

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: P197372

Luminaire Tested: **8WSL-LD2-80-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197372
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-LD2-80-UNV-L850-CD1-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

Summary

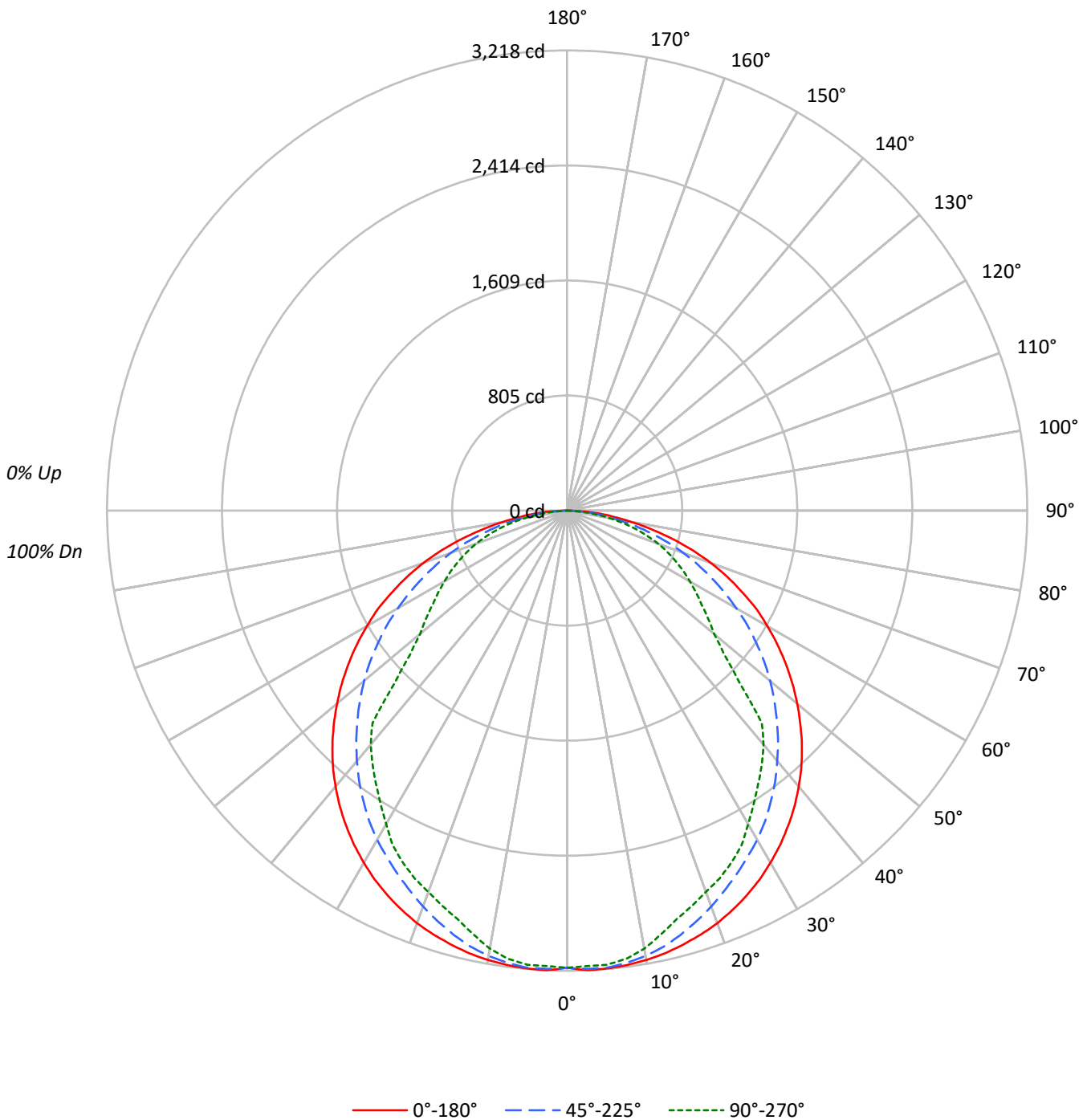
Lumens per Lamp: N/A
Luminaire Lumens: 8906.2 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 73.1
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°	9056	9056	9056
5°	9140	9124	9065
10°	9178	9093	8949
15°	9211	9003	8675
20°	9255	8882	8553
25°	9283	8767	8491
30°	9300	8693	8278
35°	9312	8589	8059
40°	9315	8454	7899
45°	9301	8309	6834
50°	9258	8167	5921
55°	9211	7974	5675
60°	9164	7745	5609
65°	9045	7465	5609
70°	8858	7174	5613
75°	8287	6610	5449
80°	7401	5719	4855
85°	6799	4404	3543



