

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: P192436

Luminaire Tested: **4WSL-LD2-75-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192436
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-LD2-75-UNV-L850-CD1-U
Description: 4FT Linear Wavestream System, L850
Light Source: (238) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

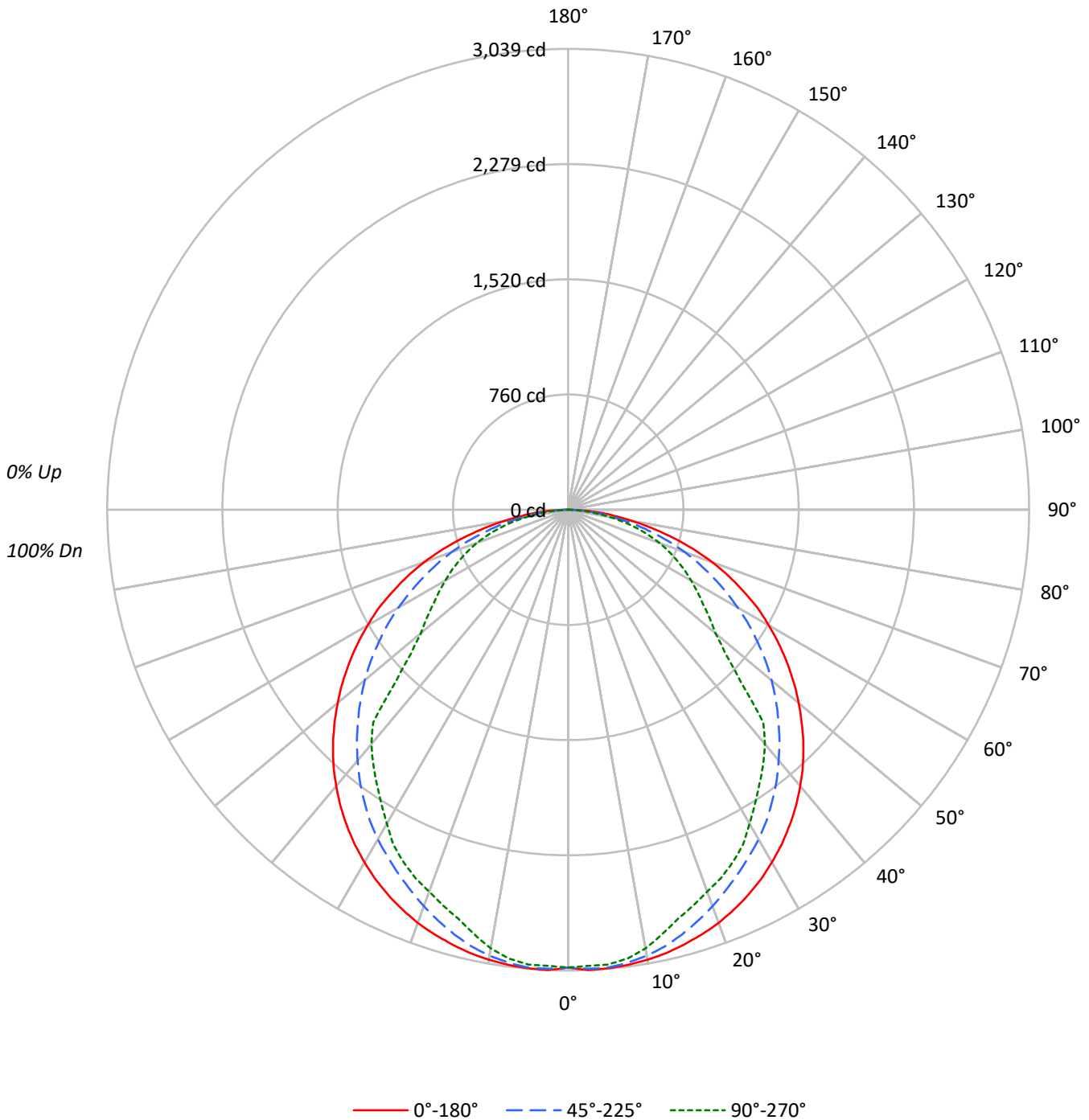
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8411.0 lumens
Efficiency: N/A
Efficacy: 113.8 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): 73.9
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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33					33			
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17104	17104	17104
5°	17264	17233	17122
10°	17336	17176	16903
15°	17398	17006	16385
20°	17481	16776	16155
25°	17533	16559	16037
30°	17566	16419	15636
35°	17589	16223	15222
40°	17594	15969	14920
45°	17568	15695	12908
50°	17486	15426	11183
55°	17397	15061	10719
60°	17308	14629	10594
65°	17083	14099	10594
70°	16731	13551	10601
75°	15653	12485	10294
80°	13980	10802	9168
85°	12844	8320	6695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.8	3.4
10°-20°	813.9	9.7
20°-30°	1227.0	14.6
30°-40°	1473.2	17.5
40°-50°	1500.4	17.8
50°-60°	1316.8	15.7
60°-70°	1024.3	12.2
70°-80°	609.2	7.2
80°-90°	159.4	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°	2327.8	27.7
0°-40°	3800.9	45.2
0°-60°	6618.1	78.7
0°-90°	8411.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8411.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3019	3019	3019	3019	3019	
5°	3036	3008	3030	3019	3011	289
15°	2966	2924	2900	2827	2794	838
25°	2805	2741	2649	2580	2566	1293
