

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: P192428

Luminaire Tested: **4WSL-LD2-65-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

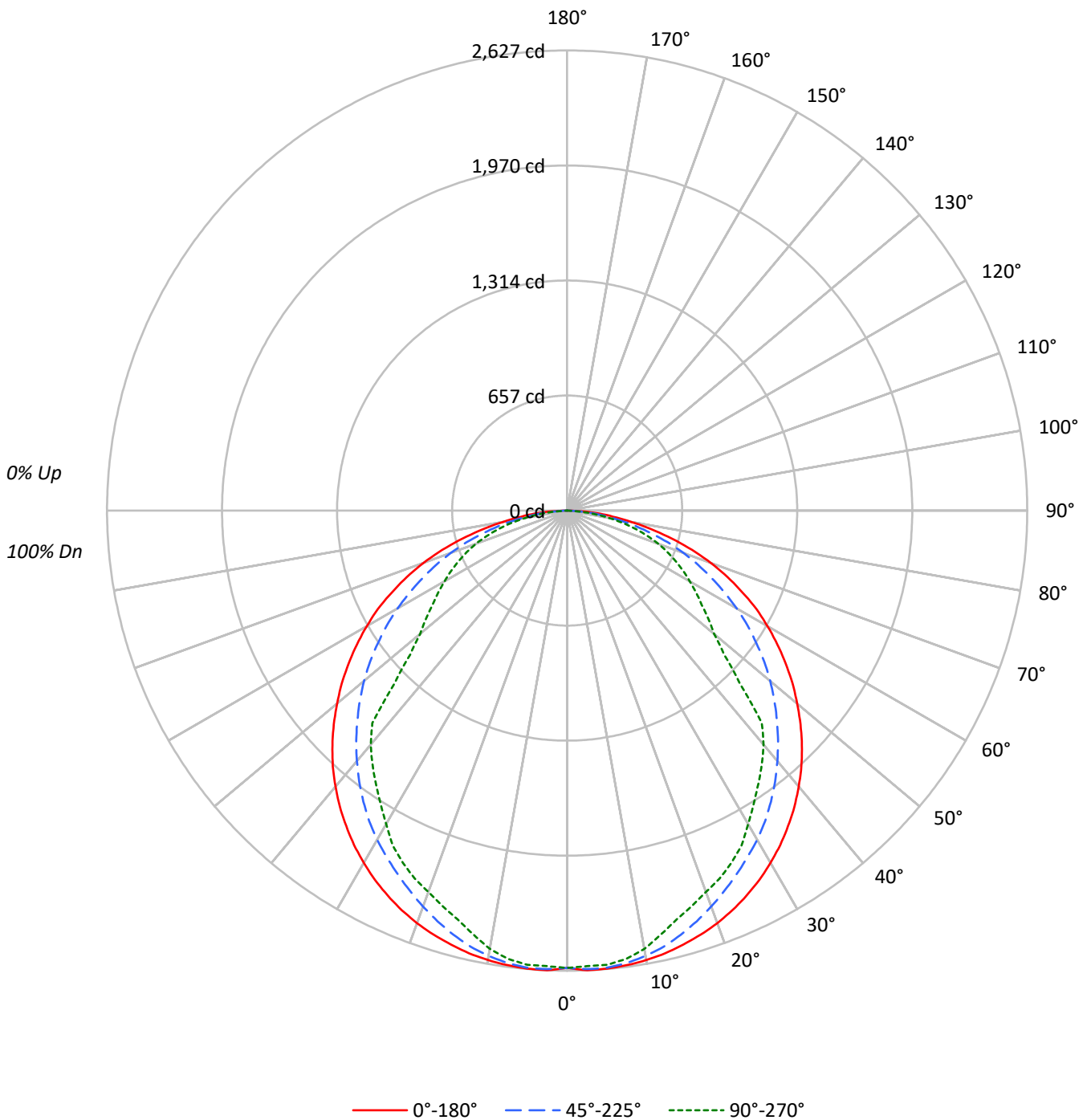
Test Method: LM-79-08  
Report Number: P192428  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 4WSL-LD2-65-UNV-L850-CD1-U  
Description: 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: 7272.0 lumens  
Efficiency: N/A  
Efficacy: 117.5 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): 61.9  
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°	14788	14788	14788
5°	14926	14899	14803
10°	14988	14850	14615
15°	15042	14703	14166
20°	15113	14504	13968
25°	15158	14316	13865
30°	15187	14195	13519
35°	15207	14026	13161
40°	15212	13807	12899
45°	15189	13570	11160
50°	15118	13337	9668
55°	15042	13022	9268
60°	14965	12648	9158
65°	14771	12191	9158
70°	14465	11716	9165
75°	13534	10796	8900
80°	12087	9340	7928
85°	11102	7196	5785



