

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: P128120

Luminaire Tested: **14ALNG-LD4-26-UNV-L850-CD1-U**

Test Date: 08/28/14



Test Information

Test Method: LM-79-08
Report Number: P128120
Test Lab: INNOVATION CENTER-P2
Test Date: 08/28/14
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-26-UNV-L850-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24768)
Light Source: -
Ballast/Driver: -

Summary

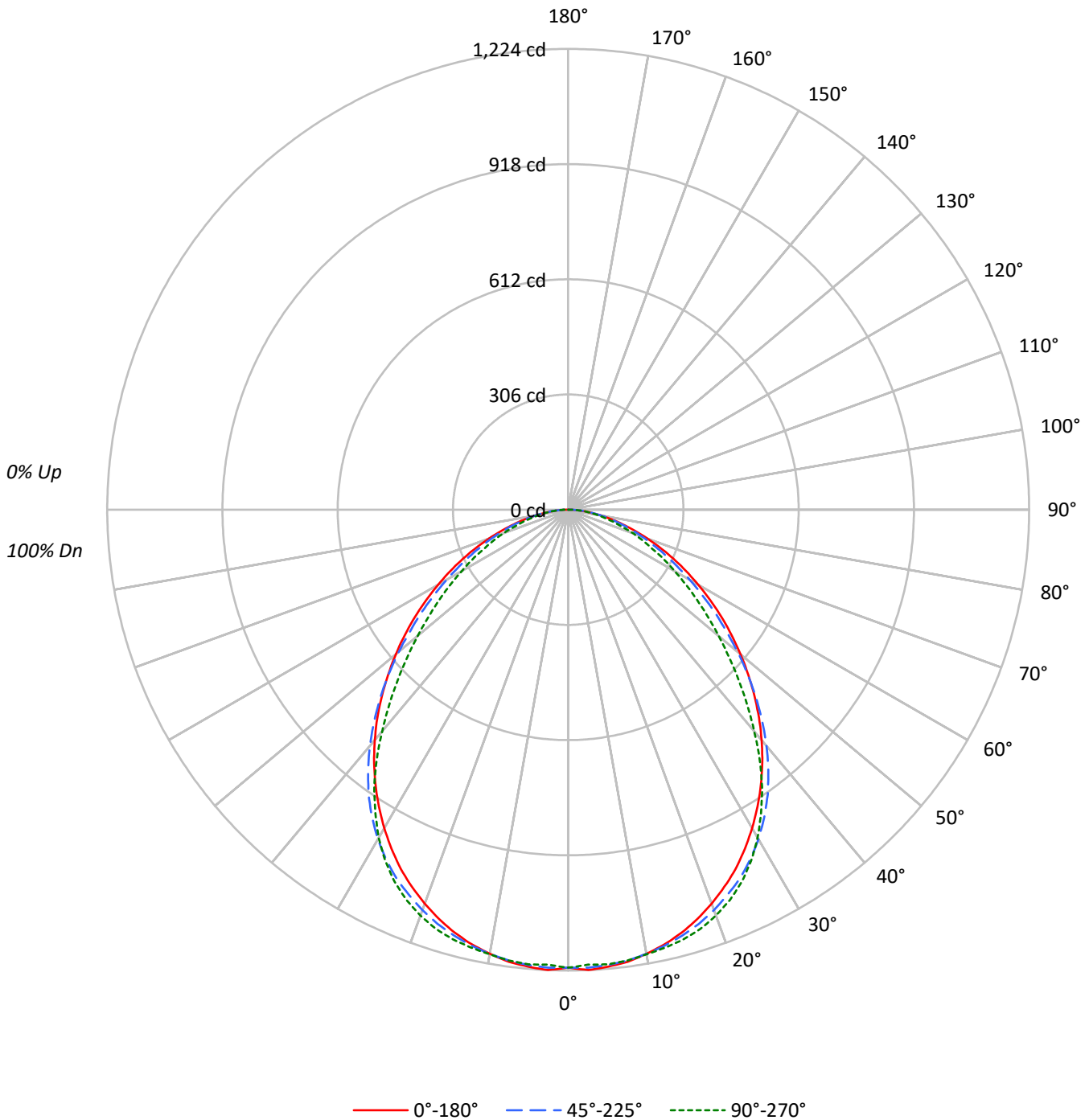
Lumens per Lamp: N/A
Luminaire Lumens: 2926.0 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.29
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3646	3646	3646
5°	3667	3654	3647
10°	3646	3646	3650
15°	3610	3634	3667
20°	3552	3611	3659
25°	3482	3572	3607
30°	3381	3498	3483
35°	3265	3380	3285
40°	3127	3207	3008
45°	2965	2987	2716
50°	2786	2740	2432
55°	2595	2482	2181
60°	2392	2236	1957
65°	2184	2015	1754
70°	1957	1834	1616
75°	1733	1670	1419
80°	1516	1516	1310
85°	1342	1417	1342



