

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: P197404

Luminaire Tested: **8WSL-LD2-160-UNV-L850-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197404  
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-LD2-160-UNV-L850-CD2-U  
Description: 8FT. Linear Wavestream System, L850  
Light Source: (476) 5000K CCT, 80 CRI LEDS  
EL236N0119D850  
Ballast/Driver: OSRAM  
OT85W1202772A0DIML

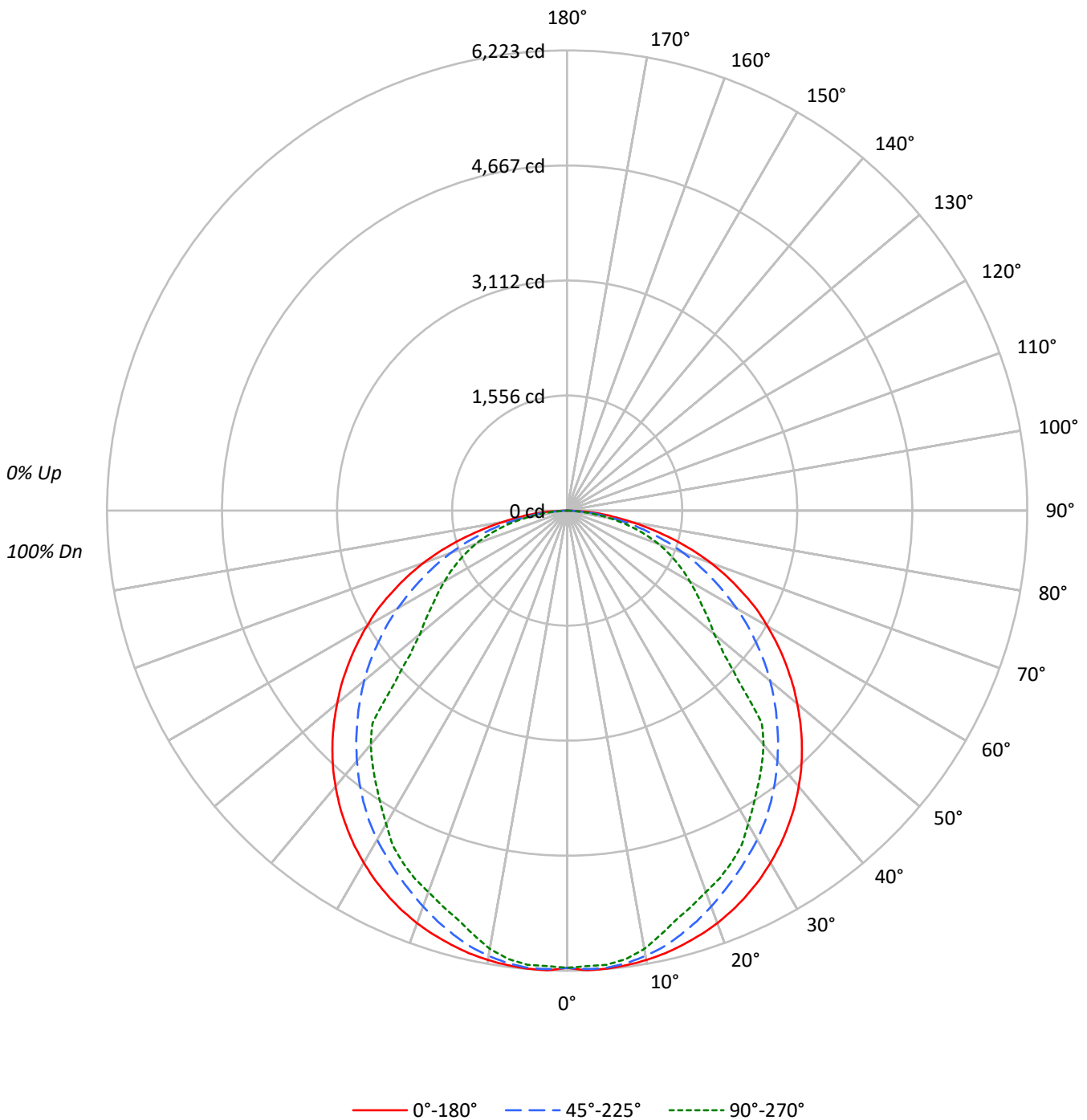
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17225.4 lumens  
Efficiency: N/A  
Efficacy: 112.7 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): 152.9  
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°	17514	17514	17514
5°	17678	17646	17533
10°	17752	17588	17309
15°	17815	17413	16778
20°	17900	17178	16542
25°	17953	16956	16422
30°	17987	16813	16011
35°	18011	16612	15587
40°	18017	16352	15277
45°	17989	16071	13218
50°	17905	15796	11451
55°	17815	15422	10976
60°	17724	14980	10848
65°	17494	14438	10847
70°	17132	13876	10855
75°	16029	12785	10541
80°	14316	11061	9389
85°	13150	8518	6854