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	248.0	3.4
10°-20°	703.7	9.7
20°-30°	1060.8	14.6
30°-40°	1273.7	17.5
40°-50°	1297.2	17.8
50°-60°	1138.5	15.7
60°-70°	885.5	12.2
70°-80°	526.7	7.2
80°-90°	137.8	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°	2012.5	27.7
0°-40°	3286.2	45.2
0°-60°	5721.9	78.7
0°-90°	7272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7272.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2610	2610	2610	2610	2610	
5°	2625	2601	2620	2610	2603	250
15°	2565	2528	2507	2444	2415	725
25°	2425	2370	2290	2230	2218	1118
35°	2199	2129	2028	1932	1903	1376
45°	1896	1833	1694	1564	1393	1462
55°	1523	1477	1318	1056	938	1362
65°	1102	1058	909	717	683	1091
75°	618	587	493	399	407	654
85°	171	152	111	89	89	187
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2610.3	2610.3	2610.3	2610.3	2610.3
2.5°	2627.1	2600.7	2619.9	2615.1	2603.1
5°	2624.7	2600.7	2619.9	2610.3	2603.1
7.5°	2617.5	2593.4	2605.5	2591.0	2581.4
10°	2605.5	2579.0	2581.4	2557.4	2540.5
12.5°	2588.6	2557.4	2550.1	2502.0	2478.0
15°	2564.6	2528.5	2506.8	2444.3	2415.4
17.5°	2538.1	2497.2	2458.7	2388.9	2367.3
20°	2506.8	2458.7	2405.8	2333.6	2316.8
22.5°	2468.3	2417.8	2348.1	2283.1	2273.5
25°	2425.0	2369.7	2290.3	2230.2	2218.1
27.5°	2376.9	2312.0	2230.2	2170.0	2155.6
30°	2321.6	2254.2	2170.0	2100.3	2066.6
32.5°	2263.8	2194.1	2102.7	2013.6	1982.4
35°	2198.9	2129.1	2028.1	1931.8	1903.0
37.5°	2131.5	2059.4	1951.1	1850.1	1826.0
40°	2057.0	1987.2	1866.9	1768.3	1744.2
42.5°	1980.0	1912.6	1782.7	1684.1	1645.6
45°	1895.8	1833.2	1693.7	1563.8	1393.0
47.5°	1806.7	1749.0	1604.7	1412.2	1214.9
50°	1715.3	1662.4	1513.2	1277.5	1097.0
52.5°	1621.5	1573.4	1419.4	1159.6	1015.2
55°	1522.9	1477.2	1318.4	1056.1	938.3
57.5°	1424.2	1378.5	1222.1	962.3	873.3
60°	1320.8	1277.5	1116.3	875.7	808.3
62.5°	1219.7	1171.6	1012.8	796.3	748.2
65°	1101.9	1058.5	909.4	716.9	683.2
67.5°	991.2	945.5	808.3	639.9	620.7
70°	873.3	827.6	707.3	560.5	553.3
72.5°	748.2	712.1	601.4	483.6	478.8
75°	618.3	587.0	493.2	399.4	406.6
77.5°	490.8	471.5	389.7	320.0	324.8
80°	370.5	356.1	286.3	238.2	243.0
82.5°	264.6	252.6	194.9	158.8	158.8
85°	170.8	151.6	110.7	89.0	89.0
87.5°	67.4	55.3	33.7	9.6	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)