

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: P197384

Luminaire Tested: **8WSL-LD2-110-UNV-L850-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197384
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-LD2-110-UNV-L850-CD2-U
Description: 8FT. Linear Wavestream System, L850
Light Source: (476) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT50W

Summary

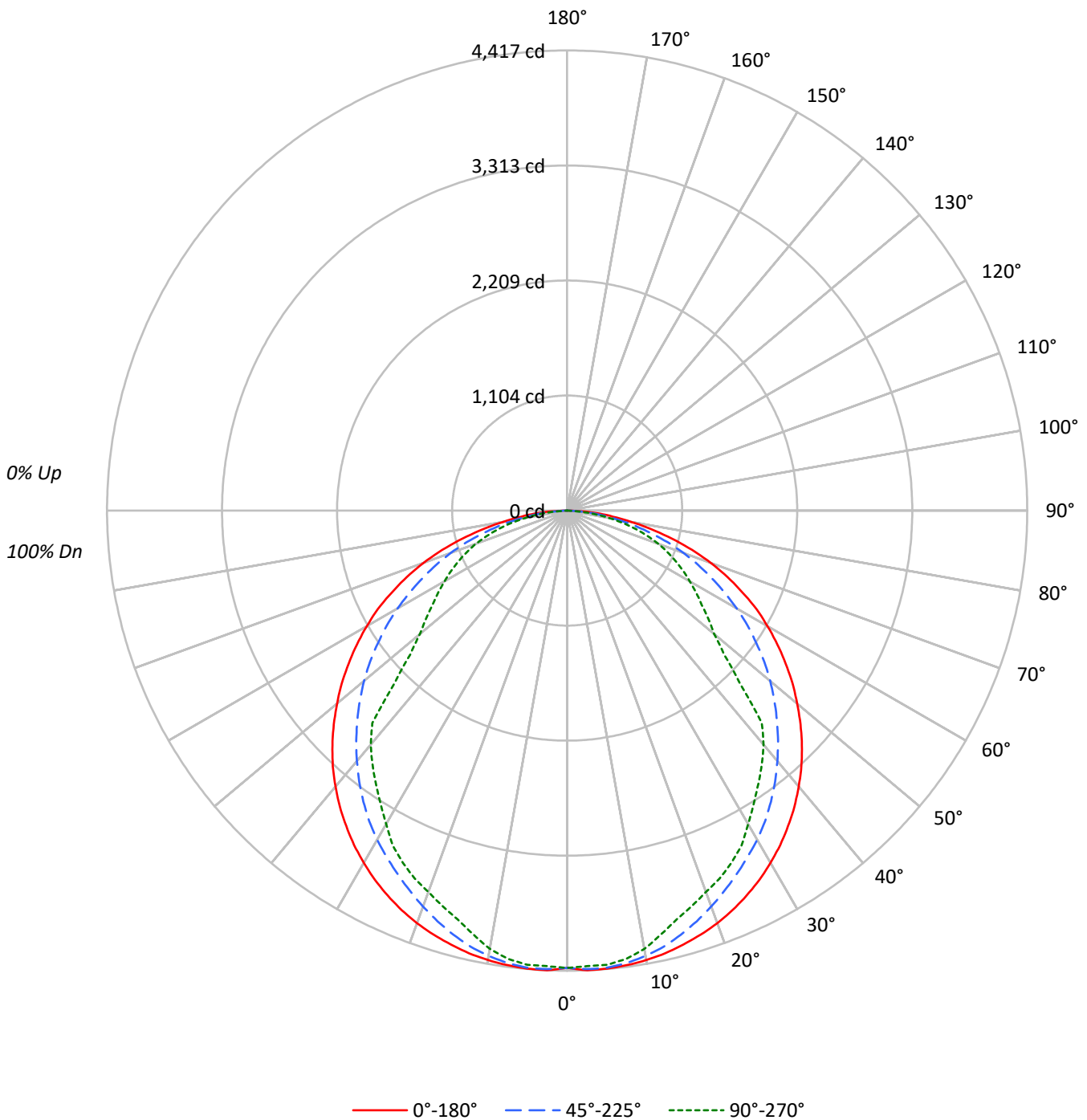
Lumens per Lamp: N/A
Luminaire Lumens: 12227.3 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 98.9
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	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					100			
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84					84			
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70					70			
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	59					59			
4	82	70	62	55	80	69	61	54	67	59	54	64	58	53	62	57	52	50					50			
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43					43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	51	45	40	38					38			
7	65	51	43	36	63	51	42	36	49	42	36	48	41	36	46	40	35	33					33			
8	60	47	38	33	59	46	38	32	45	37	32	44	37	32	42	36	32	30					30			
9	57	43	35	29	55	42	35	29	41	34	29	40	34	29	39	33	29	27					27			
10	53	40	32	27	52	39	32	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12432	12432	12432
5°	12549	12526	12445
10°	12601	12484	12287
15°	12645	12361	11910
20°	12706	12194	11743
25°	12744	12036	11657
30°	12768	11934	11365
35°	12785	11792	11064
40°	12789	11607	10844
45°	12769	11408	9382
50°	12710	11213	8129
55°	12646	10947	7791
60°	12581	10633	7700
65°	12418	10249	7700
70°	12161	9850	7706
75°	11378	9076	7482
80°	10163	7853	6665
85°	9334	6048	4865



