

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: P128118

Luminaire Tested: **14ALNG-LD4-23-UNV-L840-CD1-U**

Test Date: 08/28/14



Test Information

Test Method: LM-79-08
Report Number: P128118
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-L840-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24769)
Light Source: -
Ballast/Driver: -

Summary

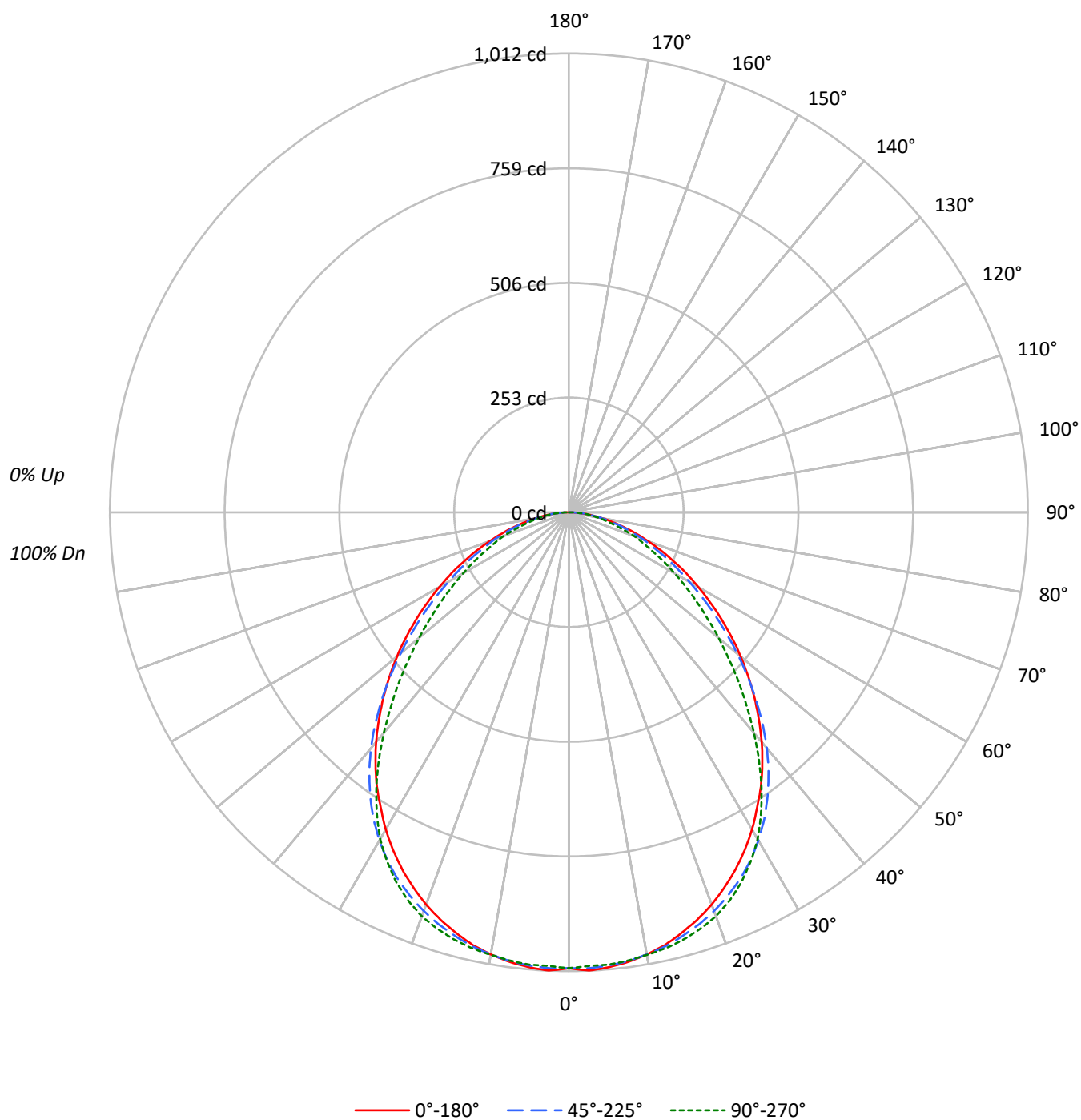
Lumens per Lamp: N/A
Luminaire Lumens: 2418.8 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	110	105	101	98	107	103	99	96		99	96	93		95	92	90		91	89	87
2	100	93	86	81	98	91	85	80		87	82	78		84	80	76		81	78	75
3	92	82	74	68	90	81	73	68		78	72	67		75	70	65		72	68	64
4	85	73	65	59	82	72	64	58		70	63	57		67	61	57		65	60	56
5	78	66	57	51	76	65	57	51		63	56	50		61	55	50		59	54	49
6	72	60	51	45	71	59	51	45		57	50	44		55	49	44		54	48	44
7	67	54	46	40	66	54	46	40		52	45	40		51	44	39		49	43	39
8	63	50	42	36	61	49	41	36		48	41	36		47	40	35		45	40	35
9	59	46	38	33	57	45	38	32		44	37	32		43	37	32		42	36	32
10	55	42	35	30	54	42	35	30		41	34	29		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3015	3015	3015
5°	3032	3020	3014
10°	3014	3014	3018
15°	2981	3004	3029
20°	2937	2986	3025
25°	2876	2954	2978
30°	2797	2893	2882
35°	2702	2796	2710
40°	2589	2657	2485
45°	2453	2471	2245
50°	2307	2259	2011
55°	2146	2045	1799
60°	1977	1842	1615
65°	1802	1664	1446
70°	1624	1526	1346
75°	1447	1376	1163
80°	1272	1255	1096
85°	1128	1163	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.2	3.9
10°-20°	272.5	11.3
20°-30°	407.6	16.9
30°-40°	467.2	19.3
40°-50°	437.3	18.1
50°-60°	345.0	14.3
60°-70°	232.1	9.6
70°-80°	124.4	5.1
80°-90°	37.5	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°	775.3	32.1
