

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: P166521

Luminaire Tested: **24ALNG-LD4-31-UNV-L840-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166521
Test Lab: INNOVATION CENTER-P2
Test Date: 03/08/15
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD4-31-UNV-L840-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

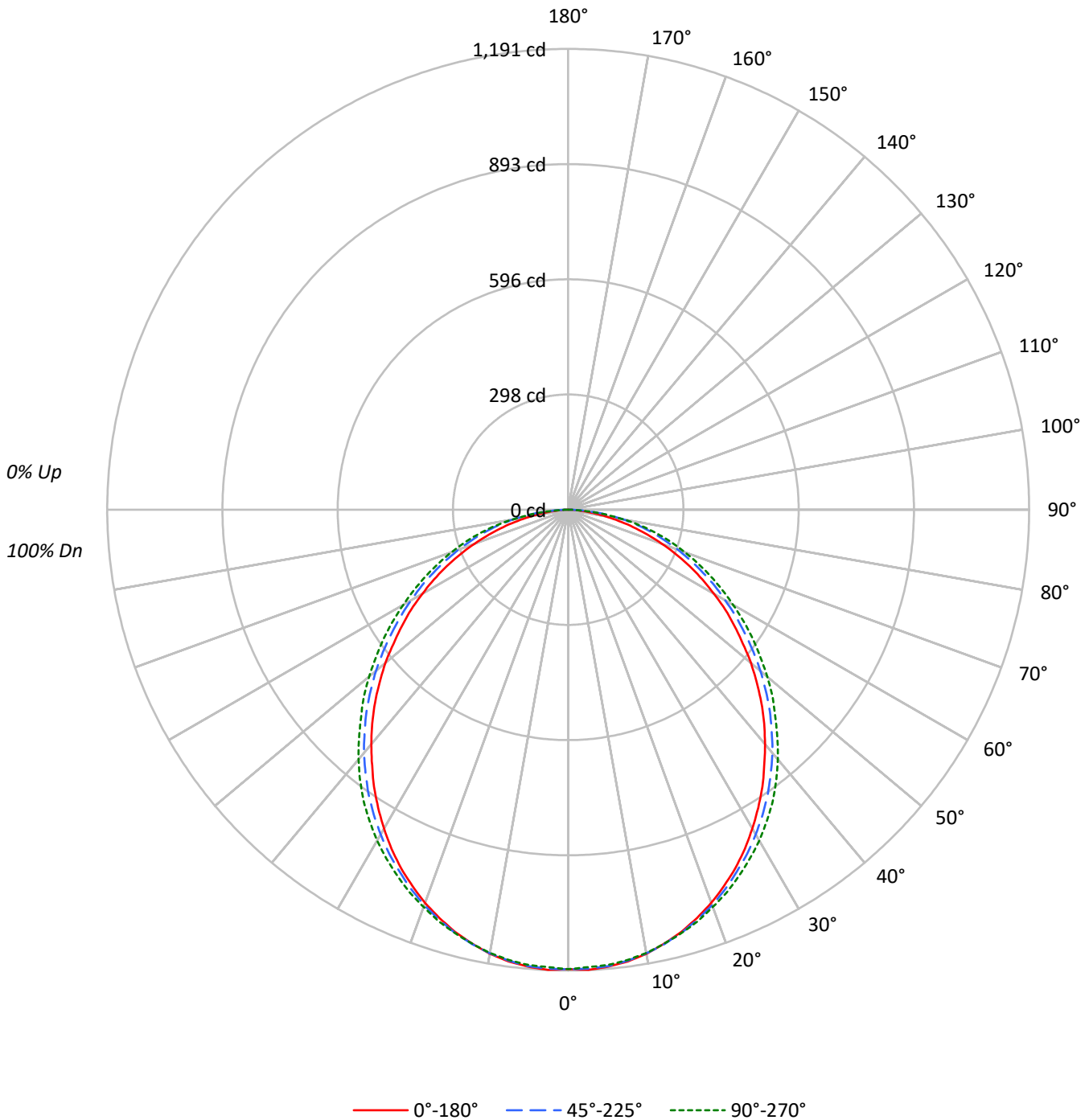
Lumens per Lamp: N/A
Luminaire Lumens: 3191.5 lumens
Efficiency: N/A
Efficacy: 124.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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	97	94	91	94	91	88	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	42	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	64	51	43	37	49	42	36	48	41	36	47	41	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	35	29	41	34	29	40	34	29	27
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°	1703	1703	1703
5°	1706	1704	1700
10°	1697	1695	1694
15°	1677	1680	1681
20°	1649	1659	1667
25°	1617	1632	1652
30°	1575	1605	1634
35°	1531	1573	1612
40°	1481	1536	1578
45°	1431	1493	1534
50°	1375	1445	1497
55°	1312	1393	1456
60°	1248	1345	1411
65°	1176	1301	1376
70°	1082	1259	1343
75°	963	1226	1314
80°	800	1183	1201
85°	589	989	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.2	3.5
10°-20°	318.6	10.0
20°-30°	474.9	14.9
30°-40°	560.3	17.6
40°-50°	565.1	17.7
50°-60°	496.4	15.6
60°-70°	375.6	11.8
70°-80°	225.3	7.1
80°-90°	63.1	2.0
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°	905.7	28.4
0°-40°	1466.0	45.9
0°-60°	2527.5	79.2
0°-90°	3191.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3191.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1187	1187	1187	1187	1187	
