

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: P166511

Luminaire Tested: **24ALNG-LD4-31-UNV-L835-CD1-U**

Test Date: 03/08/15



Test Information

Test Method: LM-79-08
Report Number: P166511
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-L835-CD1-U
Description: METALUX ARCLINE 2X4 LED FIXTURE
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25830)
Light Source: -
Ballast/Driver: -

Summary

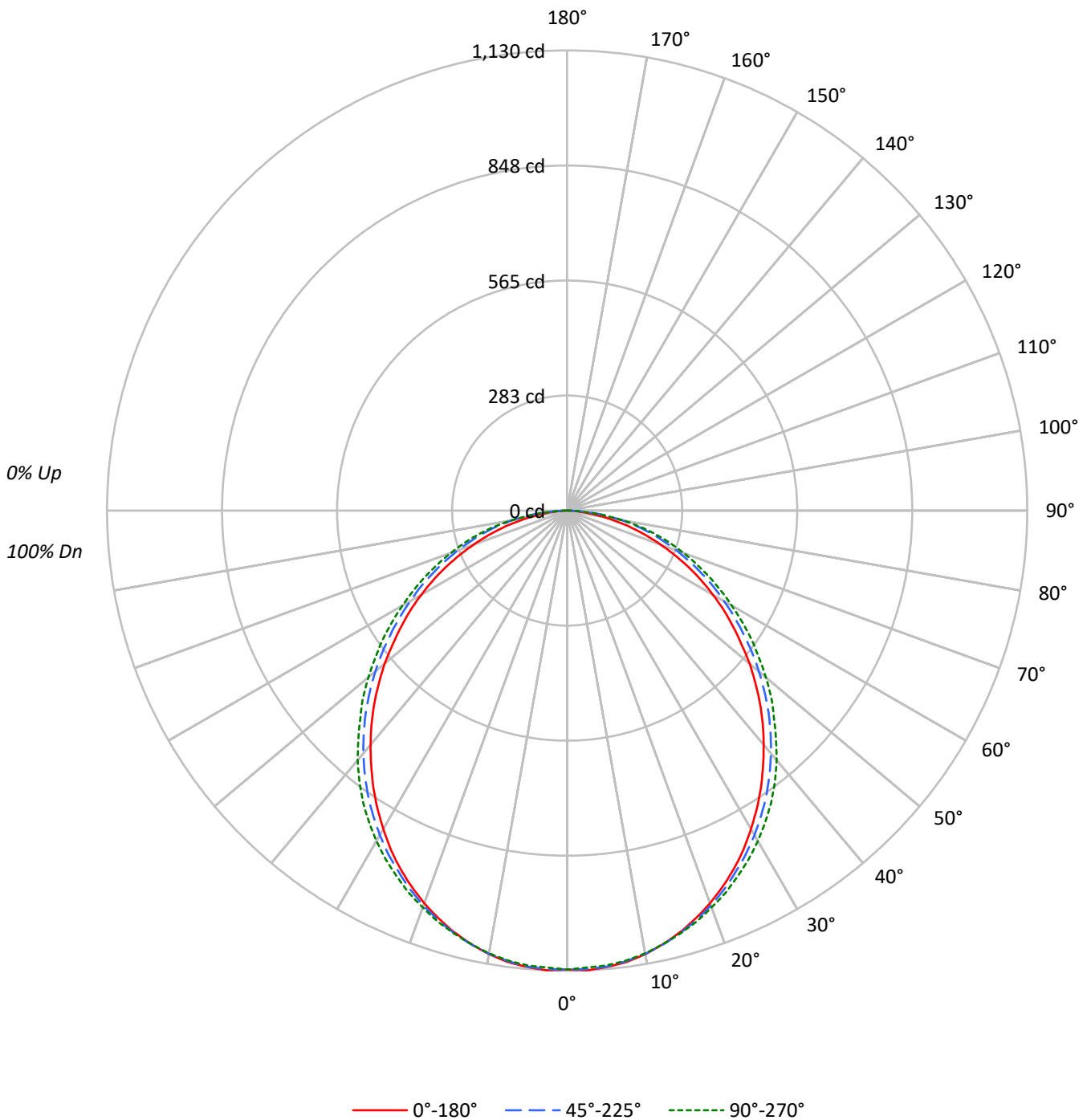
Lumens per Lamp: N/A
Luminaire Lumens: 3029.2 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.92' x L: 3.92' x H: 0')
CIE Type: Direct

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°	1616	1616	1616
5°	1619	1618	1613
10°	1610	1609	1607
15°	1591	1594	1596
20°	1566	1575	1582
25°	1535	1549	1568
30°	1495	1523	1551
35°	1453	1493	1530
40°	1406	1458	1497
45°	1359	1417	1456
50°	1305	1372	1421
55°	1245	1322	1382
60°	1184	1276	1339
65°	1116	1235	1306
70°	1027	1195	1274
75°	914	1163	1246
80°	760	1123	1140
85°	559	938	855



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.5
10°-20°	302.4	10.0
20°-30°	450.7	14.9
30°-40°	531.8	17.6
40°-50°	536.3	17.7
50°-60°	471.2	15.6
60°-70°	356.5	11.8
70°-80°	213.9	7.1
80°-90°	59.9	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°	859.6	28.4
0°-40°	1391.4	45.9
0°-60°	2398.9	79.2
0°-90°	3029.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3029.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1127	1127	1127	1127	1127	
5°	1125	1120	1124	1122	1121	107
15°	1072	1068	1074	1075	1075	302
25°	970	969	979	985	991	446
35°	830	832	853	866	874	519
45°	670	675	699	713	718	516
55°	498	509	529	544	553	446
65°	329	340	364	378	385	325
75°	165	184	210	222	225	175
85°	34	51	57	54	52	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1127	1127	1127	1127	1127
2.5°	1130	1124	1127	1127	1123
5°	1125	1120	1124	1122	1121
7.5°	1118	1112	1116	1115	1114
10°	1106	1100	1105	1104	1104
12.5°	1090	1086	1091	1090	1090
15°	1072	1068	1074	1075	1075
17.5°	1050	1047	1054	1056	1058
20°	1026	1024	1032	1033	1037
22.5°	999	997	1007	1011	1016
25°	970	969	979	985	991
27.5°	938	938	951	959	965
30°	903	905	920	930	937
32.5°	867	870	887	899	906
35°	830	832	853	866	874
37.5°	790	795	816	830	838
40°	751	756	779	792	800
42.5°	711	716	739	754	759
45°	670	675	699	713	718
47.5°	627	635	657	671	680
50°	585	592	615	629	637
52.5°	540	550	572	586	594
55°	498	509	529	544	553
57.5°	457	466	487	502	510
60°	413	424	445	459	467
62.5°	371	382	405	419	426
65°	329	340	364	378	385
67.5°	286	299	324	338	344
70°	245	260	285	299	304
72.5°	204	221	247	260	265
75°	165	184	210	222	225
77.5°	127	148	173	183	184
80°	92	113	136	139	138
82.5°	60	82	97	94	94
85°	34	51	57	54	52
87.5°	15	22	20	17	16
90°	0	0	0	0	0

(END OF REPORT)