0°-40°	1242.5	51.4
0°-60°	2024.7	83.7
0°-90°	2418.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1006	1006	1006	1006	1006	
5°	1008	998	1004	1002	1002	96
15°	960	955	968	973	976	271
25°	869	870	893	898	900	400
35°	738	746	764	746	740	461
45°	579	588	583	544	529	446
55°	411	414	391	357	344	368
65°	254	253	234	213	204	253
75°	125	127	119	106	100	133
85°	33	37	34	33	33	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.6	1005.6	1005.6	1005.6	1005.6
2.5°	1011.7	1001.5	1006.6	1004.5	1001.5
5°	1007.6	998.4	1003.5	1001.5	1001.5
7.5°	1000.4	991.2	998.4	997.4	997.4
10°	990.2	982.0	990.2	990.2	991.2
12.5°	977.9	970.8	981.0	983.0	985.1
15°	960.5	955.4	967.7	972.8	975.9
17.5°	942.1	938.0	953.3	959.5	963.6
20°	920.6	917.5	935.9	943.1	948.2
22.5°	896.0	895.0	915.5	922.6	926.7
25°	869.4	870.4	892.9	898.0	900.1
27.5°	839.7	842.8	866.3	868.4	868.4
30°	807.9	813.1	835.6	833.5	832.5
32.5°	772.1	781.3	801.8	791.6	788.5
35°	738.3	746.5	763.9	746.5	740.4
37.5°	700.4	709.6	722.9	699.4	688.1
40°	661.5	670.7	678.9	648.2	634.9
42.5°	620.5	629.8	631.8	597.0	580.6
45°	578.6	587.8	582.7	543.7	529.4
47.5°	536.6	543.7	533.5	493.6	478.2
50°	494.6	500.7	484.4	445.4	431.1
52.5°	452.6	456.7	437.2	398.3	386.0
55°	410.6	413.7	391.2	357.4	344.1
57.5°	369.7	370.7	348.2	316.4	305.2
60°	329.7	329.7	307.2	278.5	269.3
62.5°	291.8	290.8	270.3	244.7	236.5
65°	254.0	252.9	234.5	213.0	203.8
67.5°	219.1	218.1	201.7	183.3	177.2
70°	185.3	185.3	174.1	163.8	153.6
72.5°	153.6	155.6	144.4	130.0	123.9
75°	124.9	127.0	118.8	105.5	100.4
77.5°	98.3	100.4	93.2	84.0	80.9
80°	73.7	76.8	72.7	64.5	63.5
82.5°	52.2	55.3	52.2	48.1	48.1
85°	32.8	36.9	33.8	32.8	32.8
87.5°	15.4	17.4	17.4	17.4	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)