

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: P197356

Luminaire Tested: **8WSL-LD2-60-UNV-L850-CD1-U**

Issue Date: 3/3/2020



**Test Information**

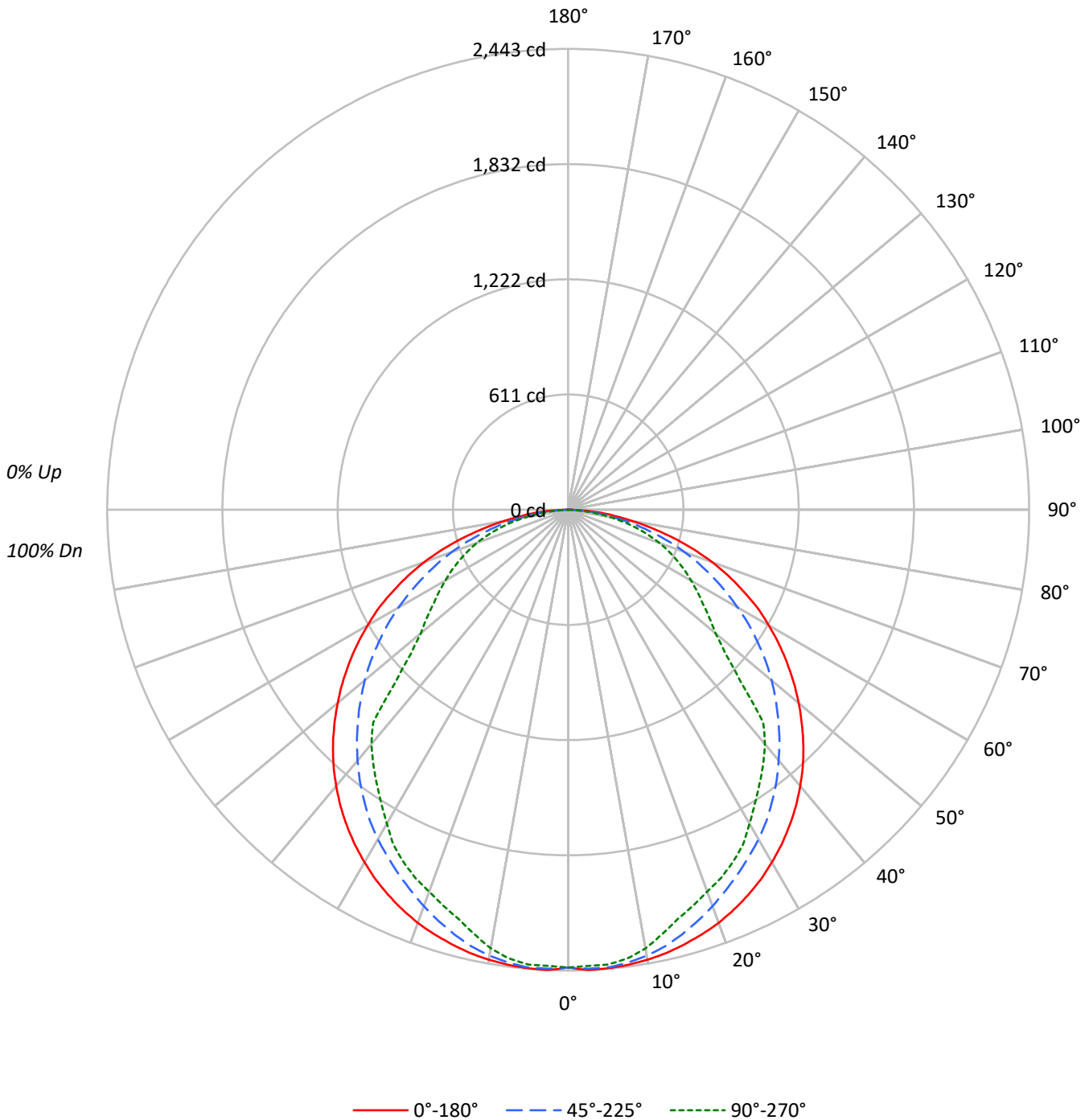
Test Method: LM-79-08  
Report Number: P197356  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P28104)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8WSL-LD2-60-UNV-L850-CD1-U  
Description: 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: 6761.3 lumens  
Efficiency: N/A  
Efficacy: 126.4 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): 53.5  
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°	6875	6875	6875
5°	6939	6926	6882
10°	6968	6903	6794
15°	6993	6835	6586
20°	7026	6743	6493
25°	7047	6656	6446
30°	7060	6599	6285
35°	7070	6520	6118
40°	7072	6418	5997
45°	7061	6308	5188
50°	7028	6200	4495
55°	6992	6054	4308
60°	6957	5880	4258
65°	6867	5667	4258
70°	6725	5446	4261
75°	6292	5019	4137
80°	5620	4342	3685
85°	5161	3344	2691



