

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: P128128

Luminaire Tested: **14ALNG-LD4-35-UNV-L830-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128128
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-35-UNV-L830-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (24766)
Light Source: -
Ballast/Driver: -

Summary

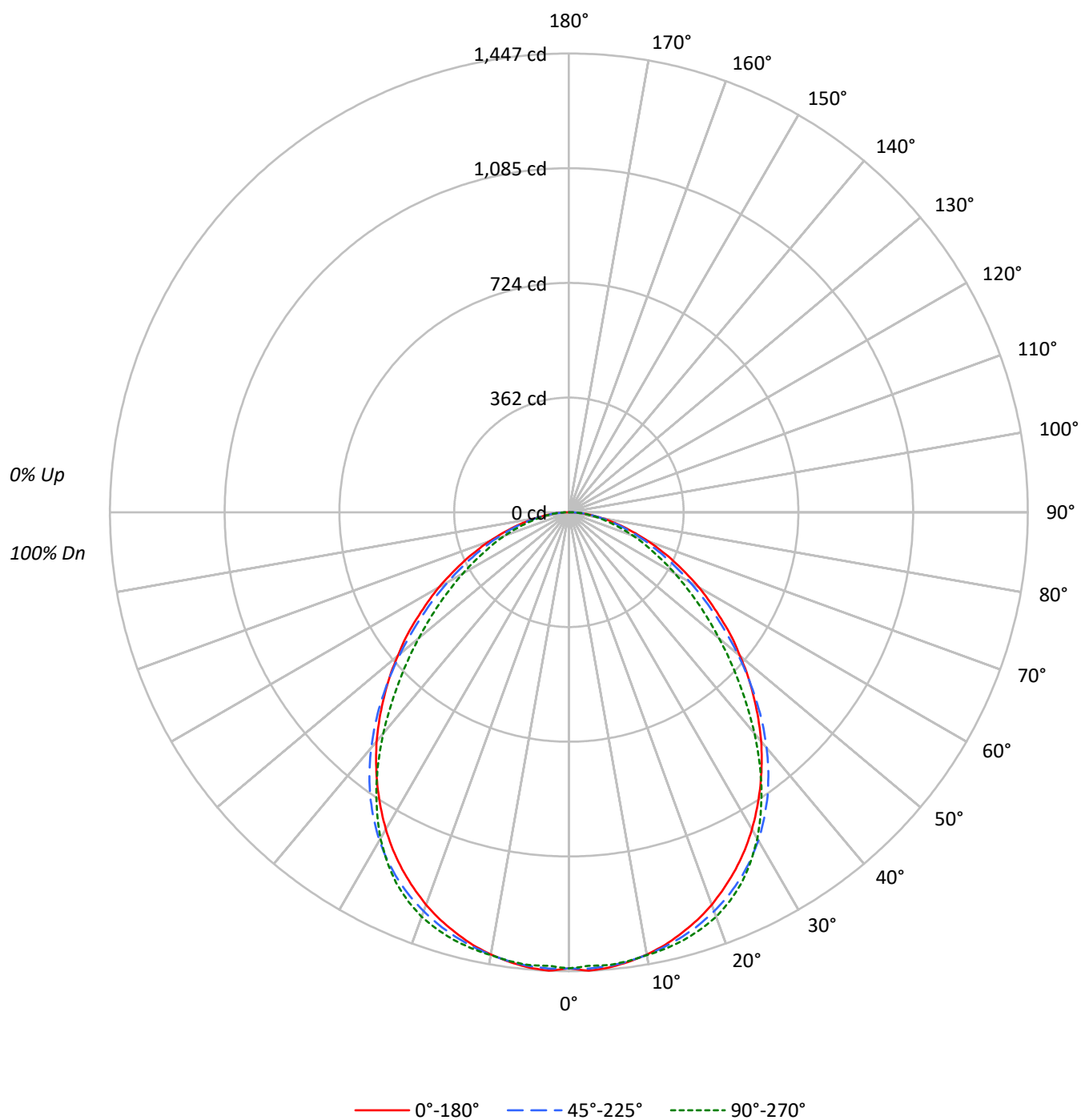
Lumens per Lamp: N/A
Luminaire Lumens: 3461.7 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 42.3
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	34	30		41	34	29		40	34	29		39	33	29

