

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: P197381

Luminaire Tested: **8WSL-LD2-110-UNV-L830-CD2-U**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P197381  
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-LD2-110-UNV-L830-CD2-U  
Description: 8FT. Linear Wavestream System, L830  
Light Source: (476) 3000K CCT, 80 CRI LEDS  
EL236N0119D830  
Ballast/Driver: OSRAM  
OT50W

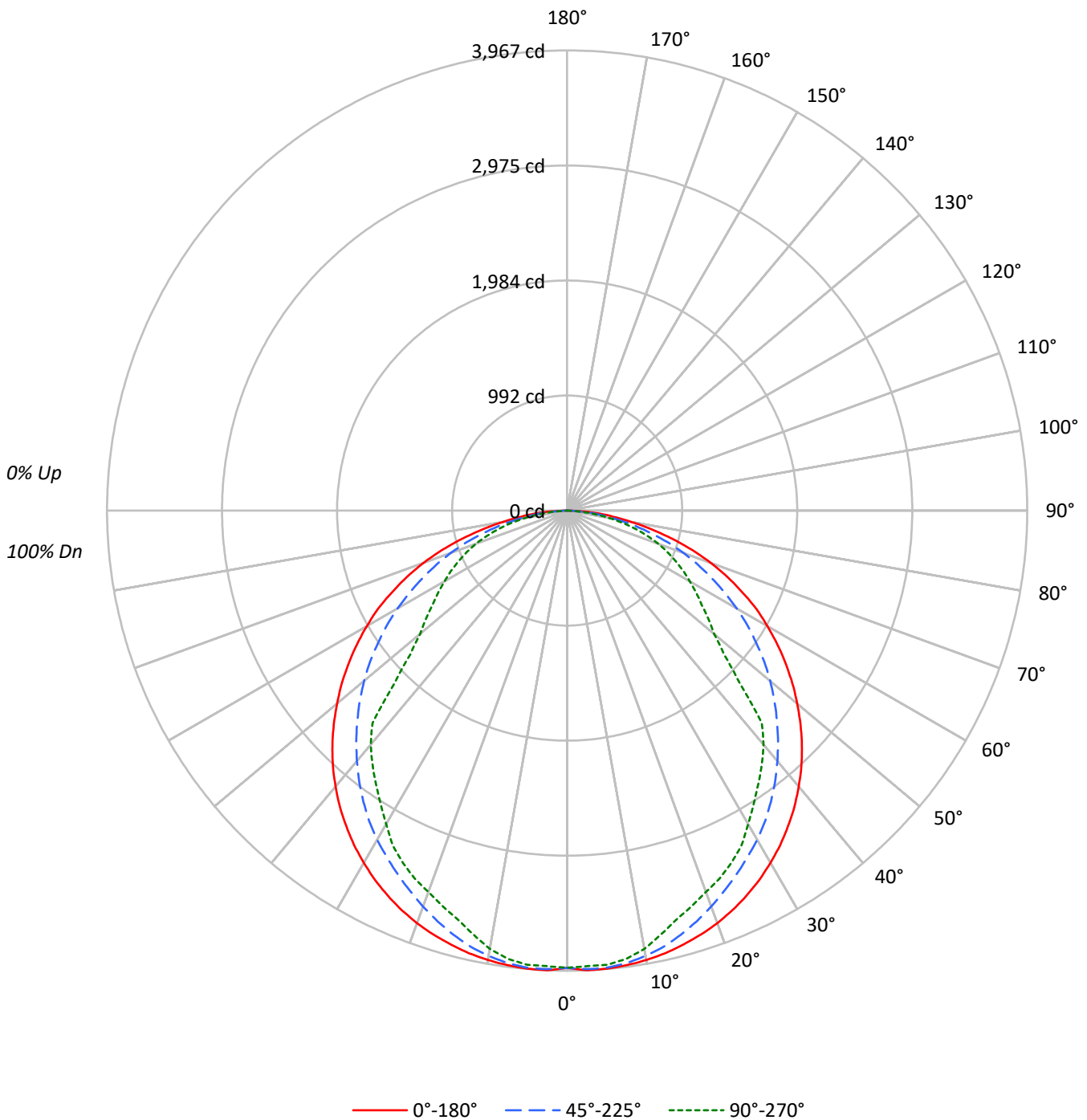
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10980.9 lumens  
Efficiency: N/A  
Efficacy: 111.0 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): 98.9  
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°	11165	11165	11165
5°	11270	11249	11177
10°	11316	11212	11034
15°	11357	11101	10696
20°	11411	10951	10546
25°	11445	10809	10469
30°	11466	10718	10207
35°	11482	10590	9937
40°	11485	10424	9739
45°	11468	10245	8426
50°	11414	10069	7300
55°	11357	9832	6997
60°	11299	9549	6915
65°	11152	9204	6915
70°	10921	8845	6920
75°	10218	8150	6719
80°	9127	7052	5985
85°	8382	5431	4368



