

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: P192437

Luminaire Tested: **4WSL-LD2-80-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192437
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-LD2-80-UNV-L830-CD1-U
Description: 4FT Linear Wavestream System, L830
Light Source: (238) 3000K CCT, 80 CRI LEDS
EL236N0119D830
Ballast/Driver: OSRAM
OT85W1202772A0DIML

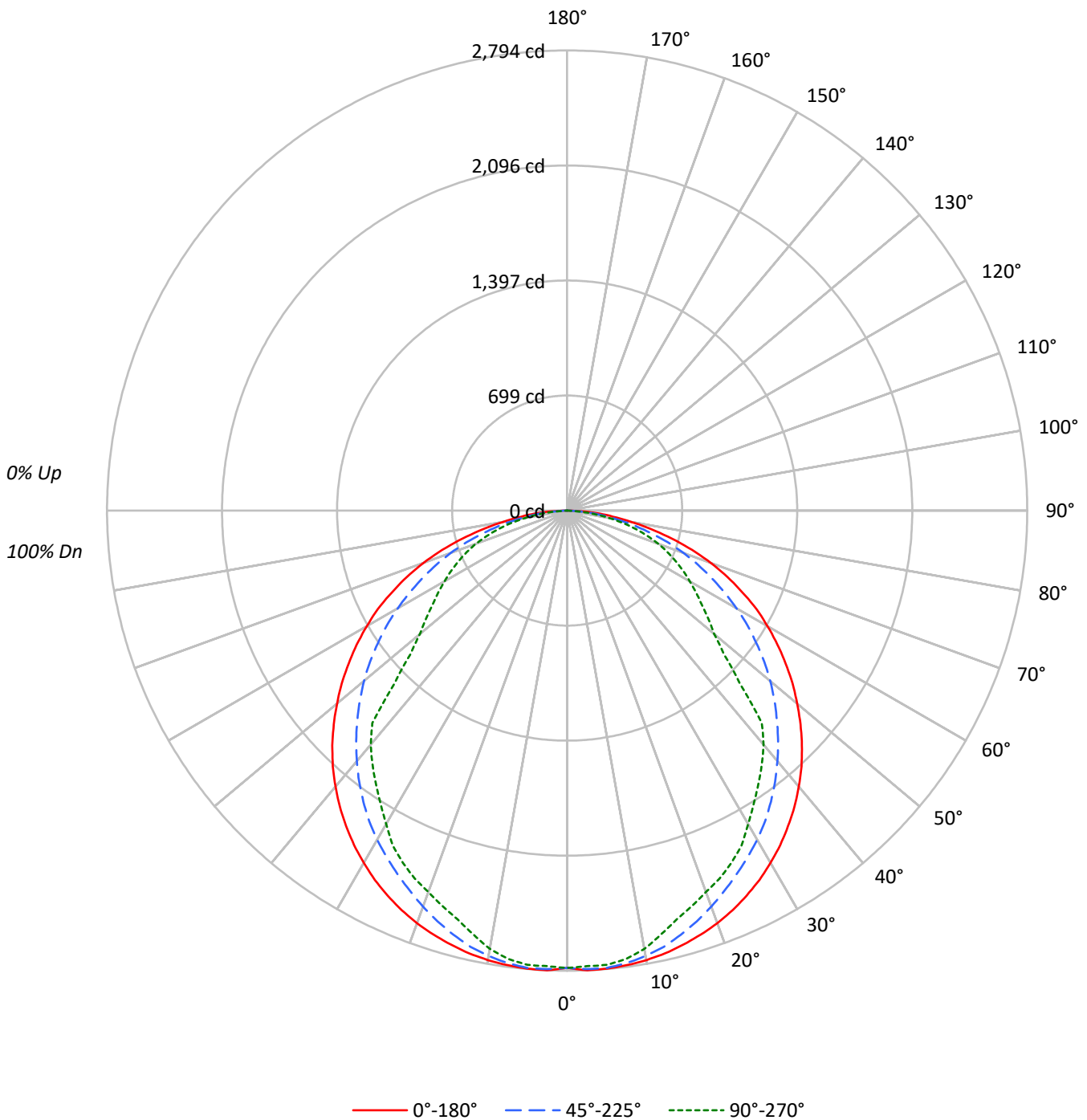
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7735.0 lumens
Efficiency: N/A
Efficacy: 101.8 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): 76
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°	15729	15729	15729
5°	15877	15848	15746
10°	15943	15796	15545
15°	15999	15639	15069
20°	16075	15428	14857
25°	16124	15228	14748
30°	16154	15099	14380
35°	16176	14919	13999
40°	16180	14686	13720
45°	16156	14433	11870
50°	16080	14186	10284
55°	15999	13851	9857
60°	15918	13454	9742
65°	15711	12967	9741
70°	15386	12461	9750
75°	14396	11483	9467
80°	12857	9934	8433
85°	11811	7651	6156