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.7	3.4
10°-20°	861.9	9.7
20°-30°	1299.2	14.6
30°-40°	1559.9	17.5
40°-50°	1588.7	17.8
50°-60°	1394.3	15.7
60°-70°	1084.6	12.2
70°-80°	645.0	7.2
80°-90°	168.8	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°	2464.8	27.7
0°-40°	4024.7	45.2
0°-60°	7007.8	78.7
0°-90°	8906.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8906.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3197	3197	3197	3197	3197	
5°	3215	3185	3209	3197	3188	306
15°	3141	3097	3070	2994	2958	888
25°	2970	2902	2805	2731	2717	1369
35°	2693	2608	2484	2366	2331	1685
45°	2322	2245	2074	1915	1706	1790
55°	1865	1809	1615	1294	1149	1668
65°	1350	1296	1114	878	837	1337
75°	757	719	604	489	498	801
85°	209	186	136	109	109	229
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3196.9	3196.9	3196.9	3196.9	3196.9
2.5°	3217.5	3185.1	3208.7	3202.8	3188.0
5°	3214.6	3185.1	3208.7	3196.9	3188.0
7.5°	3205.7	3176.2	3191.0	3173.3	3161.5
10°	3191.0	3158.6	3161.5	3132.1	3111.4
12.5°	3170.4	3132.1	3123.2	3064.3	3034.8
15°	3140.9	3096.7	3070.2	2993.6	2958.2
17.5°	3108.5	3058.4	3011.2	2925.8	2899.3
20°	3070.2	3011.2	2946.4	2858.0	2837.4
22.5°	3023.0	2961.2	2875.7	2796.2	2784.4
25°	2970.0	2902.2	2805.0	2731.3	2716.6
27.5°	2911.1	2831.5	2731.3	2657.7	2640.0
30°	2843.3	2760.8	2657.7	2572.2	2531.0
32.5°	2772.6	2687.1	2575.2	2466.2	2427.9
35°	2693.0	2607.6	2483.8	2366.0	2330.6
37.5°	2610.5	2522.1	2389.6	2265.8	2236.3
40°	2519.2	2433.7	2286.4	2165.6	2136.2
42.5°	2424.9	2342.4	2183.3	2062.5	2015.4
45°	2321.8	2245.2	2074.3	1915.2	1706.0
47.5°	2212.8	2142.1	1965.3	1729.6	1487.9
50°	2100.8	2036.0	1853.3	1564.6	1343.6
52.5°	1985.9	1927.0	1738.4	1420.2	1243.4
55°	1865.1	1809.1	1614.6	1293.5	1149.1
57.5°	1744.3	1688.3	1496.8	1178.6	1069.6
60°	1617.6	1564.6	1367.1	1072.5	990.0
62.5°	1493.8	1434.9	1240.4	975.3	916.3
65°	1349.5	1296.4	1113.7	878.0	836.8
67.5°	1213.9	1157.9	990.0	783.7	760.2
70°	1069.6	1013.6	866.2	686.5	677.7
72.5°	916.3	872.1	736.6	592.2	586.3
75°	757.2	718.9	604.0	489.1	497.9
77.5°	601.1	577.5	477.3	391.9	397.8
80°	453.7	436.1	350.6	291.7	297.6
82.5°	324.1	309.4	238.7	194.5	194.5
85°	209.2	185.6	135.5	109.0	109.0
87.5°	82.5	67.8	41.2	11.8	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)