

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: P128130

Luminaire Tested: **14ALNG-LD4-40-UNV-L840-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128130
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-40-UNV-L840-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24765)
Light Source: -
Ballast/Driver: -

Summary

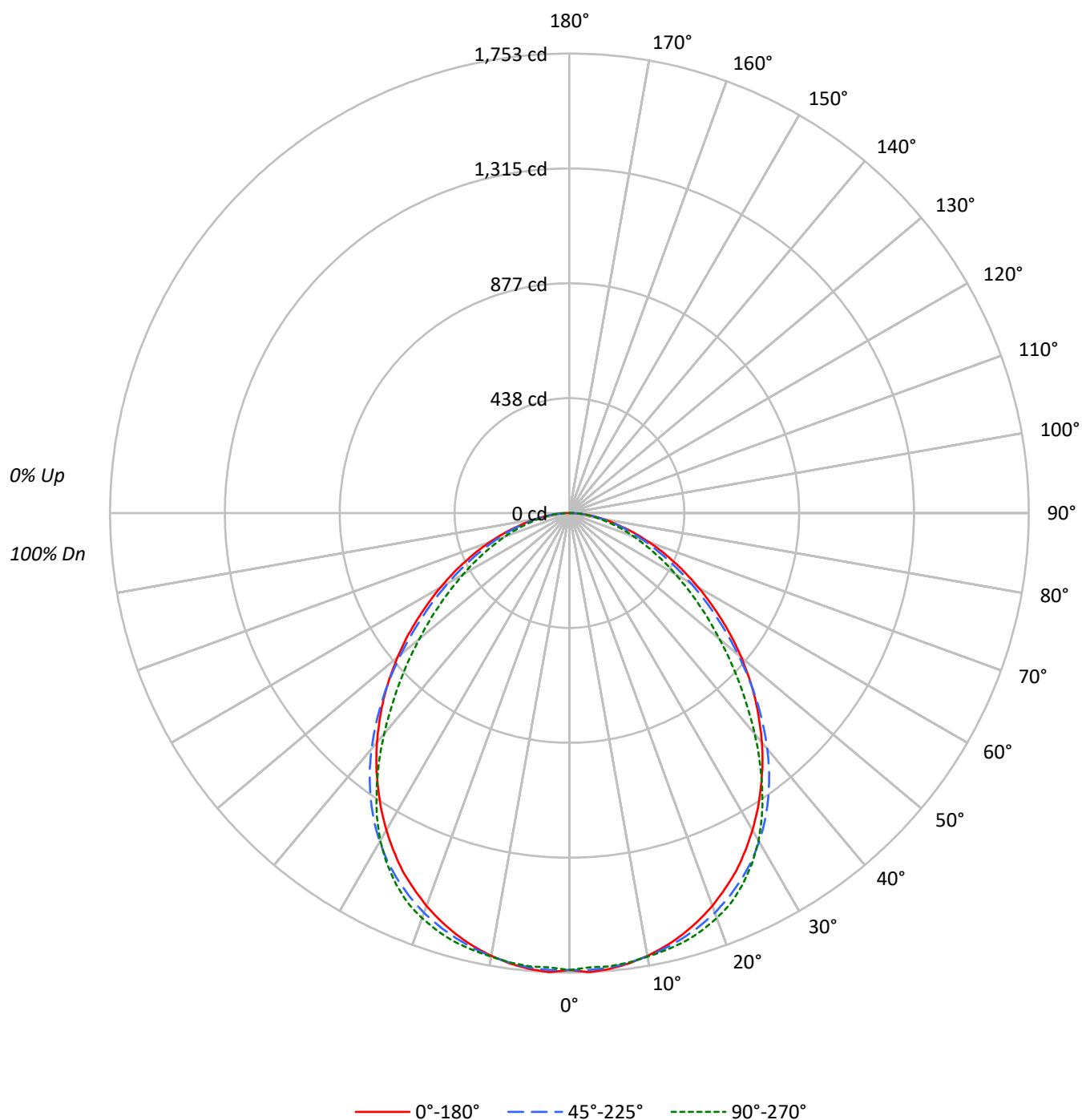
Lumens per Lamp: N/A
Luminaire Lumens: 4192.2 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	110	105	101	98	107	103	99	96		99	96	93			95	92	90			91
2	100	93	86	81	98	91	85	80		87	82	78			84	80	76			81
3	92	82	74	68	90	81	73	68		78	72	67			75	70	65			72
4	85	73	65	59	82	72	64	58		70	63	57			67	61	57			65
5	78	66	57	51	76	65	57	51		63	56	50			61	55	50			59
6	72	60	51	45	71	59	51	45		57	50	44			55	49	44			54
7	67	54	46	40	66	54	46	40		52	45	40			51	44	39			49
8	63	50	42	36	61	49	41	36		48	41	36			47	40	35			45
9	59	46	38	32	57	45	38	32		44	37	32			43	37	32			42
10	55	42	35	30	54	42	35	30		41	34	29			40	34	29			39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5225	5225	5225
5°	5254	5239	5224
10°	5222	5228	5231
15°	5168	5209	5257
20°	5087	5178	5247
25°	4983	5115	5172
30°	4835	5012	4995
35°	4662	4842	4692
40°	4473	4597	4304
45°	4250	4281	3886
50°	3993	3916	3482
55°	3704	3549	3126
60°	3414	3199	2800
65°	3109	2884	2521
70°	2818	2621	2289
75°	2490	2395	2053
80°	2210	2175	1910
85°	1971	2043	1971



