

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: P24766

Luminaire Tested: **14ALNG-LD4-35-UNV-L835-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P24766
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P24766)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-35-UNV-L835-CD1
Description: METALUX; ARCLINE 1X4
Light Source: (84) 3500K NICHIA LEDS
(2) 2UT217042T8352A
Ballast/Driver: (1) PHILIPS ADVANCED ELECTRONIC DRIVERS
LEDINTA2000C24DO

Summary

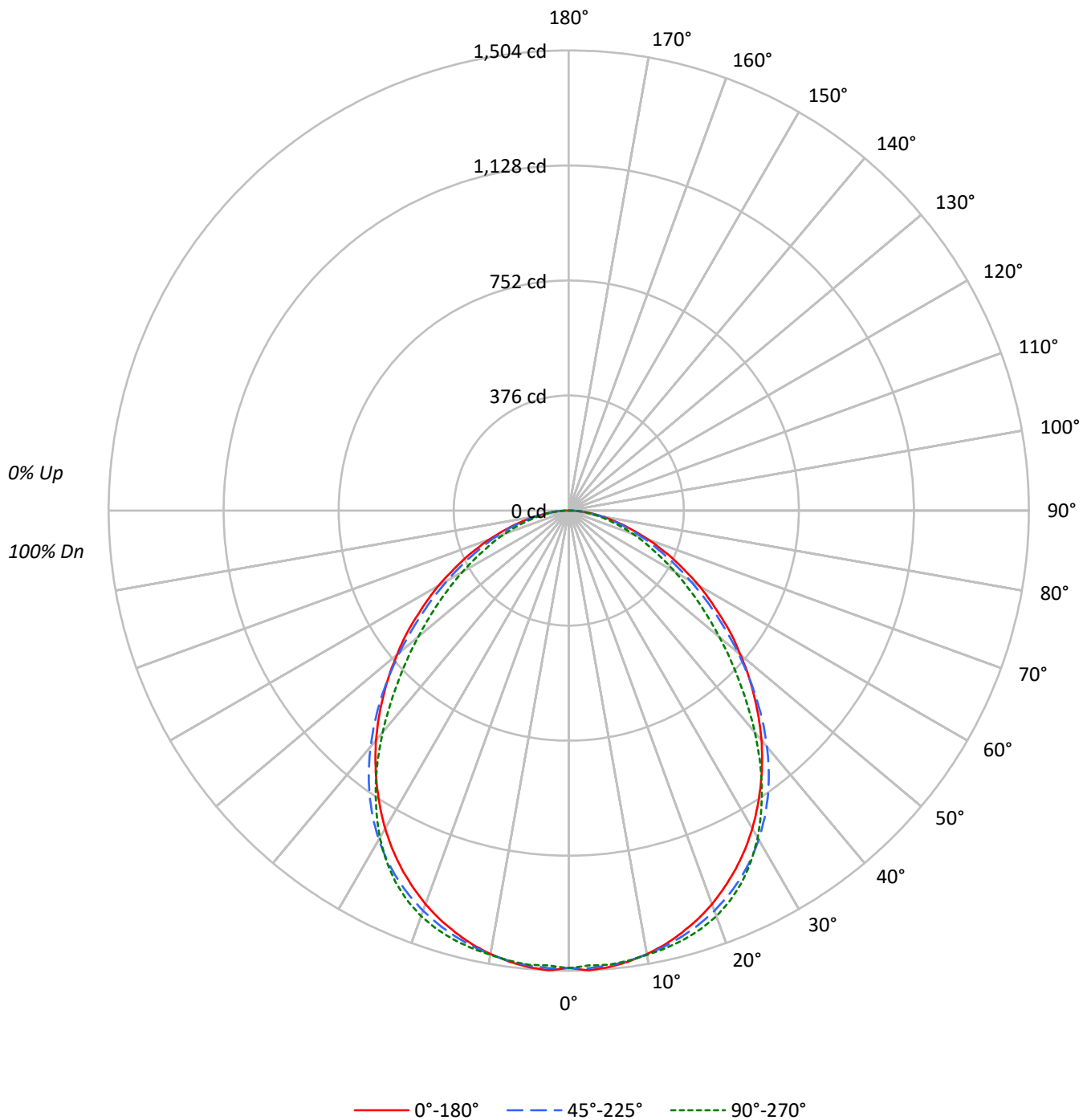
Lumens per Lamp: N/A
Luminaire Lumens: 3598.4 lumens
Efficiency: N/A
Efficacy: 85.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 42.3
Input Voltage (V): 120.05
Input Current (Ain): 0.35350
Voltage Rise (V): NR
Power Factor: 99958
Total Harmonic Distortion (THDi): 7.02%
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: 24 HR
Ambient Temperature (°C): NR
Test Distance: 25 FT

