

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: P128131

Luminaire Tested: **14ALNG-LD4-40-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128131
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-L830-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24765)
Light Source: -
Ballast/Driver: -

Summary

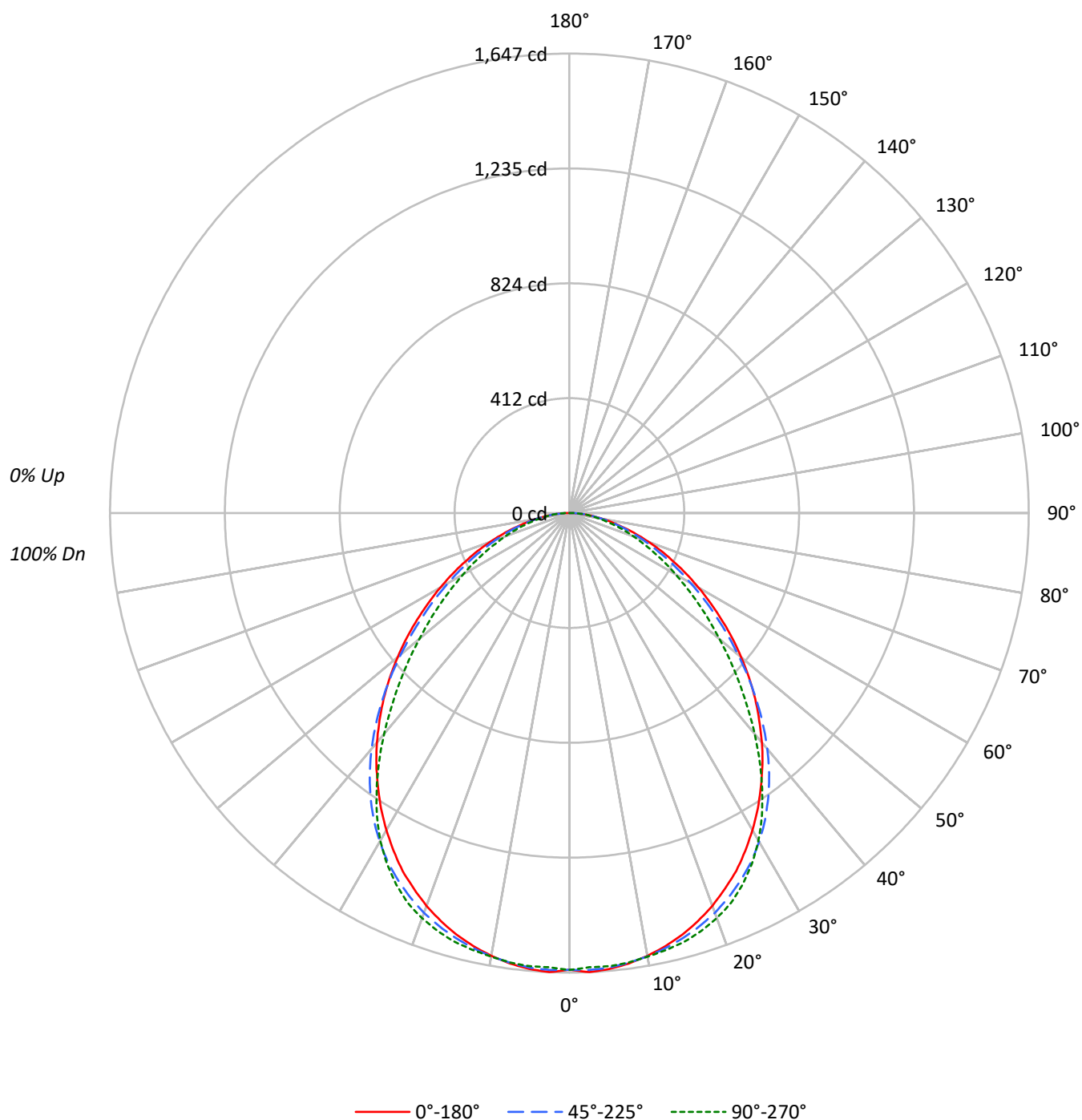
Lumens per Lamp: N/A
Luminaire Lumens: 3938.4 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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	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	35	30		41	34	29		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4909	4909	4909
5°	4936	4922	4907
10°	4906	4911	4914
15°	4855	4894	4938
20°	4779	4865	4929
25°	4681	4805	4859
30°	4543	4709	4693
35°	4380	4549	4408
40°	4202	4318	4044
45°	3993	4022	3651
50°	3751	3679	3271
55°	3480	3334	2937
60°	3207	3005	2630
65°	2921	2709	2368
70°	2648	2462	2150
75°	2340	2251	1928
80°	2075	2042	1794
85°	1854	1919	1854