5°	1185	1180	1184	1182	1181	113
15°	1130	1125	1132	1133	1133	318
25°	1022	1021	1032	1038	1044	470
35°	874	877	899	912	921	546
45°	706	711	736	751	756	544
55°	525	536	557	573	583	470
65°	347	358	384	398	406	343
75°	174	194	221	234	237	185
85°	36	54	60	57	55	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1187.4	1187.4	1187.4	1187.4	1187.4
2.5°	1190.6	1184.2	1187.4	1187.4	1183.2
5°	1185.3	1180.0	1184.2	1182.1	1181.1
7.5°	1177.9	1171.6	1175.8	1174.8	1173.7
10°	1165.3	1159.0	1164.2	1163.2	1163.2
12.5°	1148.4	1144.2	1149.5	1148.4	1148.4
15°	1129.5	1125.2	1131.6	1132.6	1132.6
17.5°	1106.3	1103.1	1110.5	1112.6	1114.7
20°	1081.0	1078.9	1087.3	1088.4	1092.6
22.5°	1052.5	1050.4	1061.0	1065.2	1070.5
25°	1022.0	1020.9	1031.5	1037.8	1044.1
27.5°	988.3	988.3	1002.0	1010.4	1016.7
30°	951.4	953.5	969.3	979.8	987.2
32.5°	913.5	916.6	934.5	947.2	954.6
35°	874.5	876.6	898.7	912.4	920.8
37.5°	832.3	837.6	859.7	874.5	882.9
40°	791.3	796.5	820.8	834.5	842.9
42.5°	749.1	754.4	778.6	794.4	799.7
45°	705.9	711.2	736.5	751.2	756.5
47.5°	660.6	669.0	692.2	707.0	716.4
50°	616.4	623.7	648.0	662.7	671.1
52.5°	568.9	579.5	602.7	617.4	625.8
55°	524.7	536.3	557.4	573.2	582.6
57.5°	481.5	491.0	513.1	528.9	537.3
60°	435.1	446.7	468.9	483.6	492.0
62.5°	390.9	402.5	426.7	441.5	448.8
65°	346.6	358.2	383.5	398.3	405.6
67.5°	301.3	315.0	341.4	356.1	362.4
70°	258.1	273.9	300.3	315.0	320.3
72.5°	214.9	232.8	260.2	273.9	279.2
75°	173.8	193.9	221.3	233.9	237.1
77.5°	133.8	155.9	182.3	192.8	193.9
80°	96.9	119.1	143.3	146.5	145.4
82.5°	63.2	86.4	102.2	99.0	99.0
85°	35.8	53.7	60.1	56.9	54.8
87.5°	15.8	23.2	21.1	17.9	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)