35°	2543	2463	2346	2234	2201	1592
45°	2193	2120	1959	1809	1611	1691
55°	1761	1708	1525	1222	1085	1575
65°	1274	1224	1052	829	790	1262
75°	715	679	570	462	470	756
85°	198	175	128	103	103	217
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3019.1	3019.1	3019.1	3019.1	3019.1
2.5°	3038.6	3008.0	3030.3	3024.7	3010.8
5°	3035.8	3008.0	3030.3	3019.1	3010.8
7.5°	3027.5	2999.6	3013.6	2996.9	2985.7
10°	3013.6	2983.0	2985.7	2957.9	2938.4
12.5°	2994.1	2957.9	2949.6	2893.9	2866.1
15°	2966.3	2924.5	2899.5	2827.1	2793.7
17.5°	2935.6	2888.3	2843.8	2763.1	2738.1
20°	2899.5	2843.8	2782.6	2699.1	2679.6
22.5°	2855.0	2796.5	2715.8	2640.7	2629.6
25°	2804.9	2740.9	2649.0	2579.5	2565.6
27.5°	2749.2	2674.1	2579.5	2509.9	2493.2
30°	2685.2	2607.3	2509.9	2429.2	2390.3
32.5°	2618.4	2537.7	2432.0	2329.0	2292.9
35°	2543.3	2462.6	2345.7	2234.4	2201.0
37.5°	2465.4	2381.9	2256.7	2139.8	2112.0
40°	2379.1	2298.4	2159.3	2045.2	2017.4
42.5°	2290.1	2212.2	2061.9	1947.8	1903.3
45°	2192.7	2120.3	1959.0	1808.7	1611.1
47.5°	2089.7	2023.0	1856.0	1633.4	1405.2
50°	1984.0	1922.8	1750.3	1477.6	1268.9
52.5°	1875.5	1819.8	1641.7	1341.2	1174.3
55°	1761.4	1708.5	1524.9	1221.6	1085.2
57.5°	1647.3	1594.4	1413.6	1113.0	1010.1
60°	1527.6	1477.6	1291.1	1012.9	935.0
62.5°	1410.8	1355.1	1171.5	921.0	865.4
65°	1274.4	1224.3	1051.8	829.2	790.3
67.5°	1146.4	1093.6	935.0	740.2	717.9
70°	1010.1	957.2	818.1	648.3	640.0
72.5°	865.4	823.7	695.7	559.3	553.7
75°	715.1	679.0	570.4	461.9	470.3
77.5°	567.7	545.4	450.8	370.1	375.7
80°	428.5	411.8	331.1	275.5	281.0
82.5°	306.1	292.2	225.4	183.7	183.7
85°	197.6	175.3	128.0	103.0	103.0
87.5°	77.9	64.0	39.0	11.1	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)