

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: P192420

Luminaire Tested: **4WSL-LD2-55-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192420
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-LD2-55-UNV-L850-CD1-U
Description: 4FT Linear Wavestream System, L850
Light Source: (238) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT50W

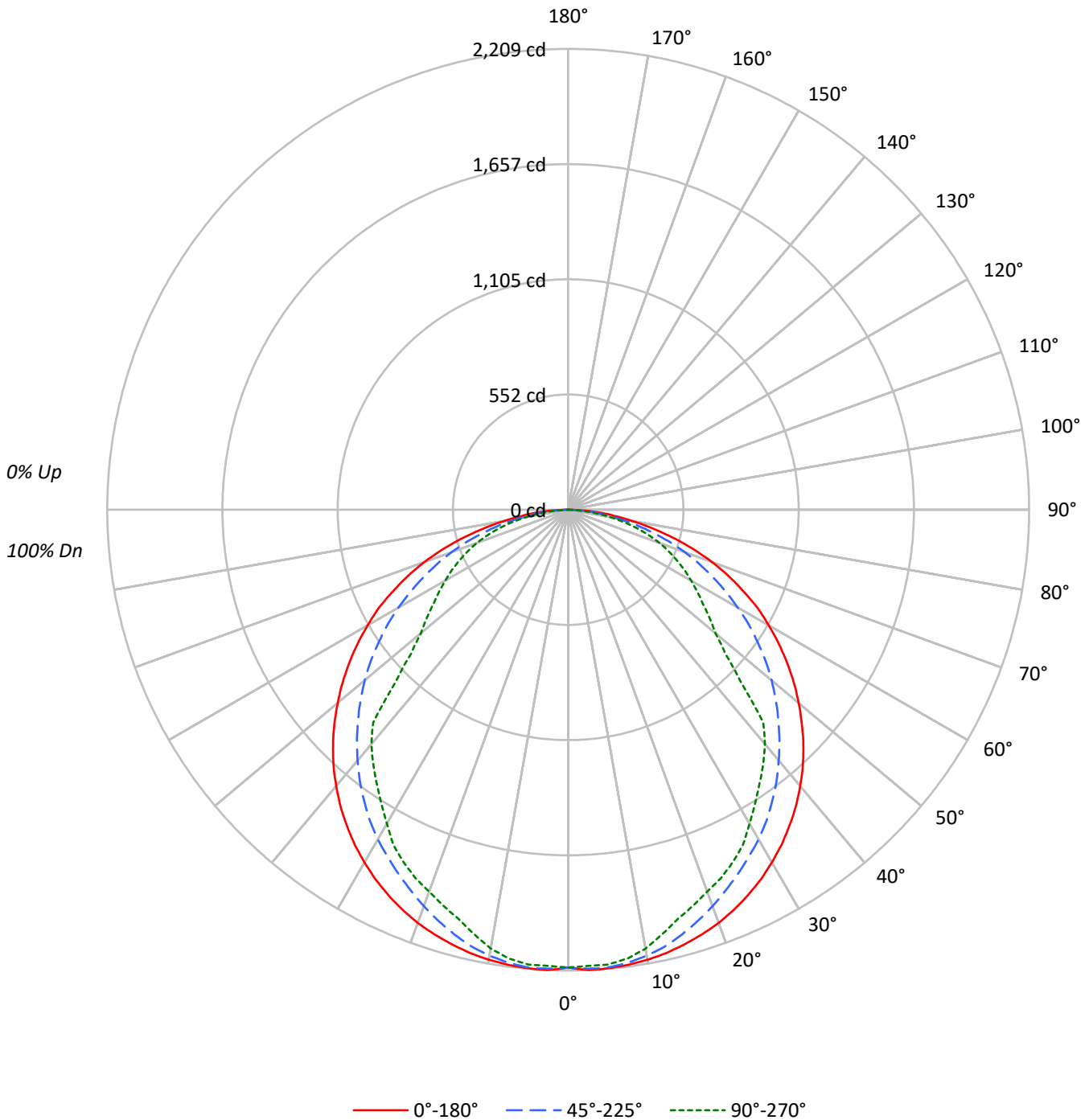
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6114.0 lumens
Efficiency: N/A
Efficacy: 122.5 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): 49.9
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	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°	12433	12433	12433
5°	12550	12526	12446
10°	12602	12485	12288
15°	12646	12361	11911
20°	12706	12194	11743
25°	12745	12037	11657
30°	12769	11935	11366
35°	12786	11792	11065
40°	12790	11608	10845
45°	12770	11409	9383
50°	12711	11213	8129
55°	12647	10948	7791
60°	12582	10634	7700
65°	12418	10250	7700
70°	12161	9851	7706
75°	11378	9077	7482
80°	10163	7853	6665
85°	9334	6045	4862



