

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: P192400

Luminaire Tested: **4WSL-LD2-30-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P192400
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-LD2-30-UNV-L850-CD1-U
Description: 4FT Linear Wavestream System, L850
Light Source: (238) 5000K CCT, 80 CRI LEDS
EL236N0119D850
Ballast/Driver: OSRAM
OT30W

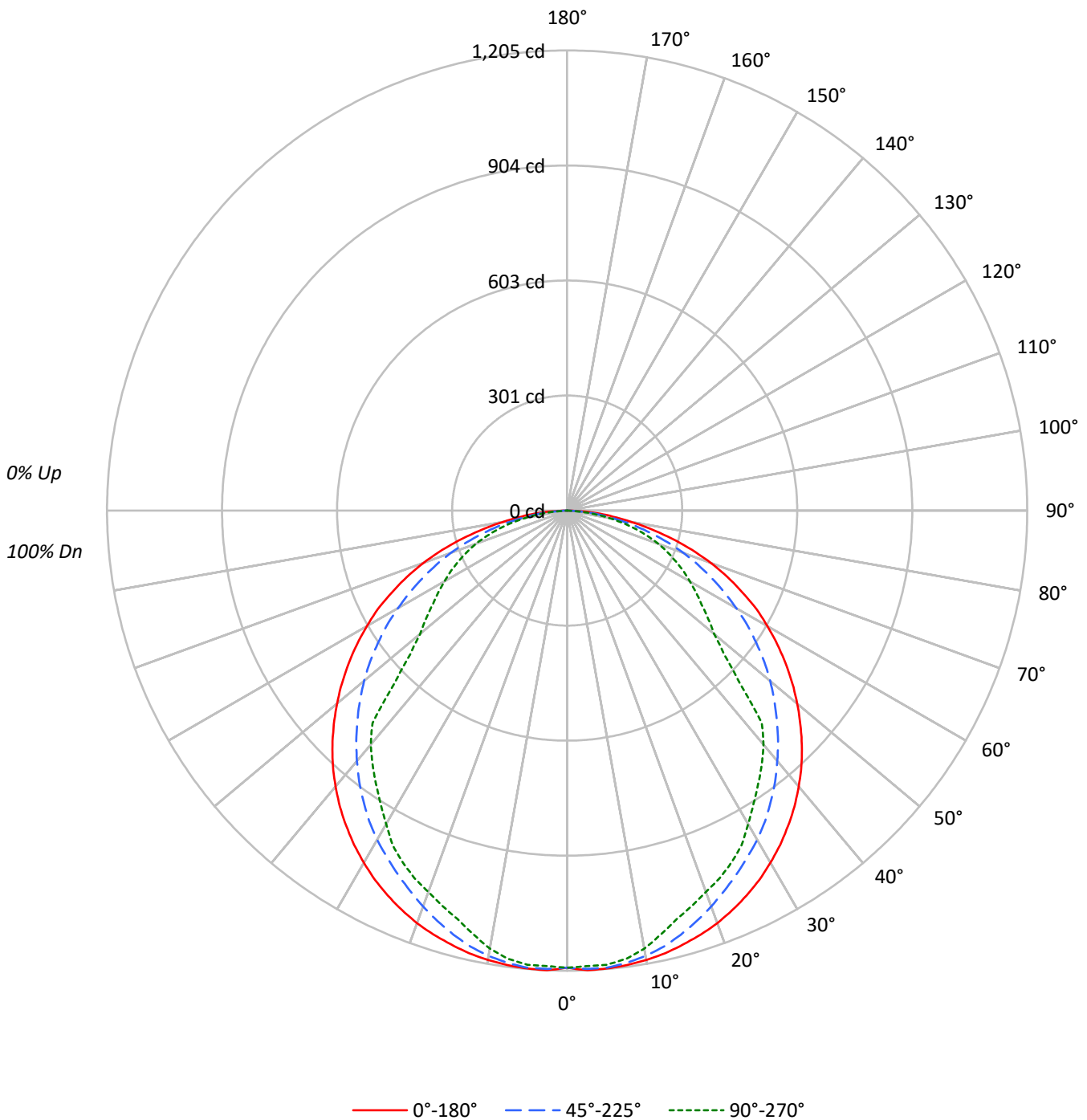
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3335.0 lumens
Efficiency: N/A
Efficacy: 133.9 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): 24.9
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°	6782	6782	6782
5°	6845	6833	6789
10°	6874	6811	6702
15°	6898	6743	6497
20°	6931	6652	6406
25°	6952	6566	6359
30°	6965	6510	6200
35°	6974	6433	6036
40°	6976	6332	5916
45°	6965	6223	5118
50°	6934	6117	4434
55°	6898	5972	4250
60°	6863	5800	4200
65°	6774	5591	4200
70°	6634	5373	4204
75°	6208	4951	4082
80°	5543	4284	3634
85°	5090	3302	2652



