

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: P197364

Luminaire Tested: **8WSL-LD2-70-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197364
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-LD2-70-UNV-L850-CD1-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT85W1202772A0DIML

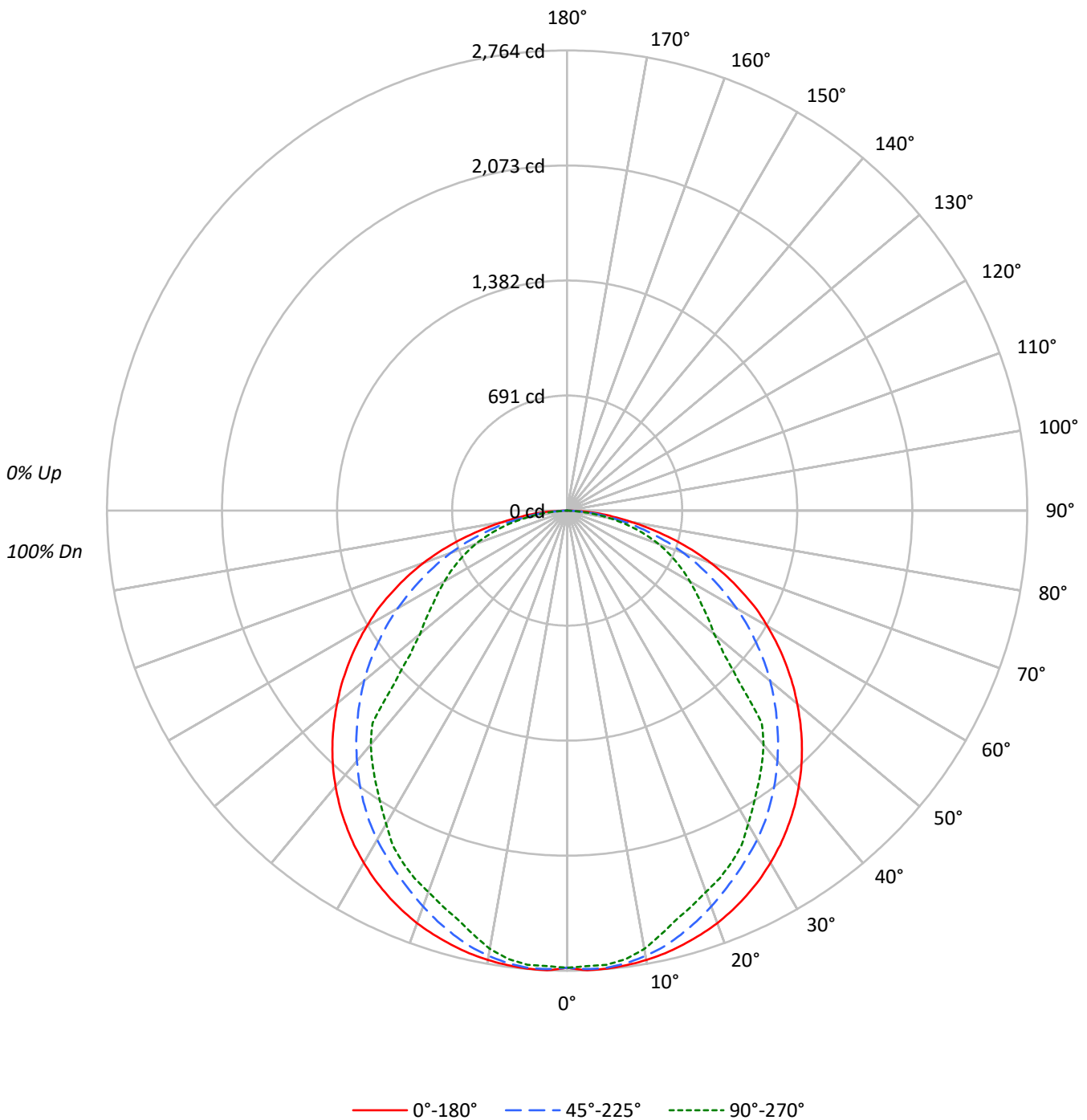
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7650.6 lumens
Efficiency: N/A
Efficacy: 120.3 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): 63.6
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°	7779	7779	7779
5°	7852	7837	7787
10°	7884	7811	7688
15°	7912	7734	7452
20°	7950	7629	7347
25°	7974	7531	7294
30°	7989	7467	7111
35°	8000	7378	6923
40°	8002	7263	6785
45°	7990	7138	5871
50°	7952	7016	5086
55°	7912	6850	4875
60°	7872	6653	4818
65°	7770	6412	4818
70°	7609	6163	4821
75°	7119	5679	4681
80°	6359	4913	4169
85°	5840	3783	3042



