

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: P128121

Luminaire Tested: **14ALNG-LD4-26-UNV-L840-CD1-U**

Test Date: 08/28/14



Test Information

Test Method: LM-79-08
Report Number: P128121
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-L840-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24768)
Light Source: -
Ballast/Driver: -

Summary

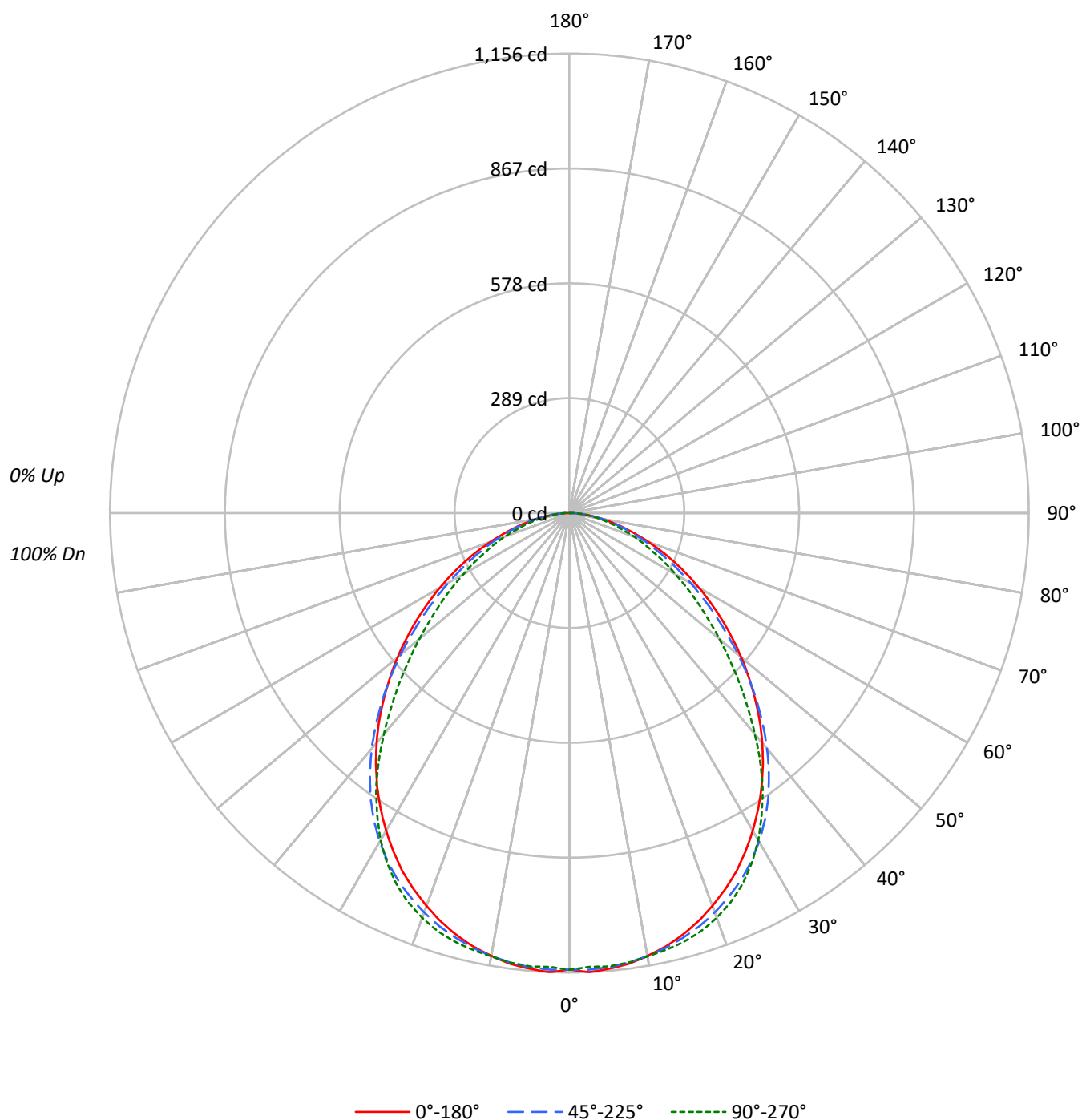
Lumens per Lamp: N/A
Luminaire Lumens: 2764.0 lumens
Efficiency: N/A
Efficacy: 93.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.29
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	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	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°	3444	3444	3444
5°	3464	3452	3445
10°	3445	3445	3448
15°	3410	3433	3464
20°	3355	3411	3457
25°	3289	3374	3408
30°	3194	3304	3290
35°	3085	3193	3103
40°	2954	3030	2841
45°	2800	2822	2566
50°	2632	2589	2297
55°	2451	2344	2060
60°	2259	2112	1848
65°	2063	1903	1656
70°	1849	1732	1526
75°	1637	1578	1340
80°	1431	1431	1238
85°	1269	1338	1269



