

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: P128119

Luminaire Tested: **14ALNG-LD4-23-UNV-L830-CD1-U**

Test Date: 08/28/14



Test Information

Test Method: LM-79-08
Report Number: P128119
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-LD4-23-UNV-L830-CD1-U
Description: METALUX; ARCLINE 1X4
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24769)
Light Source: -
Ballast/Driver: -

Summary

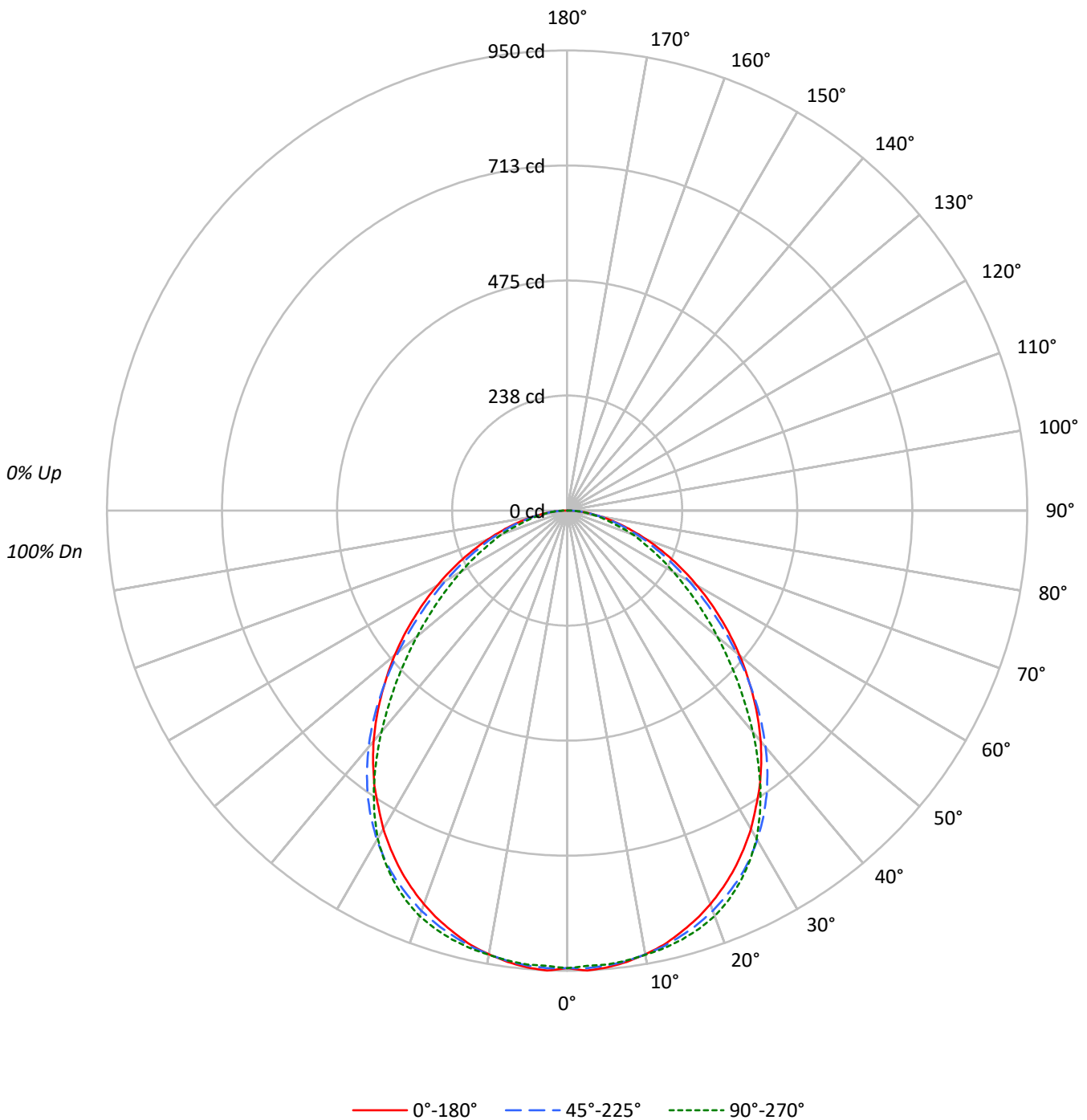
Lumens per Lamp: N/A
Luminaire Lumens: 2272.3 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 25.4
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	33	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°	2832	2832	2832
5°	2849	2837	2831
10°	2832	2832	2835
15°	2801	2822	2846
20°	2759	2805	2842
25°	2702	2775	2797
30°	2628	2718	2708
35°	2539	2627	2545
40°	2432	2496	2334
45°	2304	2321	2109
50°	2167	2122	1889
55°	2017	1921	1689
60°	1858	1730	1517
65°	1693	1563	1358
70°	1526	1433	1265
75°	1360	1293	1092
80°	1196	1179	1029
85°	1059	1090	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	3.9
10°-20°	256.0	11.3
20°-30°	382.9	16.9
30°-40°	438.9	19.3
40°-50°	410.8	18.1
50°-60°	324.1	14.3
60°-70°	218.0	9.6
70°-80°	116.9	5.1
80°-90°	35.3	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°	728.3	32.1
0°-40°	1167.3	51.4
0°-60°	1902.2	83.7
0°-90°	2272.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2272.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	947	938	943	941	941	90
15°	902	898	909	914	917	254