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.1	3.9
10°-20°	329.6	11.3
20°-30°	493.1	16.9
30°-40°	565.2	19.3
40°-50°	528.5	18.1
50°-60°	417.2	14.3
60°-70°	280.9	9.6
70°-80°	150.6	5.1
80°-90°	45.7	1.6
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°	937.9	32.1
0°-40°	1503.0	51.4
0°-60°	2448.8	83.7
0°-90°	2926.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2926.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1218	1206	1214	1211	1212	116
15°	1163	1156	1171	1176	1182	328
25°	1053	1053	1080	1087	1090	484
35°	892	902	924	906	898	557
45°	699	709	705	659	641	539
55°	496	499	475	430	417	444
65°	308	308	284	257	247	306
75°	150	153	144	128	122	160
85°	39	46	41	40	39	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1216.2	1216.2	1216.2	1216.2	1216.2
2.5°	1223.8	1210.8	1217.3	1215.2	1209.7
5°	1218.4	1206.5	1214.1	1210.8	1211.9
7.5°	1210.8	1198.9	1207.6	1205.4	1207.6
10°	1197.8	1187.0	1197.8	1196.7	1198.9
12.5°	1182.6	1172.9	1185.9	1188.1	1191.3
15°	1163.1	1155.5	1170.7	1176.1	1181.6
17.5°	1140.4	1133.9	1153.4	1162.0	1167.5
20°	1113.3	1110.0	1131.7	1140.4	1146.9
22.5°	1084.0	1084.0	1106.8	1115.4	1121.9
25°	1052.6	1052.6	1079.7	1087.3	1090.5
27.5°	1015.7	1020.0	1047.1	1052.6	1051.5
30°	976.7	983.2	1010.3	1009.2	1006.0
32.5°	935.5	944.2	969.1	960.4	952.8
35°	892.1	901.9	923.6	906.2	897.6
37.5°	846.6	857.4	872.6	846.6	834.7
40°	798.9	809.7	819.5	783.7	768.6
42.5°	750.1	759.9	762.1	719.8	703.5
45°	699.2	708.9	704.6	659.1	640.6
47.5°	648.2	656.9	646.1	598.4	578.9
50°	597.3	603.8	587.5	538.7	521.4
52.5°	546.3	551.8	527.9	483.5	467.2
55°	496.5	498.6	474.8	430.3	417.3
57.5°	446.6	447.7	421.7	382.7	370.7
60°	398.9	398.9	372.9	337.1	326.3
62.5°	352.3	352.3	326.3	294.8	287.3
65°	307.9	307.9	284.0	256.9	247.2
67.5°	264.5	264.5	243.9	222.2	214.6
70°	223.3	224.4	209.2	199.5	184.3
72.5°	184.3	189.7	174.5	158.3	149.6
75°	149.6	152.8	144.2	127.9	122.5
77.5°	117.1	122.5	113.8	101.9	97.6
80°	87.8	93.2	87.8	78.0	75.9
82.5°	61.8	68.3	64.0	58.5	57.5
85°	39.0	45.5	41.2	40.1	39.0
87.5°	18.4	21.7	21.7	21.7	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)