

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: P197379

Luminaire Tested: **8WSL-LD2-100-UNV-L840-CD2-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P197379
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-LD2-100-UNV-L840-CD2-U
Description: 8FT. Linear Wavestream System, L840
Light Source: (476) 4000K CCT, 80 CRI LEDS
EL236N0119D840
Ballast/Driver: OSRAM
OT50W

Summary

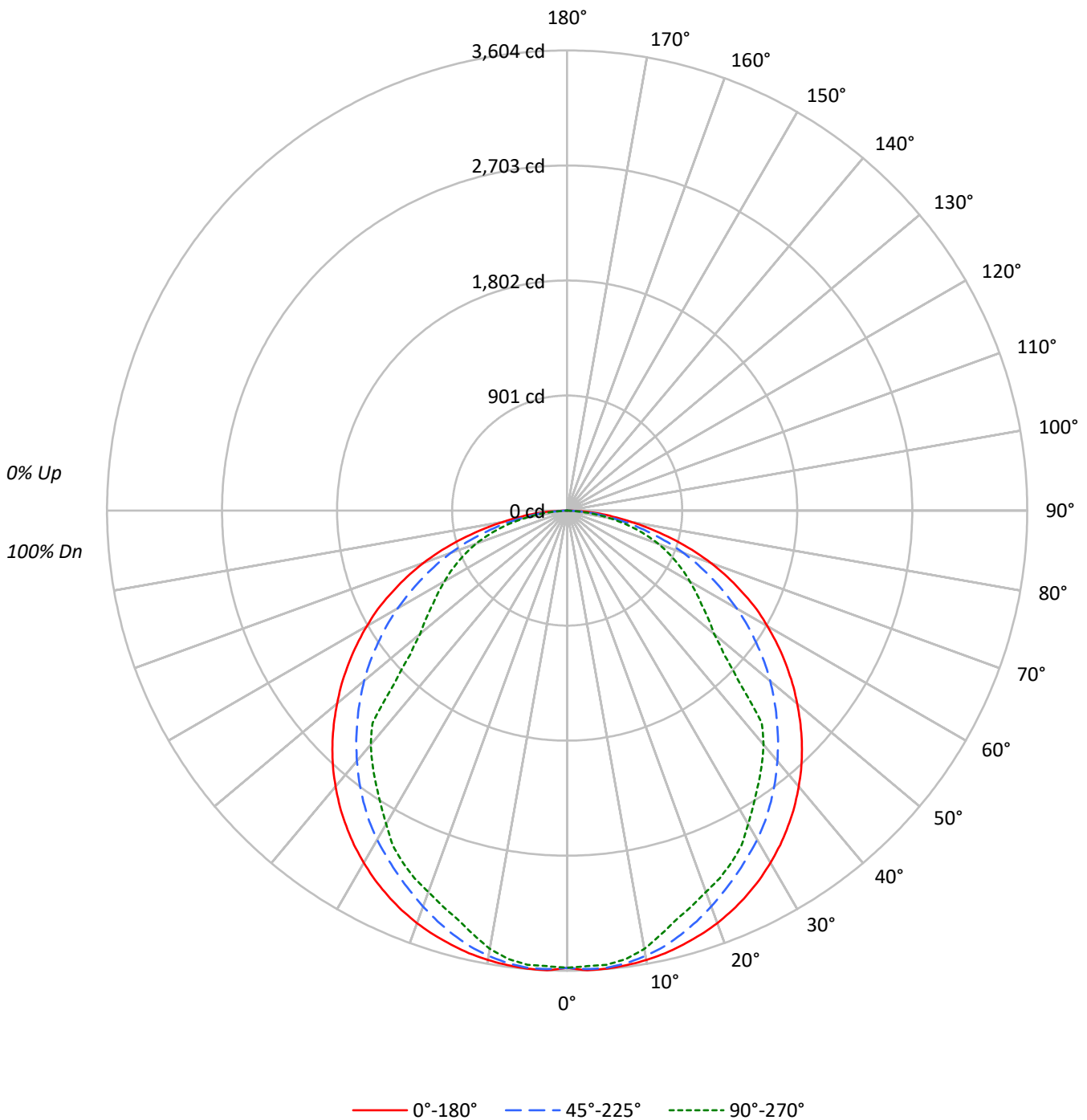
Lumens per Lamp: N/A
Luminaire Lumens: 9976.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.32 / 1.18 / 1.35
Luminous Opening: Rectangular (W 0.5' x L: 7.6' x H: 0')
CIE Type: Direct