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.0	3.9
10°-20°	443.8	11.3
20°-30°	663.8	16.9
30°-40°	760.1	19.3
40°-50°	711.8	18.1
50°-60°	562.1	14.3
60°-70°	377.4	9.6
70°-80°	202.8	5.1
80°-90°	61.7	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°	1262.6	32.1
0°-40°	2022.7	51.4
0°-60°	3296.5	83.7
0°-90°	3938.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3938.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1640	1625	1635	1631	1631	156
15°	1564	1556	1577	1584	1591	441
25°	1415	1418	1453	1464	1469	650
35°	1197	1212	1243	1215	1204	748
45°	942	954	948	889	861	725
55°	666	672	638	583	562	597
65°	412	413	382	346	334	410
75°	202	205	194	173	166	217
85°	54	60	56	54	54	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.3	1637.3	1637.3	1637.3	1637.3
2.5°	1646.9	1630.6	1639.2	1635.4	1629.6
5°	1640.2	1624.8	1635.4	1630.6	1630.6
7.5°	1628.7	1614.2	1625.8	1623.9	1624.8
10°	1611.4	1598.8	1613.3	1612.3	1614.2
12.5°	1590.2	1578.6	1596.9	1598.8	1603.7
15°	1564.2	1555.6	1576.7	1584.4	1591.1
17.5°	1533.4	1527.7	1552.7	1564.2	1570.9
20°	1497.8	1494.9	1524.8	1536.3	1545.0
22.5°	1457.4	1458.4	1491.1	1502.6	1513.2
25°	1415.1	1418.0	1452.6	1464.2	1469.0
27.5°	1365.1	1372.8	1410.3	1414.1	1417.0
30°	1312.2	1323.7	1360.3	1356.4	1355.5
32.5°	1256.4	1270.8	1305.4	1290.0	1285.2
35°	1196.7	1212.1	1242.9	1215.0	1204.4
37.5°	1137.1	1152.5	1176.5	1139.0	1120.7
40°	1073.6	1089.9	1103.4	1056.3	1033.2
42.5°	1007.2	1023.6	1027.4	972.6	945.6
45°	941.8	954.3	948.5	888.9	861.0
47.5°	873.5	885.0	868.7	805.2	781.1
50°	804.2	813.9	788.8	727.3	701.3
52.5°	735.9	742.7	711.9	653.2	631.1
55°	665.7	671.5	637.8	583.0	561.8
57.5°	599.3	603.2	569.5	516.6	498.3
60°	534.9	536.8	501.2	454.1	438.7
62.5°	472.3	472.3	440.6	398.3	386.7
65°	411.7	412.7	381.9	346.3	333.8
67.5°	356.9	355.0	328.0	298.2	287.6
70°	302.1	301.1	280.9	261.7	245.3
72.5°	250.1	254.0	235.7	212.6	203.9
75°	202.0	204.9	194.3	173.2	166.4
77.5°	159.7	164.5	153.0	137.6	131.8
80°	120.2	126.0	118.3	105.8	103.9
82.5°	85.6	91.4	85.6	78.9	77.9
85°	53.9	59.6	55.8	53.9	53.9
87.5°	25.0	29.8	28.9	28.9	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)