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4312	4312	4312
5°	4337	4323	4314
10°	4311	4314	4317
15°	4264	4300	4335
20°	4202	4272	4331
25°	4112	4223	4264
30°	3996	4136	4113
35°	3852	3996	3873
40°	3690	3795	3562
45°	3495	3536	3214
50°	3284	3240	2881
55°	3062	2931	2580
60°	2838	2642	2313
65°	2586	2381	2068
70°	2327	2176	1889
75°	2072	1961	1683
80°	1827	1811	1545
85°	1620	1689	1620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	3.9
10°-20°	389.8	11.3
20°-30°	583.0	16.8
30°-40°	667.9	19.3
40°-50°	625.7	18.1
50°-60°	494.2	14.3
60°-70°	332.1	9.6
70°-80°	178.5	5.2
80°-90°	54.2	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°	1109.0	32.0
0°-40°	1777.0	51.3
0°-60°	2896.9	83.7
0°-90°	3461.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3461.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1441	1428	1436	1432	1433	137
15°	1374	1366	1385	1392	1397	387
25°	1243	1244	1277	1286	1289	572
35°	1052	1065	1092	1070	1058	658
45°	824	840	834	779	758	636
55°	586	591	561	512	494	525
65°	365	362	336	304	292	362
75°	179	181	169	153	145	191
85°	47	54	49	47	47	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.2	1438.2	1438.2	1438.2	1438.2
2.5°	1446.8	1432.4	1440.1	1437.2	1431.5
5°	1441.1	1427.6	1436.3	1432.4	1433.4
7.5°	1430.5	1417.0	1428.6	1426.6	1427.6
10°	1416.1	1403.6	1417.0	1416.1	1418.0
12.5°	1397.8	1387.2	1402.6	1405.5	1409.3
15°	1373.7	1366.0	1385.3	1392.0	1396.8
17.5°	1347.8	1341.0	1364.1	1373.7	1379.5
20°	1317.0	1313.1	1339.1	1348.7	1357.4
22.5°	1281.4	1280.4	1310.2	1319.9	1326.6
25°	1242.9	1243.9	1276.6	1286.2	1289.1
27.5°	1200.6	1205.4	1238.1	1243.9	1241.9
30°	1154.4	1162.1	1194.8	1193.8	1188.1
32.5°	1104.4	1115.9	1145.7	1135.2	1125.5
35°	1052.4	1064.9	1091.9	1069.7	1058.2
37.5°	998.6	1013.9	1033.2	1000.5	986.0
40°	942.8	958.2	969.7	928.3	910.1
42.5°	884.1	899.5	903.3	856.2	833.1
45°	824.4	839.8	834.1	779.2	758.1
47.5°	765.8	779.2	763.8	708.0	686.9
50°	704.2	715.7	694.6	640.7	617.6
52.5°	648.4	652.2	625.3	574.3	553.2
55°	585.9	590.7	560.8	511.8	493.5
57.5°	528.1	530.1	500.2	454.1	437.7
60°	473.3	471.4	440.6	401.2	385.8
62.5°	415.6	415.6	386.7	351.1	336.7
65°	364.6	361.7	335.7	304.0	291.5
67.5°	313.6	311.7	288.6	262.6	254.0
70°	265.5	265.5	248.2	235.7	215.5
72.5°	220.3	224.1	205.9	186.6	178.0
75°	178.9	180.9	169.3	153.0	145.3
77.5°	140.5	144.3	134.7	121.2	115.4
80°	105.8	111.6	104.9	93.3	89.5
82.5°	75.0	80.8	75.0	69.3	67.3
85°	47.1	53.9	49.1	47.1	47.1
87.5°	23.1	26.0	25.0	25.0	25.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)