25°	817	818	839	844	846	376
35°	694	701	718	701	696	433
45°	544	552	547	511	497	419
55°	386	389	368	336	323	345
65°	239	238	220	200	191	238
75°	117	119	112	99	94	125
85°	31	35	32	31	31	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	944.7	944.7	944.7	944.7	944.7
2.5°	950.5	940.8	945.6	943.7	940.8
5°	946.6	938.0	942.8	940.8	940.8
7.5°	939.9	931.2	938.0	937.0	937.0
10°	930.3	922.6	930.3	930.3	931.2
12.5°	918.7	912.0	921.6	923.5	925.4
15°	902.4	897.5	909.1	913.9	916.8
17.5°	885.0	881.2	895.6	901.4	905.2
20°	864.8	862.0	879.3	886.0	890.8
22.5°	841.8	840.8	860.0	866.8	870.6
25°	816.7	817.7	838.9	843.7	845.6
27.5°	788.8	791.7	813.9	815.8	815.8
30°	759.0	763.8	785.0	783.1	782.1
32.5°	725.3	734.0	753.2	743.6	740.7
35°	693.6	701.3	717.7	701.3	695.5
37.5°	658.0	666.7	679.2	657.0	646.5
40°	621.5	630.1	637.8	608.9	596.4
42.5°	583.0	591.6	593.6	560.8	545.5
45°	543.5	552.2	547.4	510.8	497.4
47.5°	504.1	510.8	501.2	463.7	449.3
50°	464.6	470.4	455.0	418.5	405.0
52.5°	425.2	429.1	410.8	374.2	362.7
55°	385.8	388.6	367.5	335.7	323.2
57.5°	347.3	348.2	327.1	297.3	286.7
60°	309.8	309.8	288.6	261.7	253.0
62.5°	274.2	273.2	254.0	229.9	222.2
65°	238.6	237.6	220.3	200.1	191.4
67.5°	205.9	204.9	189.5	172.2	166.4
70°	174.1	174.1	163.5	153.9	144.3
72.5°	144.3	146.2	135.6	122.2	116.4
75°	117.4	119.3	111.6	99.1	94.3
77.5°	92.4	94.3	87.5	78.9	76.0
80°	69.3	72.1	68.3	60.6	59.6
82.5°	49.1	51.9	49.1	45.2	45.2
85°	30.8	34.6	31.7	30.8	30.8
87.5°	14.4	16.4	16.4	16.4	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)