

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: P197385

Luminaire Tested: **8WSL-LD2-120-UNV-L830-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197385  
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-L830-CD2-U  
Description: 8FT. Linear Wavestream System, L830  
Light Source: (476) 3000K CCT, 80 CRI LEDS  
EL236N0119D830  
Ballast/Driver: OSRAM  
OT50W

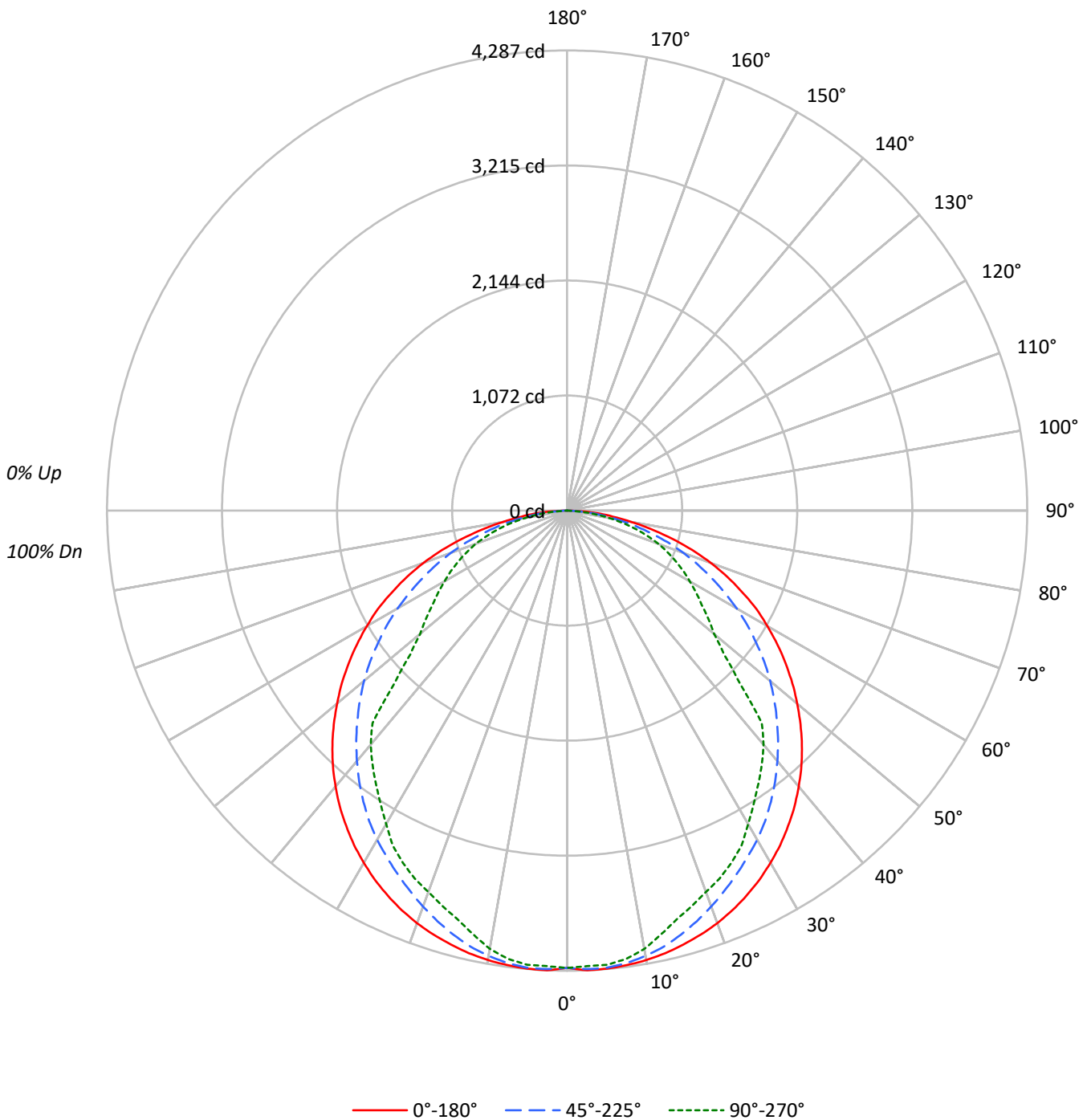
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11866.8 lumens  
Efficiency: N/A  
Efficacy: 104.6 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°	12066	12066	12066
5°	12179	12157	12078
10°	12229	12116	11924
15°	12273	11996	11559
20°	12331	11834	11396
25°	12368	11681	11313
30°	12391	11582	11030
35°	12408	11444	10738
40°	12412	11265	10525
45°	12393	11072	9106
50°	12335	10882	7889
55°	12273	10625	7561
60°	12210	10320	7473
65°	12052	9947	7473
70°	11803	9559	7479
75°	11043	8808	7262
80°	9862	7621	6468
85°	9058	5870	4722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	404.6	3.4
10°-20°	1148.4	9.7
20°-30°	1731.1	14.6
30°-40°	2078.5	17.5
40°-50°	2116.9	17.8
50°-60°	1857.8	15.7
60°-70°	1445.1	12.2
70°-80°	859.5	7.2
80°-90°	224.9	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°	3284.2	27.7
0°-40°	5362.6	45.2
0°-60°	9337.3	78.7
0°-90°	11866.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11866.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4260	4260	4260	4260	4260	
5°	4283	4244	4275	4260	4248	408
15°	4185	4126	4091	3989	3942	1183
25°	3957	3867	3737	3639	3620	1825
35°	3588	3474	3310	3152	3105	2246
45°	3094	2992	2764	2552	2273	2385
