

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: P192440

Luminaire Tested: **4WSL-LD2-80-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192440
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-L850-CD1-U
Description: 4FT Linear Wavestream System, L850
Light Source: (238) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

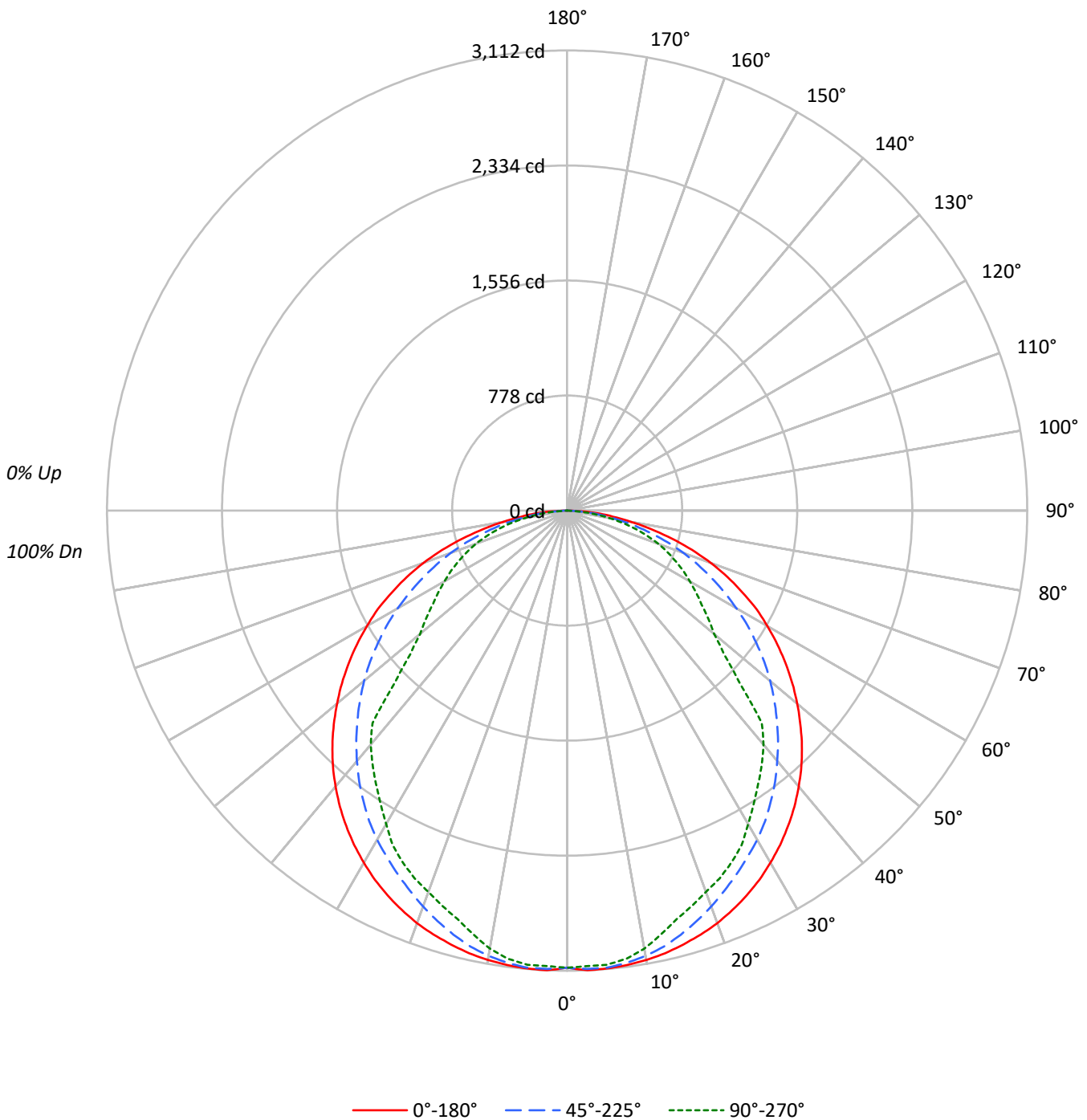
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8613.0 lumens
Efficiency: N/A
Efficacy: 113.3 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°	17515	17515	17515
5°	17679	17646	17533
10°	17752	17588	17310
15°	17815	17414	16779
20°	17900	17178	16543
25°	17954	16957	16422
30°	17988	16813	16012
35°	18012	16613	15588
40°	18017	16353	15277
45°	17990	16072	13218
50°	17906	15796	11451
55°	17815	15423	10976
60°	17724	14980	10848
65°	17494	14439	10847
70°	17132	13876	10856
75°	16029	12785	10542
80°	14316	11063	9389
85°	13150	8522	6851



