

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: P192432

Luminaire Tested: **4WSL-LD2-70-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P192432  
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-LD2-70-UNV-L850-CD1-U  
Description: 4FT Linear Wavestream System, L850  
Light Source: (238) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT85W1202772A0DIML

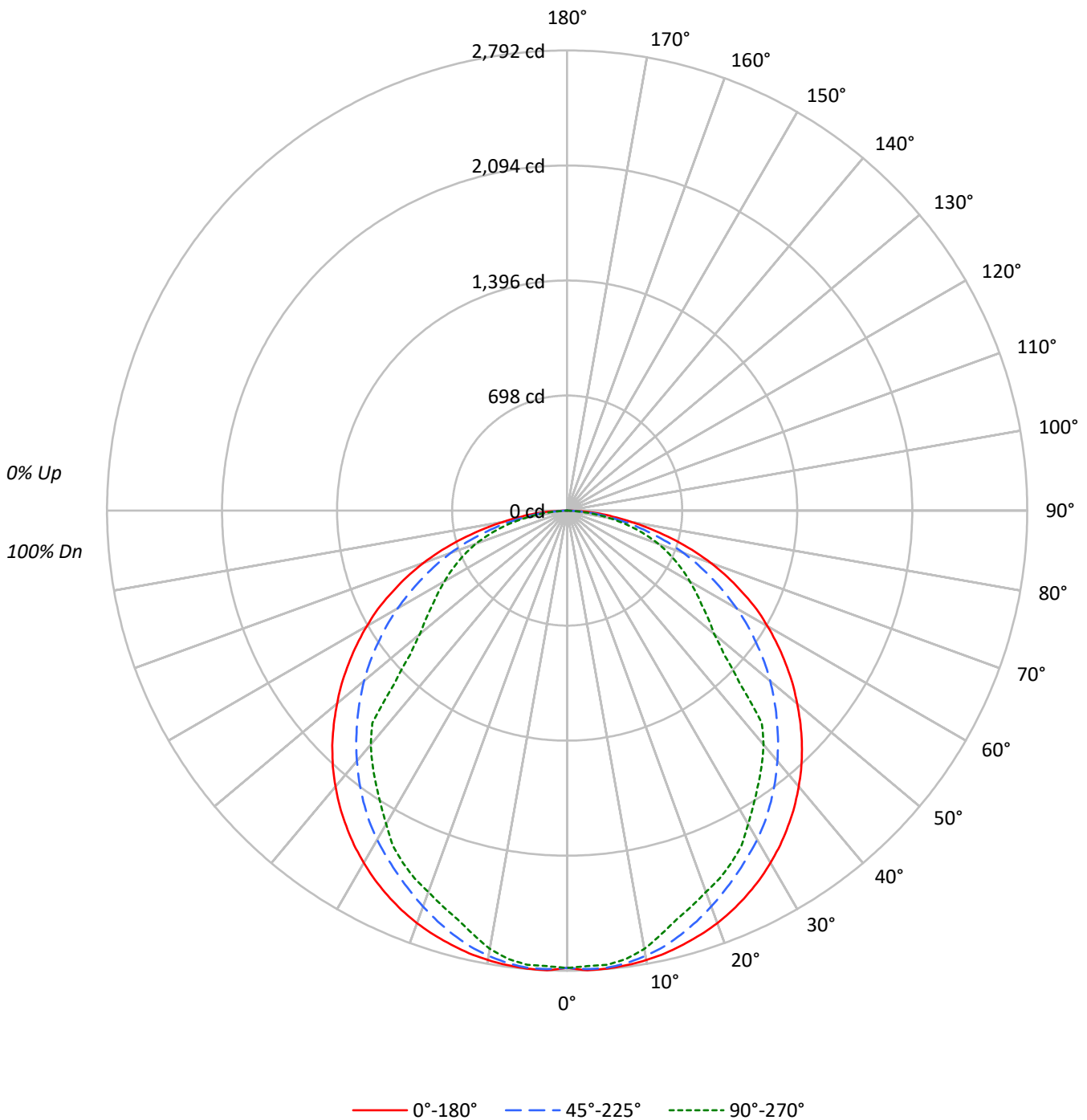
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7729.0 lumens  
Efficiency: N/A  
Efficacy: 112.5 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): 68.7  
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°	15717	15717	15717
5°	15865	15836	15734
10°	15930	15783	15533
15°	15986	15627	15057
20°	16063	15416	14845
25°	16111	15216	14736
30°	16141	15088	14368
35°	16163	14907	13988
40°	16168	14674	13710
45°	16143	14422	11862
50°	16068	14175	10277
55°	15987	13840	9849
60°	15906	13442	9734
65°	15699	12956	9735
70°	15375	12453	9741
75°	14383	11474	9458
80°	12848	9928	8427
85°	11798	7644	6149