Input Watts (W): 90.6
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°	10143	10143	10143
5°	10238	10220	10154
10°	10281	10186	10025
15°	10317	10085	9717
20°	10367	9949	9580
25°	10398	9820	9510
30°	10417	9737	9273
35°	10431	9621	9027
40°	10434	9470	8848
45°	10418	9307	7655
50°	10370	9148	6632
55°	10317	8932	6356
60°	10265	8676	6282
65°	10132	8361	6282
70°	9922	8036	6287
75°	9283	7405	6105
80°	8292	6406	5437
85°	7615	4934	3968



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	340.2	3.4
10°-20°	965.4	9.7
20°-30°	1455.3	14.6
30°-40°	1747.3	17.5
40°-50°	1779.6	17.8
50°-60°	1561.8	15.7
60°-70°	1214.8	12.2
70°-80°	722.5	7.2
80°-90°	189.1	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°	2760.9	27.7
0°-40°	4508.2	45.2
0°-60°	7849.5	78.7
0°-90°	9976.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9976.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3581	3581	3581	3581	3581	
5°	3601	3568	3594	3581	3571	343
15°	3518	3469	3439	3353	3314	994
25°	3327	3251	3142	3059	3043	1534
35°	3016	2921	2782	2650	2611	1888
45°	2601	2515	2323	2145	1911	2005
55°	2089	2026	1809	1449	1287	1868
65°	1512	1452	1248	984	937	1497
75°	848	805	677	548	558	897
85°	234	208	152	122	122	257
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3580.9	3580.9	3580.9	3580.9	3580.9
2.5°	3604.0	3567.7	3594.1	3587.5	3571.0
5°	3600.7	3567.7	3594.1	3580.9	3571.0
7.5°	3590.8	3557.8	3574.3	3554.5	3541.3
10°	3574.3	3538.0	3541.3	3508.3	3485.2
12.5°	3551.2	3508.3	3498.4	3432.4	3399.4
15°	3518.2	3468.7	3439.0	3353.2	3313.6
17.5°	3481.9	3425.8	3373.0	3277.2	3247.5
20°	3439.0	3373.0	3300.4	3201.3	3178.2
22.5°	3386.2	3316.9	3221.1	3132.0	3118.8
25°	3326.8	3250.8	3141.9	3059.4	3042.9
27.5°	3260.7	3171.6	3059.4	2976.9	2957.1
30°	3184.8	3092.4	2976.9	2881.2	2835.0
32.5°	3105.6	3009.9	2884.5	2762.4	2719.5
35°	3016.5	2920.8	2782.2	2650.2	2610.6
37.5°	2924.1	2825.1	2676.6	2538.0	2505.0
40°	2821.8	2726.1	2561.1	2425.8	2392.8
42.5°	2716.2	2623.8	2445.6	2310.2	2257.4
45°	2600.7	2514.9	2323.4	2145.2	1910.9
47.5°	2478.6	2399.4	2201.3	1937.3	1666.7
50°	2353.2	2280.5	2075.9	1752.5	1505.0
52.5°	2224.4	2158.4	1947.2	1590.8	1392.7
55°	2089.1	2026.4	1808.6	1448.9	1287.1
57.5°	1953.8	1891.1	1676.6	1320.1	1198.0
60°	1811.9	1752.5	1531.4	1201.3	1108.9
62.5°	1673.3	1607.3	1389.4	1092.4	1026.4
65°	1511.6	1452.2	1247.5	983.5	937.3
67.5°	1359.7	1297.0	1108.9	877.9	851.5
70°	1198.0	1135.3	970.3	769.0	759.1
72.5°	1026.4	976.9	825.1	663.4	656.8
75°	848.2	805.3	676.6	547.9	557.8
77.5°	673.3	646.9	534.7	438.9	445.5
80°	508.3	488.5	392.7	326.7	333.3
82.5°	363.0	346.5	267.3	217.8	217.8
85°	234.3	207.9	151.8	122.1	122.1
87.5°	92.4	75.9	46.2	13.2	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)