

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: P128123

Luminaire Tested: **14ALNG-LD4-31-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128123
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-31-UNV-L850-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24767)
Light Source: -
Ballast/Driver: -

Summary

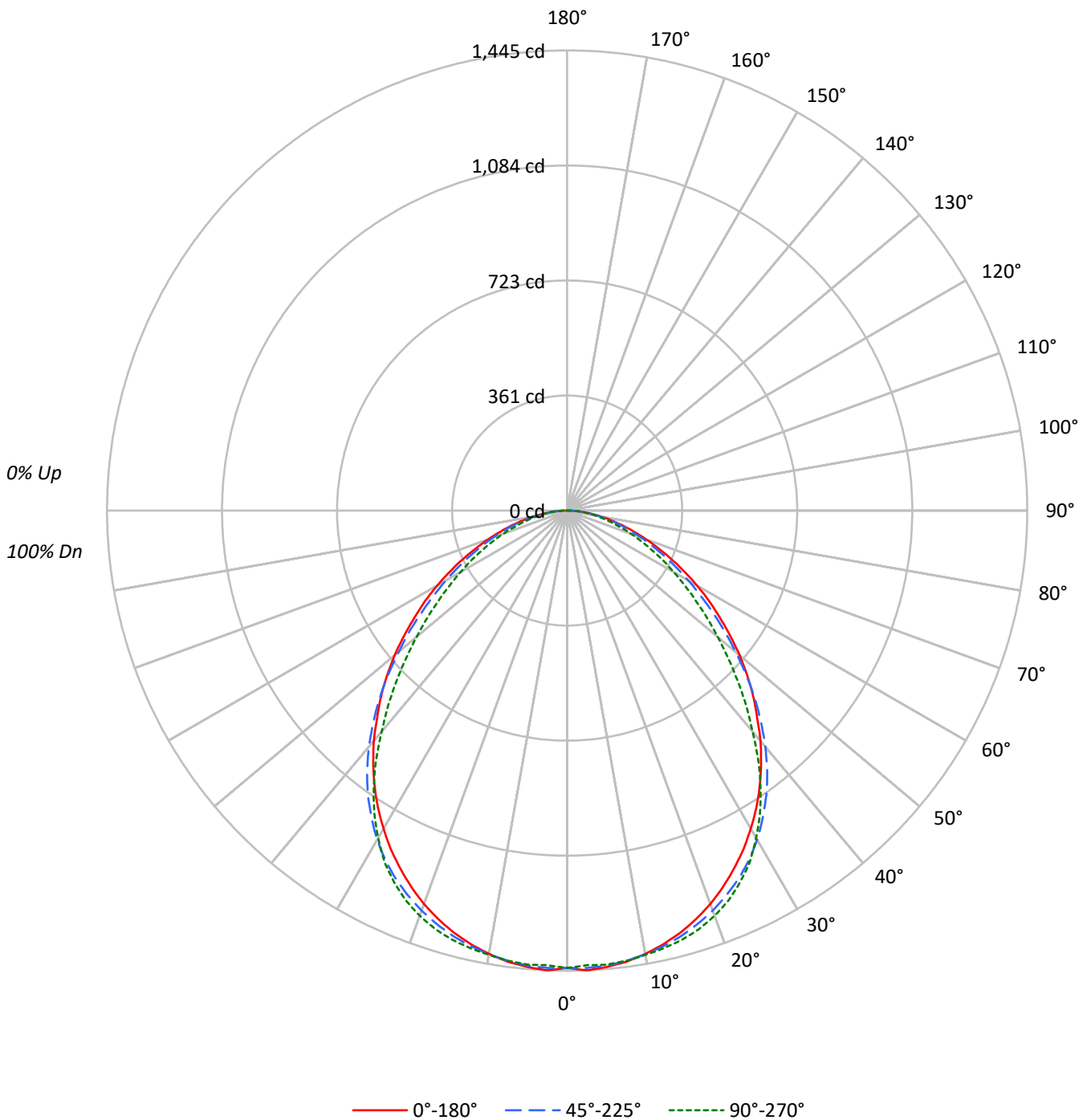
Lumens per Lamp: N/A
Luminaire Lumens: 3454.2 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 36.1
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	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33
9	59	46	38	33	57	45	38	32	44	37	32	43	37	32	42	36	32	30
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4306	4306	4306
5°	4329	4316	4306
10°	4303	4306	4313
15°	4259	4293	4330
20°	4195	4264	4320
25°	4102	4217	4256
30°	3993	4132	4109
35°	3860	3991	3876
40°	3695	3788	3542
45°	3507	3530	3213
50°	3297	3221	2877
55°	3054	2918	2578
60°	2821	2639	2314
65°	2569	2384	2076
70°	2309	2157	1881
75°	2072	1959	1670
80°	1834	1797	1554
85°	1641	1679	1603



