

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: P192424

Luminaire Tested: **4WSL-LD2-60-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192424
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-LD2-60-UNV-L850-CD1-U
Description: 4FT Linear Wavestream System, L850
Light Source: (238) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT50W

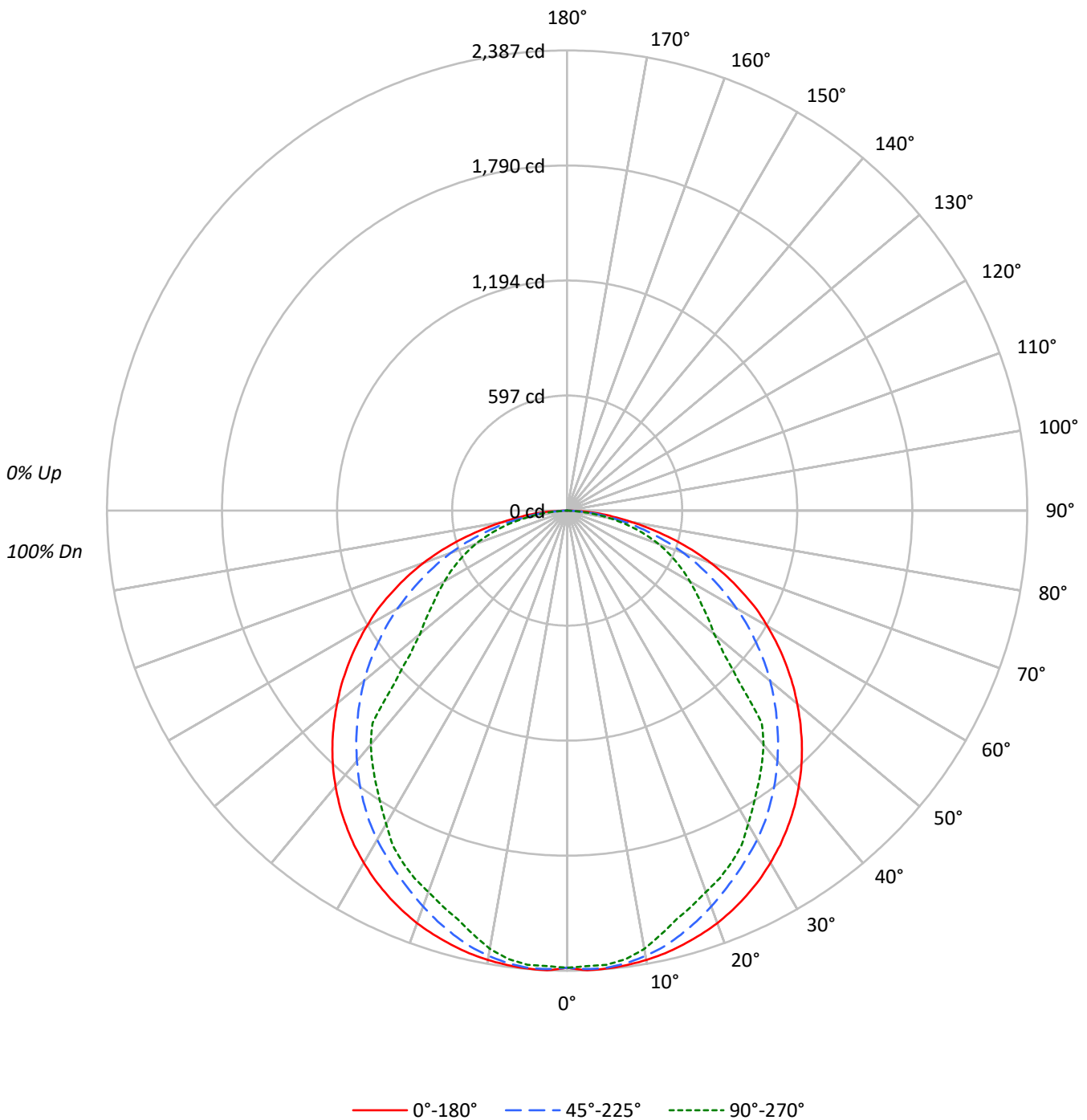
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6607.0 lumens
Efficiency: N/A
Efficacy: 117.6 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): 56.2
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°	13436	13436	13436
5°	13561	13536	13449
10°	13618	13492	13278
15°	13666	13358	12871
20°	13731	13178	12690
25°	13773	13007	12597
30°	13798	12897	12283
35°	13817	12743	11958
40°	13821	12544	11720
45°	13800	12329	10140
50°	13736	12118	8784
55°	13666	11831	8420
60°	13597	11491	8321
65°	13420	11075	8322
70°	13142	10644	8327
75°	12295	9808	8086
80°	10981	8486	7204
85°	10088	6533	5259



