

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: P24769

Luminaire Tested: **14ALNG-LD4-20-UNV-L835-CD1**

Test Date: 08/28/14



Test Information

Test Method: LM-79-08
Report Number: P24769
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P24769)
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-LD4-20-UNV-L835-CD1
Description: METALUX; ARCLINE 1X4
Light Source: (84) 3500K NICHIA LEDS
(2) 2UT217042T8352A
Ballast/Driver: (1) PHILIPS ADVANCED ELECTRONIC DRIVERS
LEDINTA2000C24DO

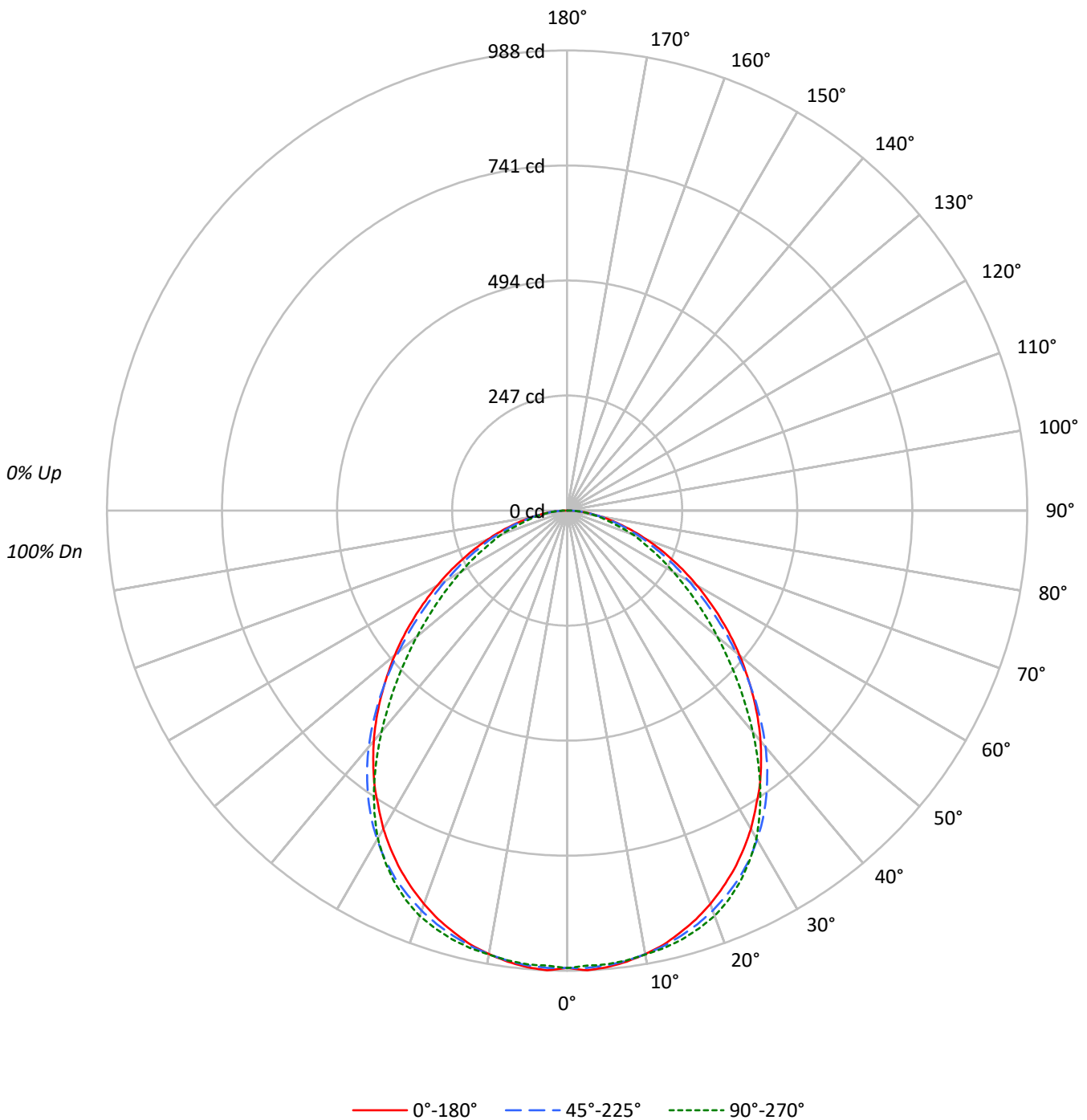
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2362.1 lumens
Efficiency: N/A
Efficacy: 93.0 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): 119.98
Input Current (A_{in}): 0.21276
Voltage Rise (V): NR
Power Factor: 99731
Total Harmonic Distortion (THDi): 8.85%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P24769
CATALOG NUMBER: 14ALNG-LD4-20-UNV-L835-CD1