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	3.4
10°-20°	740.4	9.7
20°-30°	1116.1	14.6
30°-40°	1340.0	17.5
40°-50°	1364.8	17.8
50°-60°	1197.7	15.7
60°-70°	931.7	12.2
70°-80°	554.1	7.2
80°-90°	145.0	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°	2117.3	27.7
0°-40°	3457.3	45.2
0°-60°	6019.8	78.7
0°-90°	7650.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7650.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2746	2746	2746	2746	2746	
5°	2761	2736	2756	2746	2739	263
15°	2698	2660	2637	2572	2541	762
25°	2551	2493	2410	2346	2334	1176
35°	2313	2240	2134	2032	2002	1448
45°	1994	1929	1782	1645	1466	1538
55°	1602	1554	1387	1111	987	1433
65°	1159	1114	957	754	719	1148
75°	650	618	519	420	428	688
85°	180	160	116	94	94	197
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2746.2	2746.2	2746.2	2746.2	2746.2
2.5°	2763.9	2736.1	2756.3	2751.2	2738.6
5°	2761.4	2736.1	2756.3	2746.2	2738.6
7.5°	2753.8	2728.5	2741.1	2725.9	2715.8
10°	2741.1	2713.3	2715.8	2690.5	2672.8
12.5°	2723.4	2690.5	2682.9	2632.3	2607.0
15°	2698.1	2660.1	2637.3	2571.5	2541.2
17.5°	2670.2	2627.2	2586.7	2513.3	2490.5
20°	2637.3	2586.7	2531.0	2455.1	2437.4
22.5°	2596.8	2543.7	2470.3	2402.0	2391.8
25°	2551.3	2493.1	2409.5	2346.3	2333.6
27.5°	2500.7	2432.3	2346.3	2283.0	2267.8
30°	2442.5	2371.6	2283.0	2209.6	2174.2
32.5°	2381.7	2308.3	2212.1	2118.5	2085.6
35°	2313.4	2240.0	2133.7	2032.4	2002.0
37.5°	2242.5	2166.6	2052.7	1946.4	1921.1
40°	2164.0	2090.6	1964.1	1860.3	1835.0
42.5°	2083.0	2012.2	1875.5	1771.7	1731.2
45°	1994.5	1928.6	1781.8	1645.2	1465.5
47.5°	1900.8	1840.1	1688.2	1485.7	1278.2
50°	1804.6	1748.9	1592.0	1344.0	1154.2
52.5°	1705.9	1655.3	1493.3	1220.0	1068.1
55°	1602.1	1554.1	1387.0	1111.1	987.1
57.5°	1498.4	1450.3	1285.8	1012.4	918.8
60°	1389.5	1344.0	1174.4	921.3	850.4
62.5°	1283.2	1232.6	1065.6	837.8	787.2
65°	1159.2	1113.7	956.7	754.2	718.8
67.5°	1042.8	994.7	850.4	673.3	653.0
70°	918.8	870.7	744.1	589.7	582.1
72.5°	787.2	749.2	632.8	508.7	503.7
75°	650.5	617.6	518.9	420.2	427.7
77.5°	516.3	496.1	410.0	336.6	341.7
80°	389.8	374.6	301.2	250.6	255.6
82.5°	278.4	265.8	205.0	167.0	167.0
85°	179.7	159.5	116.4	93.6	93.6
87.5°	70.9	58.2	35.4	10.1	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)