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	587.4	3.4
10°-20°	1666.9	9.7
20°-30°	2512.8	14.6
30°-40°	3017.0	17.5
40°-50°	3072.8	17.8
50°-60°	2696.7	15.7
60°-70°	2097.7	12.2
70°-80°	1247.6	7.2
80°-90°	326.5	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°	4767.1	27.7
0°-40°	7784.2	45.2
0°-60°	13553.6	78.7
0°-90°	17225.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	17225.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	6183	6183	6183	6183	6183	
5°	6217	6160	6206	6183	6166	592
15°	6075	5989	5938	5790	5722	1717
25°	5744	5613	5425	5283	5254	2649
35°	5209	5043	4804	4576	4508	3260
45°	4490	4342	4012	3704	3300	3462
55°	3607	3499	3123	2502	2222	3226
65°	2610	2507	2154	1698	1618	2585
75°	1465	1390	1168	946	963	1548
85°	405	359	262	211	211	443
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	6183.1	6183.1	6183.1	6183.1	6183.1
2.5°	6222.9	6160.3	6205.8	6194.4	6166.0
5°	6217.2	6160.3	6205.8	6183.1	6166.0
7.5°	6200.1	6143.2	6171.7	6137.5	6114.7
10°	6171.7	6109.0	6114.7	6057.7	6017.8
12.5°	6131.8	6057.7	6040.6	5926.6	5869.6
15°	6074.8	5989.3	5938.0	5789.8	5721.5
17.5°	6012.1	5915.2	5824.0	5658.8	5607.5
20°	5938.0	5824.0	5698.7	5527.7	5487.8
22.5°	5846.8	5727.2	5561.9	5408.0	5385.2
25°	5744.3	5613.2	5425.1	5282.7	5254.2
27.5°	5630.3	5476.4	5282.7	5140.2	5106.0
30°	5499.2	5339.6	5140.2	4974.9	4895.2
32.5°	5362.4	5197.2	4980.6	4769.8	4695.7
35°	5208.6	5043.3	4804.0	4576.0	4507.6
37.5°	5049.0	4878.1	4621.6	4382.3	4325.3
40°	4872.4	4707.1	4422.2	4188.5	4131.5
42.5°	4690.0	4530.4	4222.7	3989.1	3897.9
45°	4490.5	4342.4	4011.9	3704.1	3299.5
47.5°	4279.7	4142.9	3801.0	3345.1	2877.8
50°	4063.1	3937.8	3584.5	3026.0	2598.6
52.5°	3840.9	3726.9	3362.2	2746.8	2404.8
55°	3607.3	3499.0	3122.9	2501.7	2222.5
57.5°	3373.6	3265.3	2894.9	2279.5	2068.6
60°	3128.6	3026.0	2644.2	2074.3	1914.8
62.5°	2889.2	2775.2	2399.1	1886.3	1772.3
65°	2610.0	2507.4	2154.1	1698.2	1618.4
67.5°	2347.8	2239.6	1914.8	1515.8	1470.3
70°	2068.6	1960.3	1675.4	1327.8	1310.7
72.5°	1772.3	1686.8	1424.7	1145.4	1134.0
75°	1464.6	1390.5	1168.2	946.0	963.1
77.5°	1162.5	1116.9	923.2	757.9	769.3
80°	877.6	843.4	678.1	564.2	575.6
82.5°	626.9	598.4	461.6	376.1	376.1
85°	404.6	359.0	262.1	210.9	210.9
87.5°	159.6	131.1	79.8	22.8	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)