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	263.6	3.4
10°-20°	747.9	9.7
20°-30°	1127.5	14.6
30°-40°	1353.7	17.5
40°-50°	1378.7	17.8
50°-60°	1210.0	15.7
60°-70°	941.2	12.2
70°-80°	559.8	7.2
80°-90°	146.5	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°	2139.0	27.7
0°-40°	3492.8	45.2
0°-60°	6081.5	78.7
0°-90°	7729.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7729.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2774	2774	2774	2774	2774	
5°	2790	2764	2785	2774	2767	266
15°	2726	2687	2664	2598	2567	770
25°	2577	2519	2434	2370	2358	1188
35°	2337	2263	2156	2053	2023	1463
45°	2015	1948	1800	1662	1480	1554
55°	1619	1570	1401	1122	997	1447
65°	1171	1125	966	762	726	1160
75°	657	624	524	424	432	695
85°	182	161	118	95	95	199
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2774.3	2774.3	2774.3	2774.3	2774.3
2.5°	2792.2	2764.1	2784.6	2779.4	2766.7
5°	2789.7	2764.1	2784.6	2774.3	2766.7
7.5°	2782.0	2756.4	2769.2	2753.9	2743.6
10°	2769.2	2741.1	2743.6	2718.1	2700.2
12.5°	2751.3	2718.1	2710.4	2659.3	2633.7
15°	2725.7	2687.4	2664.4	2597.9	2567.2
17.5°	2697.6	2654.1	2613.2	2539.1	2516.1
20°	2664.4	2613.2	2557.0	2480.3	2462.4
22.5°	2623.5	2569.8	2495.6	2426.6	2416.3
25°	2577.4	2518.6	2434.2	2370.3	2357.5
27.5°	2526.3	2457.3	2370.3	2306.4	2291.1
30°	2467.5	2395.9	2306.4	2232.2	2196.4
32.5°	2406.1	2332.0	2234.8	2140.2	2107.0
35°	2337.1	2262.9	2155.5	2053.3	2022.6
37.5°	2265.5	2188.8	2073.7	1966.3	1940.7
40°	2186.2	2112.1	1984.2	1879.4	1853.8
42.5°	2104.4	2032.8	1894.7	1789.9	1749.0
45°	2014.9	1948.4	1800.1	1662.0	1480.5
47.5°	1920.3	1858.9	1705.5	1500.9	1291.3
50°	1823.1	1766.9	1608.3	1357.8	1166.0
52.5°	1723.4	1672.3	1508.6	1232.5	1079.0
55°	1618.6	1570.0	1401.2	1122.5	997.2
57.5°	1513.7	1465.1	1298.9	1022.8	928.2
60°	1403.8	1357.8	1186.4	930.7	859.1
62.5°	1296.4	1245.2	1076.5	846.4	795.2
65°	1171.1	1125.1	966.5	762.0	726.2
67.5°	1053.5	1004.9	859.1	680.2	659.7
70°	928.2	879.6	751.8	595.8	588.1
72.5°	795.2	756.9	639.2	514.0	508.8
75°	657.1	623.9	524.2	424.5	432.1
77.5°	521.6	501.2	414.2	340.1	345.2
80°	393.8	378.4	304.3	253.1	258.3
82.5°	281.3	268.5	207.1	168.8	168.8
85°	181.5	161.1	117.6	94.6	94.6
87.5°	71.6	58.8	35.8	10.2	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)