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	225.3	3.4
10°-20°	639.4	9.7
20°-30°	963.8	14.6
30°-40°	1157.2	17.5
40°-50°	1178.6	17.8
50°-60°	1034.4	15.7
60°-70°	804.6	12.2
70°-80°	478.5	7.2
80°-90°	125.2	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°	1828.5	27.7
0°-40°	2985.7	45.2
0°-60°	5198.7	78.7
0°-90°	6607.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6607.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2372	2372	2372	2372	2372	
5°	2385	2363	2380	2372	2365	227
15°	2330	2297	2278	2221	2194	658
25°	2203	2153	2081	2026	2015	1016
35°	1998	1934	1843	1755	1729	1250
45°	1722	1666	1539	1421	1266	1328
55°	1384	1342	1198	960	852	1237
65°	1001	962	826	651	621	992
75°	562	533	448	363	369	594
85°	155	138	100	81	81	170
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2371.6	2371.6	2371.6	2371.6	2371.6
2.5°	2386.9	2362.8	2380.3	2376.0	2365.0
5°	2384.7	2362.8	2380.3	2371.6	2365.0
7.5°	2378.1	2356.3	2367.2	2354.1	2345.4
10°	2367.2	2343.2	2345.4	2323.5	2308.2
12.5°	2351.9	2323.5	2316.9	2273.2	2251.4
15°	2330.1	2297.3	2277.6	2220.8	2194.5
17.5°	2306.0	2268.8	2233.9	2170.5	2150.8
20°	2277.6	2233.9	2185.8	2120.2	2104.9
22.5°	2242.6	2196.7	2133.3	2074.3	2065.6
25°	2203.3	2153.0	2080.9	2026.2	2015.3
27.5°	2159.6	2100.5	2026.2	1971.6	1958.5
30°	2109.3	2048.1	1971.6	1908.2	1877.6
32.5°	2056.8	1993.4	1910.4	1829.5	1801.1
35°	1997.8	1934.4	1842.6	1755.2	1729.0
37.5°	1936.6	1871.0	1772.7	1680.9	1659.0
40°	1868.8	1805.5	1696.2	1606.6	1584.7
42.5°	1798.9	1737.7	1619.7	1530.1	1495.1
45°	1722.4	1665.6	1538.8	1420.8	1265.6
47.5°	1641.5	1589.1	1457.9	1283.1	1103.8
50°	1558.5	1510.4	1374.9	1160.7	996.7
52.5°	1473.2	1429.5	1289.6	1053.6	922.4
55°	1383.6	1342.1	1197.8	959.6	852.5
57.5°	1294.0	1252.5	1110.4	874.3	793.4
60°	1200.0	1160.7	1014.2	795.6	734.4
62.5°	1108.2	1064.5	920.2	723.5	679.8
65°	1001.1	961.7	826.2	651.4	620.8
67.5°	900.5	859.0	734.4	581.4	563.9
70°	793.4	751.9	642.6	509.3	502.7
72.5°	679.8	647.0	546.4	439.3	435.0
75°	561.7	533.3	448.1	362.8	369.4
77.5°	445.9	428.4	354.1	290.7	295.1
80°	336.6	323.5	260.1	216.4	220.8
82.5°	240.4	229.5	177.0	144.3	144.3
85°	155.2	137.7	100.5	80.9	80.9
87.5°	61.2	50.3	30.6	8.7	4.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)