

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: P197360

Luminaire Tested: **8WSL-LD2-65-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197360
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-LD2-65-UNV-L850-CD1-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT50W

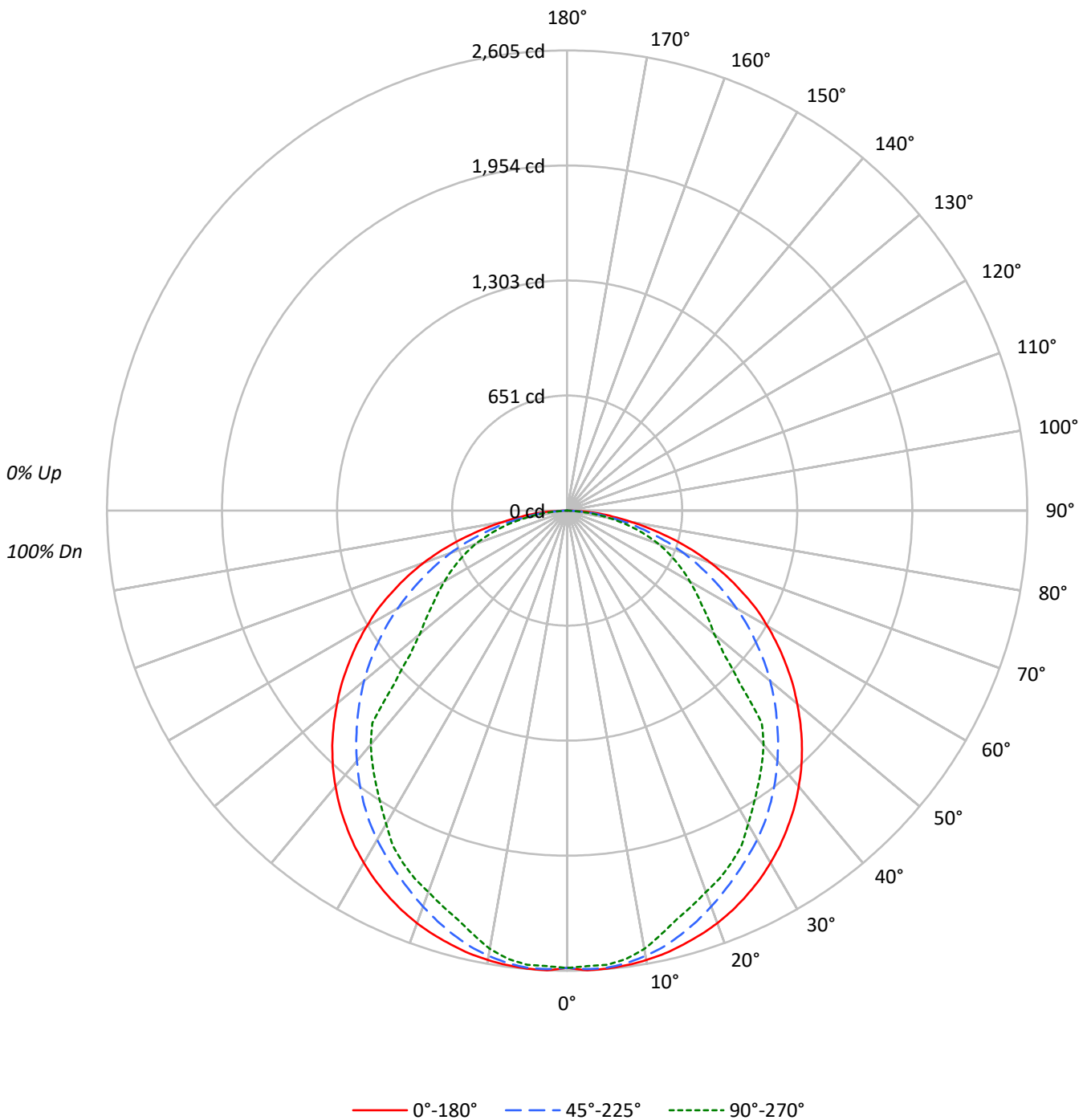
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7211.4 lumens
Efficiency: N/A
Efficacy: 125.2 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): 57.6
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°	7332	7332	7332
5°	7401	7388	7340
10°	7432	7363	7247
15°	7458	7290	7024
20°	7494	7192	6926
25°	7516	7098	6875
30°	7530	7039	6703
35°	7540	6955	6526
40°	7543	6846	6396
45°	7531	6728	5534
50°	7496	6613	4794
55°	7458	6457	4595
60°	7420	6271	4541
65°	7324	6044	4542
70°	7172	5809	4544
75°	6710	5353	4413
80°	5993	4631	3931
85°	5506	3565	2870