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	3.9
10°-20°	389.2	11.3
20°-30°	582.0	16.9
30°-40°	667.4	19.3
40°-50°	624.5	18.1
50°-60°	492.6	14.3
60°-70°	330.9	9.6
70°-80°	177.6	5.1
80°-90°	54.0	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°	1107.2	32.1
0°-40°	1774.6	51.4
0°-60°	2891.7	83.7
0°-90°	3454.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3454.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1438	1426	1434	1430	1431	137
15°	1372	1365	1383	1390	1395	387
25°	1240	1243	1275	1281	1287	571
35°	1055	1064	1090	1070	1059	659
45°	827	838	832	779	758	637
55°	584	589	558	510	493	524
65°	362	361	336	302	293	360
75°	179	180	169	152	144	191
85°	48	53	49	48	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1445.0	1429.8	1437.4	1434.1	1428.7
5°	1438.5	1425.5	1434.1	1429.8	1430.9
7.5°	1428.7	1416.8	1425.5	1423.3	1425.5
10°	1413.5	1402.7	1414.6	1413.5	1416.8
12.5°	1395.1	1385.4	1400.5	1401.6	1407.0
15°	1372.3	1364.8	1383.2	1389.7	1395.1
17.5°	1345.2	1339.8	1361.5	1370.2	1377.8
20°	1314.9	1311.6	1336.6	1346.3	1353.9
22.5°	1279.1	1279.1	1307.3	1316.0	1324.6
25°	1240.1	1243.3	1274.8	1281.3	1286.7
27.5°	1198.9	1203.2	1236.8	1241.2	1243.3
30°	1153.4	1161.0	1193.5	1190.2	1187.0
32.5°	1105.7	1114.4	1143.6	1134.9	1127.4
35°	1054.7	1064.5	1090.5	1069.9	1059.1
37.5°	1000.5	1010.3	1032.0	1000.5	985.4
40°	944.2	955.0	968.0	926.8	905.1
42.5°	883.5	897.6	900.8	853.1	832.5
45°	827.1	837.9	832.5	779.4	757.7
47.5°	767.5	776.1	762.1	705.7	685.1
50°	706.8	713.3	690.5	636.3	616.8
52.5°	645.0	651.5	624.4	571.3	553.9
55°	584.3	588.6	558.3	509.5	493.2
57.5°	529.0	529.0	496.5	452.0	437.9
60°	470.5	470.5	440.1	398.9	385.9
62.5°	415.2	414.1	384.8	349.0	340.4
65°	362.1	361.0	336.0	302.4	292.7
67.5°	311.1	310.0	288.3	261.2	252.6
70°	263.4	263.4	246.1	233.1	214.6
72.5°	219.0	223.3	206.0	186.4	176.7
75°	178.9	179.9	169.1	151.8	144.2
77.5°	140.9	144.2	133.3	120.3	116.0
80°	106.2	109.5	104.1	92.1	90.0
82.5°	74.8	80.2	74.8	69.4	68.3
85°	47.7	53.1	48.8	47.7	46.6
87.5°	22.8	24.9	24.9	24.9	24.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)