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	293.7	3.4
10°-20°	833.5	9.7
20°-30°	1256.5	14.6
30°-40°	1508.6	17.5
40°-50°	1536.4	17.8
50°-60°	1348.4	15.7
60°-70°	1048.9	12.2
70°-80°	623.8	7.2
80°-90°	163.3	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°	2383.6	27.7
0°-40°	3892.2	45.2
0°-60°	6777.0	78.7
0°-90°	8613.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8613.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3092	3092	3092	3092	3092	
5°	3109	3080	3103	3092	3083	296
15°	3038	2995	2969	2895	2861	858
25°	2872	2807	2713	2641	2627	1324
35°	2604	2522	2402	2288	2254	1630
45°	2245	2171	2006	1852	1650	1731
55°	1804	1750	1562	1251	1111	1613
65°	1305	1254	1077	849	809	1293
75°	732	695	584	473	482	774
85°	202	180	131	105	105	222
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3091.6	3091.6	3091.6	3091.6	3091.6
2.5°	3111.6	3080.2	3103.0	3097.3	3083.1
5°	3108.7	3080.2	3103.0	3091.6	3083.1
7.5°	3100.2	3071.7	3085.9	3068.8	3057.4
10°	3085.9	3054.6	3057.4	3028.9	3009.0
12.5°	3066.0	3028.9	3020.4	2963.4	2934.9
15°	3037.5	2994.8	2969.1	2895.0	2860.8
17.5°	3006.2	2957.7	2912.1	2829.5	2803.8
20°	2969.1	2912.1	2849.4	2763.9	2744.0
22.5°	2923.5	2863.7	2781.0	2704.1	2692.7
25°	2872.2	2806.7	2712.7	2641.4	2627.2
27.5°	2815.2	2738.3	2641.4	2570.2	2553.1
30°	2749.7	2669.9	2570.2	2487.6	2447.7
32.5°	2681.3	2598.7	2490.4	2385.0	2347.9
35°	2604.4	2521.7	2402.1	2288.1	2253.9
37.5°	2524.6	2439.1	2310.9	2191.2	2162.7
40°	2436.3	2353.6	2211.2	2094.3	2065.8
42.5°	2345.1	2265.3	2111.4	1994.6	1949.0
45°	2245.4	2171.3	2006.0	1852.1	1649.8
47.5°	2139.9	2071.5	1900.6	1672.6	1439.0
50°	2031.6	1969.0	1792.3	1513.0	1299.3
52.5°	1920.5	1863.5	1681.2	1373.4	1202.5
55°	1803.7	1749.6	1561.5	1250.9	1111.3
57.5°	1686.9	1632.7	1447.5	1139.8	1034.3
60°	1564.3	1513.0	1322.1	1037.2	957.4
62.5°	1444.7	1387.7	1199.6	943.2	886.2
65°	1305.0	1253.8	1077.1	849.1	809.2
67.5°	1174.0	1119.8	957.4	757.9	735.2
70°	1034.3	980.2	837.7	663.9	655.4
72.5°	886.2	843.4	712.4	572.7	567.0
75°	732.3	695.3	584.1	473.0	481.6
77.5°	581.3	558.5	461.6	379.0	384.7
80°	438.8	421.7	339.1	282.1	287.8
82.5°	313.4	299.2	230.8	188.1	188.1
85°	202.3	179.5	131.1	105.4	105.4
87.5°	79.8	65.5	39.9	11.4	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)