

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: P24768

Luminaire Tested: **14ALNG-LD4-25-UNV-L835-CD1**

Test Date: 08/28/14



Test Information

Test Method: LM-79-08
Report Number: P24768
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P24768)
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-LD4-25-UNV-L835-CD1
Description: METALUX; ARCLINE 1X4
Light Source: (84) 3500K NICHIA LEDS
(2) 2UT217042T8352A
Ballast/Driver: (1) PHILIPS ADVANCED ELECTRONIC DRIVERS
LEDINTA2000C24DO

Summary

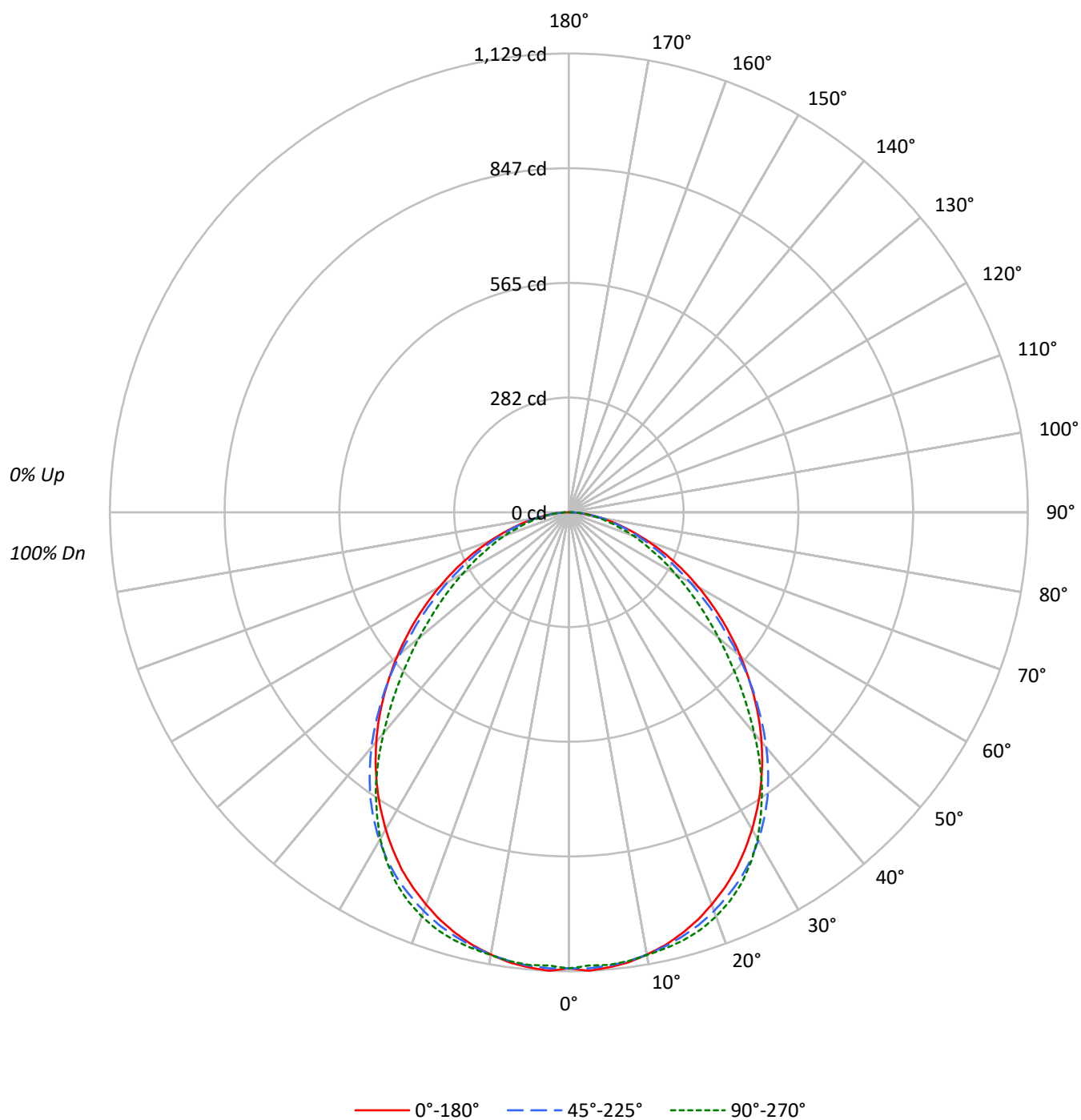
Lumens per Lamp: N/A
Luminaire Lumens: 2699.2 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.29
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 29.5
Input Voltage (V): 120.12
Input Current (Ain): 0.24668
Voltage Rise (V): NR
Power Factor: 99817
Total Harmonic Distortion (THDi): 8.50%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
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°	3364	3364	3364
5°	3383	3371	3365
10°	3364	3364	3367
15°	3330	3352	3383
20°	3277	3331	3376
25°	3212	3295	3328
30°	3119	3226	3213
35°	3012	3118	3030
40°	2884	2959	2775
45°	2735	2756	2506
50°	2570	2528	2243
55°	2394	2289	2012
60°	2207	2063	1805
65°	2015	1859	1617
70°	1806	1692	1490
75°	1599	1541	1309
80°	1398	1398	1209
85°	1238	1307	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	3.9
10°-20°	304.1	11.3
20°-30°	454.9	16.9
30°-40°	521.4	19.3
40°-50°	487.6	18.1
50°-60°	384.9	14.3
60°-70°	259.1	9.6
70°-80°	138.9	5.1
80°-90°	42.2	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°	865.2	32.1
0°-40°	1386.6	51.4
0°-60°	2259.0	83.7
0°-90°	2699.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2699.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1124	1113	1120	1117	1118	107
15°	1073	1066	1080	1085	1090	302
25°	971	971	996	1003	1006	446
35°	823	832	852	836	828	514
45°	645	654	650	608	591	497
55°	458	460	438	397	385	410
65°	284	284	262	237	228	282
75°	138	141	133	118	113	147
85°	36	42	38	37	36	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1122	1122	1122	1122	1122
2.5°	1129	1117	1123	1121	1116
5°	1124	1113	1120	1117	1118
7.5°	1117	1106	1114	1112	1114
10°	1105	1095	1105	1104	1106
12.5°	1091	1082	1094	1096	1099
15°	1073	1066	1080	1085	1090
17.5°	1052	1046	1064	1072	1077
20°	1027	1024	1044	1052	1058
22.5°	1000	1000	1021	1029	1035
25°	971	971	996	1003	1006
27.5°	937	941	966	971	970
30°	901	907	932	931	928
32.5°	863	871	894	886	879
35°	823	832	852	836	828
37.5°	781	791	805	781	770
40°	737	747	756	723	709
42.5°	692	701	703	664	649
45°	645	654	650	608	591
47.5°	598	606	596	552	534
50°	551	557	542	497	481
52.5°	504	509	487	446	431
55°	458	460	438	397	385
57.5°	412	413	389	353	342
60°	368	368	344	311	301
62.5°	325	325	301	272	265
65°	284	284	262	237	228
67.5°	244	244	225	205	198
70°	206	207	193	184	170
72.5°	170	175	161	146	138
75°	138	141	133	118	113
77.5°	108	113	105	94	90
80°	81	86	81	72	70
82.5°	57	63	59	54	53
85°	36	42	38	37	36
87.5°	17	20	20	20	20
90°	0	0	0	0	0

(END OF REPORT)