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.8	3.4
10°-20°	748.5	9.7
20°-30°	1128.4	14.6
30°-40°	1354.8	17.5
40°-50°	1379.8	17.8
50°-60°	1210.9	15.7
60°-70°	941.9	12.2
70°-80°	560.2	7.2
80°-90°	146.6	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°	2140.7	27.7
0°-40°	3495.5	45.2
0°-60°	6086.2	78.7
0°-90°	7735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7735.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2776	2776	2776	2776	2776	
5°	2792	2766	2787	2776	2769	266
15°	2728	2690	2666	2600	2569	771
25°	2579	2521	2436	2372	2359	1189
35°	2339	2265	2157	2055	2024	1464
45°	2016	1950	1802	1663	1482	1555
55°	1620	1571	1402	1123	998	1448
65°	1172	1126	967	763	727	1161
75°	658	624	525	425	432	695
85°	182	161	118	95	95	199
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2776.5	2776.5	2776.5	2776.5	2776.5
2.5°	2794.4	2766.2	2786.7	2781.6	2768.8
5°	2791.8	2766.2	2786.7	2776.5	2768.8
7.5°	2784.2	2758.6	2771.4	2756.0	2745.8
10°	2771.4	2743.2	2745.8	2720.2	2702.3
12.5°	2753.4	2720.2	2712.5	2661.3	2635.7
15°	2727.9	2689.5	2666.4	2599.9	2569.2
17.5°	2699.7	2656.2	2615.3	2541.1	2518.0
20°	2666.4	2615.3	2559.0	2482.2	2464.3
22.5°	2625.5	2571.8	2497.5	2428.5	2418.2
25°	2579.4	2520.6	2436.1	2372.2	2359.4
27.5°	2528.3	2459.2	2372.2	2308.2	2292.8
30°	2469.4	2397.7	2308.2	2234.0	2198.2
32.5°	2408.0	2333.8	2236.5	2141.9	2108.6
35°	2338.9	2264.7	2157.2	2054.8	2024.1
37.5°	2267.2	2190.5	2075.3	1967.8	1942.3
40°	2187.9	2113.7	1985.8	1880.8	1855.2
42.5°	2106.0	2034.4	1896.2	1791.3	1750.3
45°	2016.5	1949.9	1801.5	1663.3	1481.6
47.5°	1921.8	1860.4	1706.8	1502.1	1292.3
50°	1824.5	1768.2	1609.6	1358.8	1166.9
52.5°	1724.7	1673.6	1509.8	1233.4	1079.9
55°	1619.8	1571.2	1402.3	1123.4	998.0
57.5°	1514.9	1466.3	1300.0	1023.6	928.9
60°	1404.9	1358.8	1187.4	931.5	859.8
62.5°	1297.4	1246.2	1077.3	847.0	795.8
65°	1172.0	1125.9	967.3	762.6	726.7
67.5°	1054.3	1005.7	859.8	680.7	660.2
70°	928.9	880.3	752.3	596.2	588.6
72.5°	795.8	757.5	639.7	514.4	509.2
75°	657.7	624.4	524.6	424.8	432.5
77.5°	522.0	501.6	414.6	340.3	345.5
80°	394.1	378.7	304.5	253.3	258.5
82.5°	281.5	268.7	207.3	168.9	168.9
85°	181.7	161.2	117.7	94.7	94.7
87.5°	71.7	58.9	35.8	10.2	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)