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	3.9
10°-20°	472.4	11.3
20°-30°	706.6	16.9
30°-40°	809.1	19.3
40°-50°	757.7	18.1
50°-60°	598.3	14.3
60°-70°	401.8	9.6
70°-80°	215.8	5.1
80°-90°	65.6	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°	1344.0	32.1
0°-40°	2153.1	51.4
0°-60°	3509.0	83.7
0°-90°	4192.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4192.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1743	1743	1743	1743	1743	
5°	1746	1730	1741	1736	1736	166
15°	1665	1656	1678	1686	1694	469
25°	1506	1509	1546	1558	1564	692
35°	1274	1290	1323	1293	1282	796
45°	1002	1016	1010	946	916	772
55°	709	715	679	620	598	635
65°	438	439	406	369	355	437
75°	215	218	207	184	177	231
85°	57	64	59	57	57	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1742.8	1742.8	1742.8	1742.8	1742.8
2.5°	1753.1	1735.7	1744.9	1740.8	1734.7
5°	1745.9	1729.5	1740.8	1735.7	1735.7
7.5°	1733.6	1718.3	1730.6	1728.5	1729.5
10°	1715.2	1701.9	1717.2	1716.2	1718.3
12.5°	1692.7	1680.4	1699.8	1701.9	1707.0
15°	1665.0	1655.8	1678.3	1686.5	1693.7
17.5°	1632.3	1626.1	1652.7	1665.0	1672.2
20°	1594.4	1591.3	1623.0	1635.3	1644.5
22.5°	1551.4	1552.4	1587.2	1599.5	1610.8
25°	1506.3	1509.4	1546.2	1558.5	1563.6
27.5°	1453.1	1461.2	1501.2	1505.3	1508.4
30°	1396.7	1409.0	1447.9	1443.8	1442.8
32.5°	1337.3	1352.7	1389.6	1373.2	1368.1
35°	1273.9	1290.2	1323.0	1293.3	1282.0
37.5°	1210.4	1226.8	1252.4	1212.4	1193.0
40°	1142.8	1160.2	1174.5	1124.4	1099.8
42.5°	1072.1	1089.5	1093.6	1035.3	1006.6
45°	1002.5	1015.8	1009.7	946.2	916.5
47.5°	929.8	942.1	924.7	857.1	831.5
50°	856.1	866.3	839.7	774.1	746.5
52.5°	783.4	790.5	757.8	695.3	671.7
55°	708.6	714.8	678.9	620.5	598.0
57.5°	638.0	642.0	606.2	549.9	530.4
60°	569.3	571.4	533.5	483.3	466.9
62.5°	502.8	502.8	469.0	423.9	411.6
65°	438.3	439.3	406.5	368.6	355.3
67.5°	379.9	377.9	349.2	317.4	306.2
70°	321.5	320.5	299.0	278.5	261.1
72.5°	266.2	270.3	250.9	226.3	217.1
75°	215.0	218.1	206.8	184.3	177.2
77.5°	170.0	175.1	162.8	146.4	140.3
80°	128.0	134.1	126.0	112.6	110.6
82.5°	91.1	97.3	91.1	84.0	82.9
85°	57.3	63.5	59.4	57.3	57.3
87.5°	26.6	31.7	30.7	30.7	30.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)