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	416.9	3.4
10°-20°	1183.2	9.7
20°-30°	1783.7	14.6
30°-40°	2141.6	17.5
40°-50°	2181.2	17.8
50°-60°	1914.2	15.7
60°-70°	1489.0	12.2
70°-80°	885.6	7.2
80°-90°	231.8	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°	3383.9	27.7
0°-40°	5525.5	45.2
0°-60°	9620.9	78.7
0°-90°	12227.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12227.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4389	4389	4389	4389	4389	
5°	4413	4373	4405	4389	4377	420
15°	4312	4251	4215	4110	4061	1219
25°	4078	3984	3851	3750	3730	1880
35°	3697	3580	3410	3248	3200	2314
45°	3188	3082	2848	2629	2342	2458
55°	2561	2484	2217	1776	1578	2290
65°	1853	1780	1529	1205	1149	1835
75°	1040	987	829	672	684	1099
85°	287	255	186	150	150	315
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4389.0	4389.0	4389.0	4389.0	4389.0
2.5°	4417.3	4372.8	4405.1	4397.1	4376.8
5°	4413.2	4372.8	4405.1	4389.0	4376.8
7.5°	4401.1	4360.7	4380.9	4356.6	4340.4
10°	4380.9	4336.4	4340.4	4300.0	4271.7
12.5°	4352.6	4300.0	4287.8	4206.9	4166.5
15°	4312.1	4251.4	4215.0	4109.9	4061.3
17.5°	4267.6	4198.8	4134.1	4016.8	3980.4
20°	4215.0	4134.1	4045.1	3923.8	3895.5
22.5°	4150.3	4065.4	3948.0	3838.8	3822.6
25°	4077.5	3984.5	3851.0	3749.8	3729.6
27.5°	3996.6	3887.4	3749.8	3648.7	3624.4
30°	3903.6	3790.3	3648.7	3531.4	3474.8
32.5°	3806.5	3689.2	3535.4	3385.8	3333.2
35°	3697.3	3579.9	3410.0	3248.2	3199.7
37.5°	3584.0	3462.6	3280.6	3110.7	3070.3
40°	3458.6	3341.3	3139.0	2973.2	2932.7
42.5°	3329.1	3215.9	2997.4	2831.6	2766.9
45°	3187.6	3082.4	2847.8	2629.3	2342.1
47.5°	3037.9	2940.8	2698.1	2374.5	2042.8
50°	2884.2	2795.2	2544.4	2148.0	1844.6
52.5°	2726.4	2645.5	2386.6	1949.8	1707.0
55°	2560.6	2483.7	2216.7	1775.8	1577.6
57.5°	2394.7	2317.9	2054.9	1618.1	1468.4
60°	2220.8	2148.0	1876.9	1472.4	1359.2
62.5°	2050.9	1970.0	1703.0	1338.9	1258.0
65°	1852.7	1779.9	1529.1	1205.4	1148.8
67.5°	1666.6	1589.7	1359.2	1076.0	1043.6
70°	1468.4	1391.5	1189.3	942.5	930.4
72.5°	1258.0	1197.4	1011.3	813.1	805.0
75°	1039.6	987.0	829.3	671.5	683.6
77.5°	825.2	792.8	655.3	538.0	546.1
80°	623.0	598.7	481.4	400.5	408.6
82.5°	445.0	424.7	327.7	267.0	267.0
85°	287.2	254.8	186.1	149.7	149.7
87.5°	113.3	93.0	56.6	16.2	8.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)