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	374.4	3.4
10°-20°	1062.6	9.7
20°-30°	1601.9	14.6
30°-40°	1923.3	17.5
40°-50°	1958.8	17.8
50°-60°	1719.1	15.7
60°-70°	1337.2	12.2
70°-80°	795.3	7.2
80°-90°	208.1	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°	3039.0	27.7
0°-40°	4962.3	45.2
0°-60°	8640.3	78.7
0°-90°	10980.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10980.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3942	3942	3942	3942	3942	
5°	3963	3927	3956	3942	3931	377
15°	3873	3818	3785	3691	3647	1094
25°	3662	3578	3458	3368	3350	1688
35°	3320	3215	3062	2917	2874	2078
45°	2863	2768	2558	2361	2103	2207
55°	2300	2231	1991	1595	1417	2056
65°	1664	1598	1373	1083	1032	1648
75°	934	886	745	603	614	987
85°	258	229	167	134	134	283
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3941.6	3941.6	3941.6	3941.6	3941.6
2.5°	3967.0	3927.1	3956.1	3948.9	3930.7
5°	3963.4	3927.1	3956.1	3941.6	3930.7
7.5°	3952.5	3916.2	3934.3	3912.5	3898.0
10°	3934.3	3894.4	3898.0	3861.7	3836.3
12.5°	3908.9	3861.7	3850.8	3778.1	3741.8
15°	3872.6	3818.1	3785.4	3690.9	3647.3
17.5°	3832.6	3770.9	3712.7	3607.4	3574.7
20°	3785.4	3712.7	3632.8	3523.8	3498.4
22.5°	3727.3	3651.0	3545.6	3447.5	3433.0
25°	3661.9	3578.3	3458.4	3367.6	3349.5
27.5°	3589.2	3491.1	3367.6	3276.8	3255.0
30°	3505.7	3404.0	3276.8	3171.5	3120.6
32.5°	3418.5	3313.1	3175.1	3040.7	2993.4
35°	3320.4	3215.0	3062.5	2917.2	2873.6
37.5°	3218.7	3109.7	2946.2	2793.6	2757.3
40°	3106.1	3000.7	2819.1	2670.1	2633.8
42.5°	2989.8	2888.1	2691.9	2543.0	2484.8
45°	2862.7	2768.2	2557.5	2361.3	2103.4
47.5°	2728.2	2641.1	2423.1	2132.5	1834.6
50°	2590.2	2510.3	2285.0	1929.0	1656.6
52.5°	2448.5	2375.9	2143.4	1751.0	1533.0
55°	2299.6	2230.6	1990.8	1594.8	1416.8
57.5°	2150.6	2081.6	1845.5	1453.1	1318.7
60°	1994.4	1929.0	1685.6	1322.3	1220.6
62.5°	1841.8	1769.2	1529.4	1202.5	1129.8
65°	1663.8	1598.4	1373.2	1082.6	1031.7
67.5°	1496.7	1427.7	1220.6	966.3	937.3
70°	1318.7	1249.7	1068.0	846.4	835.5
72.5°	1129.8	1075.3	908.2	730.2	722.9
75°	933.6	886.4	744.7	603.0	613.9
77.5°	741.1	712.0	588.5	483.2	490.4
80°	559.5	537.7	432.3	359.6	366.9
82.5°	399.6	381.4	294.3	239.8	239.8
85°	257.9	228.9	167.1	134.4	134.4
87.5°	101.7	83.6	50.9	14.5	7.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)