	4729.9
5°	4769.3	4725.5	4760.5	4743.0	4729.9
7.5°	4756.1	4712.4	4734.3	4708.1	4690.6
10°	4734.3	4686.2	4690.6	4646.9	4616.3
12.5°	4703.7	4646.9	4633.7	4546.3	4502.6
15°	4660.0	4594.4	4555.1	4441.4	4388.9
17.5°	4611.9	4537.6	4467.6	4340.9	4301.5
20°	4555.1	4467.6	4371.5	4240.3	4209.7
22.5°	4485.1	4393.3	4266.5	4148.5	4131.0
25°	4406.4	4305.9	4161.6	4052.3	4030.5
27.5°	4319.0	4201.0	4052.3	3943.1	3916.8
30°	4218.5	4096.1	3943.1	3816.3	3755.1
32.5°	4113.5	3986.8	3820.7	3658.9	3602.1
35°	3995.5	3868.7	3685.1	3510.3	3457.8
37.5°	3873.1	3742.0	3545.3	3361.7	3317.9
40°	3737.6	3610.8	3392.3	3213.0	3169.3
42.5°	3597.7	3475.3	3239.3	3060.0	2990.1
45°	3444.7	3331.1	3077.5	2841.4	2531.1
47.5°	3283.0	3178.1	2915.8	2566.0	2207.6
50°	3116.8	3020.7	2749.6	2321.2	1993.4
52.5°	2946.4	2858.9	2579.2	2107.0	1844.8
55°	2767.1	2684.1	2395.6	1919.1	1704.9
57.5°	2587.9	2504.8	2220.7	1748.6	1586.8
60°	2399.9	2321.2	2028.4	1591.2	1468.8
62.5°	2216.3	2128.9	1840.4	1447.0	1359.5
65°	2002.1	1923.4	1652.4	1302.7	1241.5
67.5°	1801.0	1718.0	1468.8	1162.8	1127.8
70°	1586.8	1503.8	1285.2	1018.5	1005.4
72.5°	1359.5	1294.0	1092.9	878.7	869.9
75°	1123.5	1066.6	896.1	725.7	738.8
77.5°	891.8	856.8	708.2	581.4	590.1
80°	673.2	647.0	520.2	432.8	441.5
82.5°	480.9	459.0	354.1	288.5	288.5
85°	310.4	275.4	201.1	161.7	161.7
87.5°	122.4	100.5	61.2	17.5	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)