

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: P166484

Luminaire Tested: **22ALNG-LD4-44-UNV-L840-CD1**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P166484
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22ALNG-LD4-44-UNV-L840-CD1
Description: METALUX ARCLINE 2X2 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25824)
Light Source: -
Ballast/Driver: -

Summary

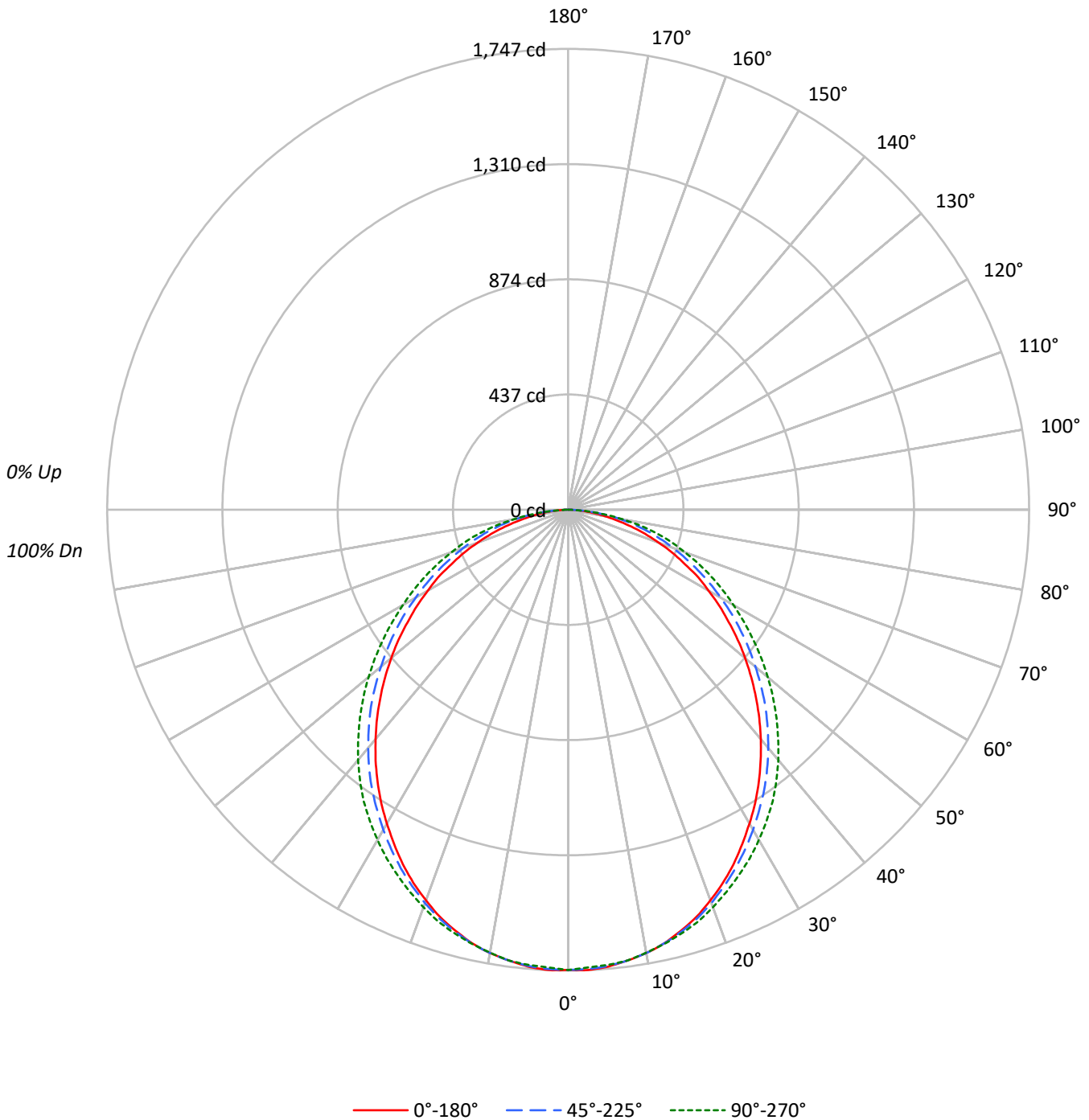
Lumens per Lamp: N/A
Luminaire Lumens: 4609.4 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.32
Luminous Opening: Rectangular (W 1.92' x L: 1.92' x H: 0')
CIE Type: Direct