Luminous Intensity Polar Plot





TEST NUMBER: P24769

CATALOG NUMBER: 14ALNG-LD4-20-UNV-L835-CD1

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°	2944	2944	2944
5°	2961	2949	2943
10°	2944	2944	2947
15°	2911	2933	2958
20°	2868	2916	2954
25°	2808	2885	2908
30°	2731	2825	2814
35°	2639	2730	2646
40°	2528	2595	2426
45°	2396	2413	2192
50°	2253	2206	1964
55°	2096	1997	1756
60°	1931	1799	1577
65°	1759	1625	1412
70°	1587	1490	1315
75°	1413	1344	1135
80°	1243	1226	1070
85°	1101	1135	1101



TEST NUMBER: P24769

CATALOG NUMBER: 14ALNG-LD4-20-UNV-L835-CD1

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.9
10°-20°	266.1	11.3
20°-30°	398.0	16.9
30°-40°	456.3	19.3
40°-50°	427.0	18.1
50°-60°	336.9	14.3
60°-70°	226.6	9.6
70°-80°	121.5	5.1
80°-90°	36.7	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°	757.1	32.1
0°-40°	1213.4	51.4
0°-60°	1977.3	83.7
0°-90°	2362.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2362.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	982	982	982	982	982	
5°	984	975	980	978	978	93
15°	938	933	945	950	953	264
25°	849	850	872	877	879	391
35°	721	729	746	729	723	450
45°	565	574	569	531	517	436
55°	401	404	382	349	336	359
65°	248	247	229	208	199	247
75°	122	124	116	103	98	130
85°	32	36	33	32	32	36
90°	0	0	0	0	0	



TEST NUMBER: P24769

CATALOG NUMBER: 14ALNG-LD4-20-UNV-L835-CD1

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	982	982	982	982	982
2.5°	988	978	983	981	978
5°	984	975	980	978	978
7.5°	977	968	975	974	974
10°	967	959	967	967	968
12.5°	955	948	958	960	962
15°	938	933	945	950	953
17.5°	920	916	931	937	941
20°	899	896	914	921	926
22.5°	875	874	894	901	905
25°	849	850	872	877	879
27.5°	820	823	846	848	848
30°	789	794	816	814	813
32.5°	754	763	783	773	770
35°	721	729	746	729	723
37.5°	684	693	706	683	672
40°	646	655	663	633	620
42.5°	606	615	617	583	567
45°	565	574	569	531	517
47.5°	524	531	521	482	467
50°	483	489	473	435	421
52.5°	442	446	427	389	377
55°	401	404	382	349	336
57.5°	361	362	340	309	298
60°	322	322	300	272	263
62.5°	285	284	264	239	231
65°	248	247	229	208	199
67.5°	214	213	197	179	173
70°	181	181	170	160	150
72.5°	150	152	141	127	121
75°	122	124	116	103	98
77.5°	96	98	91	82	79
80°	72	75	71	63	62
82.5°	51	54	51	47	47
85°	32	36	33	32	32
87.5°	15	17	17	17	17
90°	0	0	0	0	0

(END OF REPORT)