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	3.9
10°-20°	311.4	11.3
20°-30°	465.8	16.9
30°-40°	533.9	19.3
40°-50°	499.3	18.1
50°-60°	394.1	14.3
60°-70°	265.3	9.6
70°-80°	142.3	5.1
80°-90°	43.2	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°	886.0	32.1
0°-40°	1419.9	51.4
0°-60°	2313.2	83.7
0°-90°	2764.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2764.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1149	1149	1149	1149	1149	
5°	1151	1140	1147	1144	1145	109
15°	1099	1092	1106	1111	1116	310
25°	994	994	1020	1027	1030	457
35°	843	852	872	856	848	526
45°	660	670	666	623	605	509
55°	469	471	448	406	394	419
65°	291	291	268	243	234	289
75°	141	144	136	121	116	151
85°	37	43	39	38	37	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1148.9	1148.9	1148.9	1148.9	1148.9
2.5°	1156.1	1143.8	1150.0	1147.9	1142.8
5°	1151.0	1139.7	1146.9	1143.8	1144.8
7.5°	1143.8	1132.5	1140.7	1138.7	1140.7
10°	1131.5	1121.3	1131.5	1130.5	1132.5
12.5°	1117.2	1108.0	1120.3	1122.3	1125.4
15°	1098.8	1091.6	1105.9	1111.0	1116.2
17.5°	1077.2	1071.1	1089.5	1097.7	1102.8
20°	1051.6	1048.6	1069.1	1077.2	1083.4
22.5°	1024.0	1024.0	1045.5	1053.7	1059.8
25°	994.3	994.3	1019.9	1027.1	1030.1
27.5°	959.5	963.6	989.2	994.3	993.3
30°	922.6	928.8	954.4	953.3	950.3
32.5°	883.7	891.9	915.5	907.3	900.1
35°	842.8	852.0	872.4	856.1	847.9
37.5°	799.7	810.0	824.3	799.7	788.5
40°	754.7	764.9	774.1	740.4	726.0
42.5°	708.6	717.8	719.9	679.9	664.6
45°	660.5	669.7	665.6	622.6	605.2
47.5°	612.4	620.5	610.3	565.2	546.8
50°	564.2	570.4	555.0	508.9	492.5
52.5°	516.1	521.2	498.7	456.7	441.3
55°	469.0	471.0	448.5	406.5	394.2
57.5°	421.9	422.9	398.3	361.5	350.2
60°	376.8	376.8	352.3	318.5	308.2
62.5°	332.8	332.8	308.2	278.5	271.4
65°	290.8	290.8	268.3	242.7	233.5
67.5°	249.9	249.9	230.4	209.9	202.8
70°	210.9	212.0	197.6	188.4	174.1
72.5°	174.1	179.2	164.9	149.5	141.3
75°	141.3	144.4	136.2	120.8	115.7
77.5°	110.6	115.7	107.5	96.3	92.2
80°	82.9	88.1	82.9	73.7	71.7
82.5°	58.4	64.5	60.4	55.3	54.3
85°	36.9	43.0	38.9	37.9	36.9
87.5°	17.4	20.5	20.5	20.5	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)