

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: P128126

Luminaire Tested: **14ALNG-LD4-35-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128126
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-L850-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (24766)
Light Source: -
Ballast/Driver: -

Summary

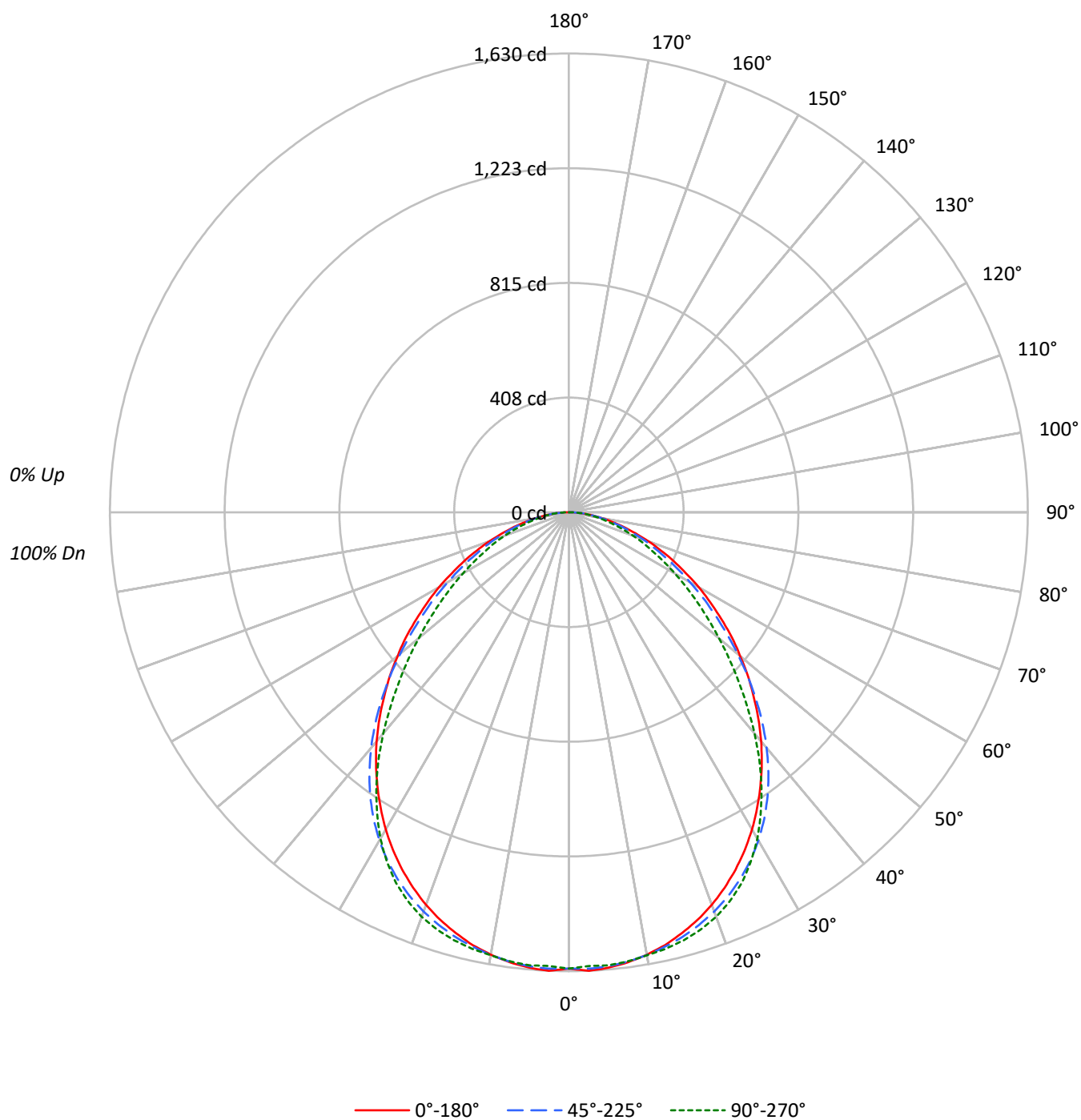
Lumens per Lamp: N/A
Luminaire Lumens: 3900.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