Input Watts (W): 46.4
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	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	109	104	100	96	106	102	98	94	98	94	91		94	91	89		90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	76		82	78	74		79	75	72	70
3	90	80	72	65	88	78	71	65	75	69	64		73	67	62		70	65	61	59
4	83	71	62	56	81	70	61	55	67	60	54		65	59	54		63	57	53	51
5	76	63	55	48	74	62	54	48	60	53	47		58	52	47		56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	48	39	33	59	47	39	33	45	38	33		44	38	33		43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5113	5113	5113
5°	5114	5107	5095
10°	5079	5079	5073
15°	5012	5025	5044
20°	4915	4947	5000
25°	4796	4850	4946
30°	4648	4740	4890
35°	4506	4634	4830
40°	4342	4511	4738
45°	4171	4381	4625
50°	3991	4222	4501
55°	3795	4074	4366
60°	3598	3908	4241
65°	3379	3760	4140
70°	3128	3615	4013
75°	2795	3488	3941
80°	2386	3312	3525
85°	1916	2696	2626



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.6
10°-20°	467.2	10.1
20°-30°	692.3	15.0
30°-40°	812.7	17.6
40°-50°	816.1	17.7
50°-60°	713.4	15.5
60°-70°	536.3	11.6
70°-80°	319.1	6.9
80°-90°	87.5	1.9
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°	1324.3	28.7
0°-40°	2136.9	46.4
0°-60°	3666.4	79.5
0°-90°	4609.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4609.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1745	1745	1745	1745	1745	
5°	1739	1739	1736	1734	1732	165
15°	1652	1654	1656	1663	1663	466
25°	1483	1486	1500	1521	1530	682
35°	1260	1268	1296	1334	1350	787
45°	1006	1019	1057	1097	1116	777
55°	743	758	798	836	855	666
65°	487	502	542	576	597	485
75°	247	268	308	336	348	263
85°	57	70	80	80	78	68
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.0	1745.0	1745.0	1745.0	1745.0
2.5°	1747.1	1745.0	1742.9	1738.7	1736.5
5°	1738.7	1738.7	1736.5	1734.4	1732.3
7.5°	1723.9	1726.0	1723.9	1723.9	1723.9
10°	1707.0	1709.1	1707.0	1707.0	1704.9
12.5°	1683.9	1683.9	1683.9	1686.0	1686.0
15°	1652.2	1654.3	1656.4	1662.7	1662.7
17.5°	1618.4	1618.4	1624.8	1635.3	1637.4
20°	1576.2	1578.3	1586.7	1599.4	1603.7
22.5°	1531.9	1534.0	1544.6	1561.4	1567.8
25°	1483.4	1485.5	1500.2	1521.3	1529.8
27.5°	1428.5	1432.7	1451.8	1479.1	1489.7
30°	1373.7	1380.0	1401.1	1432.7	1445.3
32.5°	1318.8	1325.1	1348.3	1384.2	1399.0
35°	1259.7	1268.1	1295.6	1333.5	1350.4
37.5°	1198.5	1206.9	1238.6	1278.6	1295.6
40°	1135.3	1145.8	1179.5	1219.6	1238.6
42.5°	1071.9	1082.5	1118.3	1158.4	1177.4
45°	1006.5	1019.1	1057.2	1097.2	1116.2
47.5°	941.1	953.7	991.8	1031.8	1052.9
50°	875.6	888.3	926.3	966.4	987.5
52.5°	810.2	823.0	863.0	901.0	922.1
55°	742.8	757.5	797.6	835.6	854.6
57.5°	679.5	692.1	734.3	770.2	789.1
60°	614.0	628.8	666.8	702.6	723.7
62.5°	557.0	563.4	605.6	639.3	660.4
65°	487.4	502.1	542.3	576.0	597.2
67.5°	428.3	441.0	481.1	517.0	533.9
70°	365.1	381.9	422.0	453.7	468.4
72.5°	306.0	322.8	365.1	396.7	411.4
75°	246.9	267.9	308.1	335.5	348.1
77.5°	192.0	215.3	251.1	276.5	282.8
80°	141.4	162.5	196.3	206.8	208.9
82.5°	97.0	116.0	137.2	141.4	141.4
85°	57.0	69.6	80.2	80.2	78.1
87.5°	25.3	29.5	27.4	25.3	21.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)