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.7	3.4
10°-20°	322.7	9.7
20°-30°	486.5	14.6
30°-40°	584.1	17.5
40°-50°	594.9	17.8
50°-60°	522.1	15.7
60°-70°	406.1	12.2
70°-80°	241.5	7.2
80°-90°	63.2	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°	923.0	27.7
0°-40°	1507.1	45.2
0°-60°	2624.1	78.7
0°-90°	3335.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3335.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1204	1193	1202	1197	1194	115
15°	1176	1160	1150	1121	1108	332
25°	1112	1087	1050	1023	1017	513
35°	1008	976	930	886	873	631
45°	869	841	777	717	639	670
55°	698	677	605	484	430	625
65°	505	486	417	329	313	501
75°	284	269	226	183	186	300
85°	78	70	51	41	41	86
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.1	1197.1	1197.1	1197.1	1197.1
2.5°	1204.8	1192.7	1201.5	1199.3	1193.8
5°	1203.7	1192.7	1201.5	1197.1	1193.8
7.5°	1200.4	1189.4	1194.9	1188.3	1183.9
10°	1194.9	1182.8	1183.9	1172.8	1165.1
12.5°	1187.2	1172.8	1169.5	1147.4	1136.4
15°	1176.1	1159.6	1149.7	1121.0	1107.7
17.5°	1164.0	1145.2	1127.6	1095.6	1085.7
20°	1149.7	1127.6	1103.3	1070.2	1062.5
22.5°	1132.0	1108.8	1076.8	1047.0	1042.6
25°	1112.1	1086.8	1050.4	1022.8	1017.3
27.5°	1090.1	1060.3	1022.8	995.2	988.6
30°	1064.7	1033.8	995.2	963.2	947.7
32.5°	1038.2	1006.2	964.3	923.5	909.1
35°	1008.4	976.4	930.1	886.0	872.7
37.5°	977.5	944.4	894.8	848.4	837.4
40°	943.3	911.3	856.2	810.9	799.9
42.5°	908.0	877.1	817.6	772.3	754.7
45°	869.4	840.7	776.7	717.2	638.8
47.5°	828.6	802.1	735.9	647.6	557.2
50°	786.7	762.4	694.0	585.9	503.1
52.5°	743.6	721.6	651.0	531.8	465.6
55°	698.4	677.4	604.6	484.4	430.3
57.5°	653.2	632.2	560.5	441.3	400.5
60°	605.7	585.9	511.9	401.6	370.7
62.5°	559.4	537.3	464.5	365.2	343.1
65°	505.3	485.5	417.1	328.8	313.3
67.5°	454.6	433.6	370.7	293.5	284.7
70°	400.5	379.5	324.4	257.1	253.8
72.5°	343.1	326.6	275.8	221.8	219.6
75°	283.6	269.2	226.2	183.2	186.5
77.5°	225.1	216.2	178.7	146.7	148.9
80°	169.9	163.3	131.3	109.2	111.4
82.5°	121.4	115.8	89.4	72.8	72.8
85°	78.3	69.5	50.8	40.8	40.8
87.5°	30.9	25.4	15.4	4.4	2.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)