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	50	30	10
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	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30		
10	55	42	35	30	54	42	34	30	41	34	29	40	34	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4859	4859	4859
5°	4887	4871	4861
10°	4858	4861	4864
15°	4805	4845	4885
20°	4735	4814	4880
25°	4633	4759	4805
30°	4503	4661	4634
35°	4340	4503	4364
40°	4158	4276	4013
45°	3939	3985	3622
50°	3701	3650	3246
55°	3451	3303	2907
60°	3198	2977	2607
65°	2914	2684	2330
70°	2623	2452	2128
75°	2335	2210	1896
80°	2058	2041	1740
85°	1827	1902	1827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.9
10°-20°	439.2	11.3
20°-30°	657.0	16.8
30°-40°	752.7	19.3
40°-50°	705.1	18.1
50°-60°	556.8	14.3
60°-70°	374.2	9.6
70°-80°	201.1	5.2
80°-90°	61.1	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°	1249.7	32.0
0°-40°	2002.3	51.3
0°-60°	3264.3	83.7
0°-90°	3900.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3900.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1621	1621	1621	1621	1621	
5°	1624	1609	1618	1614	1615	154
15°	1548	1539	1561	1568	1574	436
25°	1400	1402	1438	1449	1453	644
35°	1186	1200	1230	1205	1192	741
45°	929	946	940	878	854	717
55°	660	666	632	577	556	592
65°	411	408	378	342	328	408
75°	202	204	191	172	164	215
85°	53	61	55	53	53	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1620.6	1620.6	1620.6	1620.6	1620.6
2.5°	1630.3	1614.1	1622.7	1619.5	1613.0
5°	1623.8	1608.7	1618.4	1614.1	1615.2
7.5°	1611.9	1596.7	1609.7	1607.6	1608.7
10°	1595.6	1581.6	1596.7	1595.6	1597.8
12.5°	1575.1	1563.1	1580.5	1583.7	1588.1
15°	1548.0	1539.3	1561.0	1568.5	1574.0
17.5°	1518.7	1511.1	1537.1	1548.0	1554.5
20°	1484.0	1479.7	1508.9	1519.8	1529.5
22.5°	1443.9	1442.8	1476.4	1487.2	1494.8
25°	1400.5	1401.6	1438.5	1449.3	1452.6
27.5°	1352.8	1358.3	1395.1	1401.6	1399.4
30°	1300.8	1309.5	1346.3	1345.2	1338.7
32.5°	1244.4	1257.4	1291.0	1279.1	1268.3
35°	1185.9	1200.0	1230.3	1205.4	1192.4
37.5°	1125.2	1142.5	1164.2	1127.4	1111.1
40°	1062.3	1079.7	1092.7	1046.1	1025.5
42.5°	996.2	1013.5	1017.9	964.8	938.7
45°	929.0	946.3	939.8	878.0	854.2
47.5°	862.9	878.0	860.7	797.8	774.0
50°	793.5	806.5	782.6	721.9	695.9
52.5°	730.6	735.0	704.6	647.1	623.3
55°	660.2	665.6	632.0	576.7	556.1
57.5°	595.1	597.3	563.7	511.6	493.2
60°	533.3	531.2	496.5	452.0	434.7
62.5°	468.3	468.3	435.8	395.7	379.4
65°	410.8	407.6	378.3	342.5	328.5
67.5°	353.4	351.2	325.2	295.9	286.2
70°	299.2	299.2	279.7	265.6	242.8
72.5°	248.2	252.6	232.0	210.3	200.5
75°	201.6	203.8	190.8	172.4	163.7
77.5°	158.3	162.6	151.8	136.6	130.1
80°	119.2	125.7	118.2	105.1	100.8
82.5°	84.6	91.1	84.6	78.0	75.9
85°	53.1	60.7	55.3	53.1	53.1
87.5°	26.0	29.3	28.2	28.2	28.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)