TEST NUMBER: P24766

CATALOG NUMBER: 14ALNG-LD4-35-UNV-L835-CD1

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	32	57	45	38	32		44	37	32		43	37	32		42	36	32
10	55	42	35	30	54	42	34	30		41	34	29		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4482	4482	4482
5°	4508	4493	4484
10°	4481	4484	4487
15°	4432	4470	4507
20°	4368	4441	4502
25°	4274	4390	4433
30°	4154	4300	4275
35°	4004	4154	4026
40°	3835	3945	3702
45°	3634	3676	3341
50°	3414	3368	2994
55°	3183	3047	2681
60°	2950	2746	2404
65°	2689	2476	2149
70°	2419	2262	1964
75°	2155	2039	1749
80°	1899	1882	1606
85°	1686	1754	1686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.6	3.9
10°-20°	405.2	11.3
20°-30°	606.1	16.8
30°-40°	694.3	19.3
40°-50°	650.5	18.1
50°-60°	513.7	14.3
60°-70°	345.2	9.6
70°-80°	185.5	5.2
80°-90°	56.4	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°	1152.8	32.0
0°-40°	1847.2	51.3
0°-60°	3011.3	83.7
0°-90°	3598.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3598.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1495	1495	1495	1495	1495	
5°	1498	1484	1493	1489	1490	142
15°	1428	1420	1440	1447	1452	403
25°	1292	1293	1327	1337	1340	594
35°	1094	1107	1135	1112	1100	684
45°	857	873	867	810	788	661
55°	609	614	583	532	513	546
65°	379	376	349	316	303	376
75°	186	188	176	159	151	199
85°	49	56	51	49	49	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1495	1495	1495	1495	1495
2.5°	1504	1489	1497	1494	1488
5°	1498	1484	1493	1489	1490
7.5°	1487	1473	1485	1483	1484
10°	1472	1459	1473	1472	1474
12.5°	1453	1442	1458	1461	1465
15°	1428	1420	1440	1447	1452
17.5°	1401	1394	1418	1428	1434
20°	1369	1365	1392	1402	1411
22.5°	1332	1331	1362	1372	1379
25°	1292	1293	1327	1337	1340
27.5°	1248	1253	1287	1293	1291
30°	1200	1208	1242	1241	1235
32.5°	1148	1160	1191	1180	1170
35°	1094	1107	1135	1112	1100
37.5°	1038	1054	1074	1040	1025
40°	980	996	1008	965	946
42.5°	919	935	939	890	866
45°	857	873	867	810	788
47.5°	796	810	794	736	714
50°	732	744	722	666	642
52.5°	674	678	650	597	575
55°	609	614	583	532	513
57.5°	549	551	520	472	455
60°	492	490	458	417	401
62.5°	432	432	402	365	350
65°	379	376	349	316	303
67.5°	326	324	300	273	264
70°	276	276	258	245	224
72.5°	229	233	214	194	185
75°	186	188	176	159	151
77.5°	146	150	140	126	120
80°	110	116	109	97	93
82.5°	78	84	78	72	70
85°	49	56	51	49	49
87.5°	24	27	26	26	26
90°	0	0	0	0	0

(END OF REPORT)