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	230.6	3.4
10°-20°	654.3	9.7
20°-30°	986.3	14.6
30°-40°	1184.2	17.5
40°-50°	1206.1	17.8
50°-60°	1058.5	15.7
60°-70°	823.4	12.2
70°-80°	489.7	7.2
80°-90°	128.2	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°	1871.2	27.7
0°-40°	3055.4	45.2
0°-60°	5320.1	78.7
0°-90°	6761.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6761.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2427	2427	2427	2427	2427	
5°	2440	2418	2436	2427	2420	232
15°	2384	2351	2331	2273	2246	674
25°	2255	2203	2130	2074	2062	1040
35°	2044	1980	1886	1796	1769	1280
45°	1763	1704	1575	1454	1295	1359
55°	1416	1373	1226	982	872	1266
65°	1024	984	846	667	635	1015
75°	575	546	459	371	378	608
85°	159	141	103	83	83	174
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2427.0	2427.0	2427.0	2427.0	2427.0
2.5°	2442.6	2418.0	2435.9	2431.4	2420.3
5°	2440.4	2418.0	2435.9	2427.0	2420.3
7.5°	2433.7	2411.3	2422.5	2409.1	2400.1
10°	2422.5	2397.9	2400.1	2377.8	2362.1
12.5°	2406.8	2377.8	2371.0	2326.3	2303.9
15°	2384.5	2350.9	2330.8	2272.6	2245.8
17.5°	2359.9	2321.8	2286.0	2221.2	2201.0
20°	2330.8	2286.0	2236.8	2169.7	2154.1
22.5°	2295.0	2248.0	2183.1	2122.8	2113.8
25°	2254.7	2203.3	2129.5	2073.5	2062.4
27.5°	2210.0	2149.6	2073.5	2017.6	2004.2
30°	2158.5	2095.9	2017.6	1952.8	1921.4
32.5°	2104.9	2040.0	1955.0	1872.2	1843.1
35°	2044.5	1979.6	1885.6	1796.2	1769.3
37.5°	1981.8	1914.7	1814.1	1720.1	1697.8
40°	1912.5	1847.6	1735.8	1644.1	1621.7
42.5°	1840.9	1778.3	1657.5	1565.8	1530.0
45°	1762.6	1704.5	1574.7	1453.9	1295.1
47.5°	1679.9	1626.2	1492.0	1313.0	1129.6
50°	1594.9	1545.7	1407.0	1187.8	1020.0
52.5°	1507.6	1462.9	1319.7	1078.2	943.9
55°	1415.9	1373.4	1225.8	982.0	872.4
57.5°	1324.2	1281.7	1136.3	894.7	812.0
60°	1228.0	1187.8	1037.9	814.2	751.6
62.5°	1134.1	1089.3	941.7	740.4	695.7
65°	1024.5	984.2	845.5	666.6	635.3
67.5°	921.6	879.1	751.6	595.0	577.1
70°	812.0	769.5	657.6	521.2	514.5
72.5°	695.7	662.1	559.2	449.6	445.1
75°	574.9	545.8	458.6	371.3	378.0
77.5°	456.3	438.4	362.4	297.5	302.0
80°	344.5	331.1	266.2	221.4	225.9
82.5°	246.1	234.9	181.2	147.6	147.6
85°	158.8	140.9	102.9	82.8	82.8
87.5°	62.6	51.4	31.3	8.9	4.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)