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.9	3.4
10°-20°	697.9	9.7
20°-30°	1052.0	14.6
30°-40°	1263.1	17.5
40°-50°	1286.4	17.8
50°-60°	1129.0	15.7
60°-70°	878.2	12.2
70°-80°	522.3	7.2
80°-90°	136.7	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°	1995.8	27.7
0°-40°	3258.9	45.2
0°-60°	5674.3	78.7
0°-90°	7211.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7211.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2588	2588	2588	2588	2588	
5°	2603	2579	2598	2588	2581	248
15°	2543	2507	2486	2424	2395	719
25°	2405	2350	2271	2212	2200	1109
35°	2181	2111	2011	1916	1887	1365
45°	1880	1818	1680	1551	1381	1450
55°	1510	1465	1307	1047	930	1350
65°	1093	1050	902	711	678	1082
75°	613	582	489	396	403	648
85°	169	150	110	88	88	186
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2588.5	2588.5	2588.5	2588.5	2588.5
2.5°	2605.2	2579.0	2598.1	2593.3	2581.4
5°	2602.9	2579.0	2598.1	2588.5	2581.4
7.5°	2595.7	2571.8	2583.8	2569.5	2559.9
10°	2583.8	2557.5	2559.9	2536.1	2519.4
12.5°	2567.1	2536.1	2528.9	2481.2	2457.3
15°	2543.2	2507.4	2486.0	2423.9	2395.3
17.5°	2517.0	2476.4	2438.2	2369.1	2347.6
20°	2486.0	2438.2	2385.8	2314.2	2297.5
22.5°	2447.8	2397.7	2328.5	2264.1	2254.5
25°	2404.8	2350.0	2271.2	2211.6	2199.7
27.5°	2357.1	2292.7	2211.6	2152.0	2137.6
30°	2302.3	2235.5	2152.0	2082.8	2049.4
32.5°	2245.0	2175.8	2085.2	1996.9	1965.9
35°	2180.6	2111.4	2011.2	1915.8	1887.1
37.5°	2113.8	2042.2	1934.9	1834.6	1810.8
40°	2039.8	1970.6	1851.3	1753.5	1729.7
42.5°	1963.5	1896.7	1767.8	1670.0	1631.9
45°	1880.0	1817.9	1679.6	1550.7	1381.4
47.5°	1791.7	1734.4	1591.3	1400.4	1204.8
50°	1701.0	1648.6	1500.6	1266.8	1087.9
52.5°	1608.0	1560.3	1407.6	1149.9	1006.8
55°	1510.2	1464.9	1307.4	1047.3	930.4
57.5°	1412.4	1367.0	1212.0	954.3	866.0
60°	1309.8	1266.8	1107.0	868.4	801.6
62.5°	1209.6	1161.9	1004.4	789.7	742.0
65°	1092.7	1049.7	901.8	711.0	677.6
67.5°	982.9	937.6	801.6	634.6	615.5
70°	866.0	820.7	701.4	555.9	548.7
72.5°	742.0	706.2	596.4	479.5	474.8
75°	613.1	582.1	489.1	396.0	403.2
77.5°	486.7	467.6	386.5	317.3	322.1
80°	367.4	353.1	283.9	236.2	241.0
82.5°	262.4	250.5	193.2	157.5	157.5
85°	169.4	150.3	109.7	88.3	88.3
87.5°	66.8	54.9	33.4	9.5	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)