55°	2485	2410	2151	1724	1531	2222
65°	1798	1727	1484	1170	1115	1781
75°	1009	958	805	652	664	1067
85°	279	247	181	145	145	305
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4259.6	4259.6	4259.6	4259.6	4259.6
2.5°	4287.1	4243.9	4275.3	4267.4	4247.8
5°	4283.1	4243.9	4275.3	4259.6	4247.8
7.5°	4271.4	4232.1	4251.7	4228.2	4212.5
10°	4251.7	4208.5	4212.5	4173.2	4145.7
12.5°	4224.2	4173.2	4161.4	4082.9	4043.7
15°	4185.0	4126.1	4090.8	3988.7	3941.6
17.5°	4141.8	4075.1	4012.3	3898.4	3863.1
20°	4090.8	4012.3	3925.9	3808.1	3780.6
22.5°	4028.0	3945.5	3831.7	3725.7	3710.0
25°	3957.3	3867.0	3737.4	3639.3	3619.7
27.5°	3878.8	3772.8	3639.3	3541.1	3517.6
30°	3788.5	3678.6	3541.1	3427.3	3372.3
32.5°	3694.3	3580.4	3431.2	3286.0	3234.9
35°	3588.3	3474.4	3309.5	3152.5	3105.4
37.5°	3478.3	3360.6	3183.9	3019.0	2979.7
40°	3356.6	3242.8	3046.5	2885.5	2846.3
42.5°	3231.0	3121.1	2909.1	2748.1	2685.3
45°	3093.6	2991.5	2763.8	2551.8	2273.1
47.5°	2948.3	2854.1	2618.6	2304.5	1982.6
50°	2799.2	2712.8	2469.4	2084.6	1790.2
52.5°	2646.0	2567.5	2316.3	1892.3	1656.7
55°	2485.1	2410.5	2151.4	1723.5	1531.1
57.5°	2324.1	2249.5	1994.3	1570.4	1425.1
60°	2155.3	2084.6	1821.6	1429.0	1319.1
62.5°	1990.4	1911.9	1652.8	1299.5	1220.9
65°	1798.1	1727.4	1484.0	1169.9	1115.0
67.5°	1617.5	1542.9	1319.1	1044.3	1012.9
70°	1425.1	1350.5	1154.2	914.7	903.0
72.5°	1220.9	1162.1	981.5	789.1	781.3
75°	1009.0	957.9	804.8	651.7	663.5
77.5°	800.9	769.5	636.0	522.1	530.0
80°	604.6	581.0	467.2	388.7	396.5
82.5°	431.8	412.2	318.0	259.1	259.1
85°	278.7	247.3	180.6	145.3	145.3
87.5°	109.9	90.3	55.0	15.7	7.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)