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.5	3.4
10°-20°	591.7	9.7
20°-30°	891.9	14.6
30°-40°	1070.9	17.5
40°-50°	1090.6	17.8
50°-60°	957.2	15.7
60°-70°	744.5	12.2
70°-80°	442.8	7.2
80°-90°	115.9	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°	1692.1	27.7
0°-40°	2762.9	45.2
0°-60°	4810.7	78.7
0°-90°	6114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2195	2195	2195	2195	2195	
5°	2207	2186	2203	2195	2189	210
15°	2156	2126	2108	2055	2031	609
25°	2039	1992	1926	1875	1865	940
35°	1849	1790	1705	1624	1600	1157
45°	1594	1541	1424	1315	1171	1229
55°	1280	1242	1108	888	789	1145
65°	926	890	765	603	574	918
75°	520	494	415	336	342	550
85°	144	127	93	75	75	157
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2194.6	2194.6	2194.6	2194.6	2194.6
2.5°	2208.8	2186.5	2202.7	2198.7	2188.6
5°	2206.8	2186.5	2202.7	2194.6	2188.6
7.5°	2200.7	2180.5	2190.6	2178.4	2170.3
10°	2190.6	2168.3	2170.3	2150.1	2136.0
12.5°	2176.4	2150.1	2144.1	2103.6	2083.4
15°	2156.2	2125.8	2107.6	2055.1	2030.8
17.5°	2133.9	2099.6	2067.2	2008.5	1990.3
20°	2107.6	2067.2	2022.7	1962.0	1947.9
22.5°	2075.3	2032.8	1974.1	1919.5	1911.4
25°	2038.9	1992.3	1925.6	1875.0	1864.9
27.5°	1998.4	1943.8	1875.0	1824.5	1812.3
30°	1951.9	1895.3	1824.5	1765.8	1737.5
32.5°	1903.4	1844.7	1767.8	1693.0	1666.7
35°	1848.7	1790.1	1705.1	1624.2	1599.9
37.5°	1792.1	1731.4	1640.4	1555.4	1535.2
40°	1729.4	1670.7	1569.6	1486.7	1466.5
42.5°	1664.7	1608.0	1498.8	1415.9	1383.5
45°	1593.9	1541.3	1424.0	1314.7	1171.1
47.5°	1519.0	1470.5	1349.1	1187.3	1021.5
50°	1442.2	1397.7	1272.3	1074.0	922.3
52.5°	1363.3	1322.8	1193.4	974.9	853.6
55°	1280.4	1241.9	1108.4	888.0	788.8
57.5°	1197.4	1159.0	1027.5	809.1	734.2
60°	1110.5	1074.0	938.5	736.3	679.6
62.5°	1025.5	985.0	851.6	669.5	629.1
65°	926.4	890.0	764.6	602.8	574.4
67.5°	833.3	794.9	679.6	538.0	521.9
70°	734.2	695.8	594.7	471.3	465.2
72.5°	629.1	598.7	505.7	406.6	402.5
75°	519.8	493.5	414.7	335.8	341.8
77.5°	412.6	396.4	327.7	269.0	273.1
80°	311.5	299.4	240.7	200.2	204.3
82.5°	222.5	212.4	163.8	133.5	133.5
85°	143.6	127.4	93.0	74.8	74.8
87.5°	56.6	46.5	28.3	8.1	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)