

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: P128129

Luminaire Tested: **14ALNG-LD4-40-UNV-L850-CD1-U**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P128129
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14ALNG-LD4-40-UNV-L850-CD1-U
Description: METALUX; ARCLINE 1X4 LED
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24765)
Light Source: -
Ballast/Driver: -

Summary

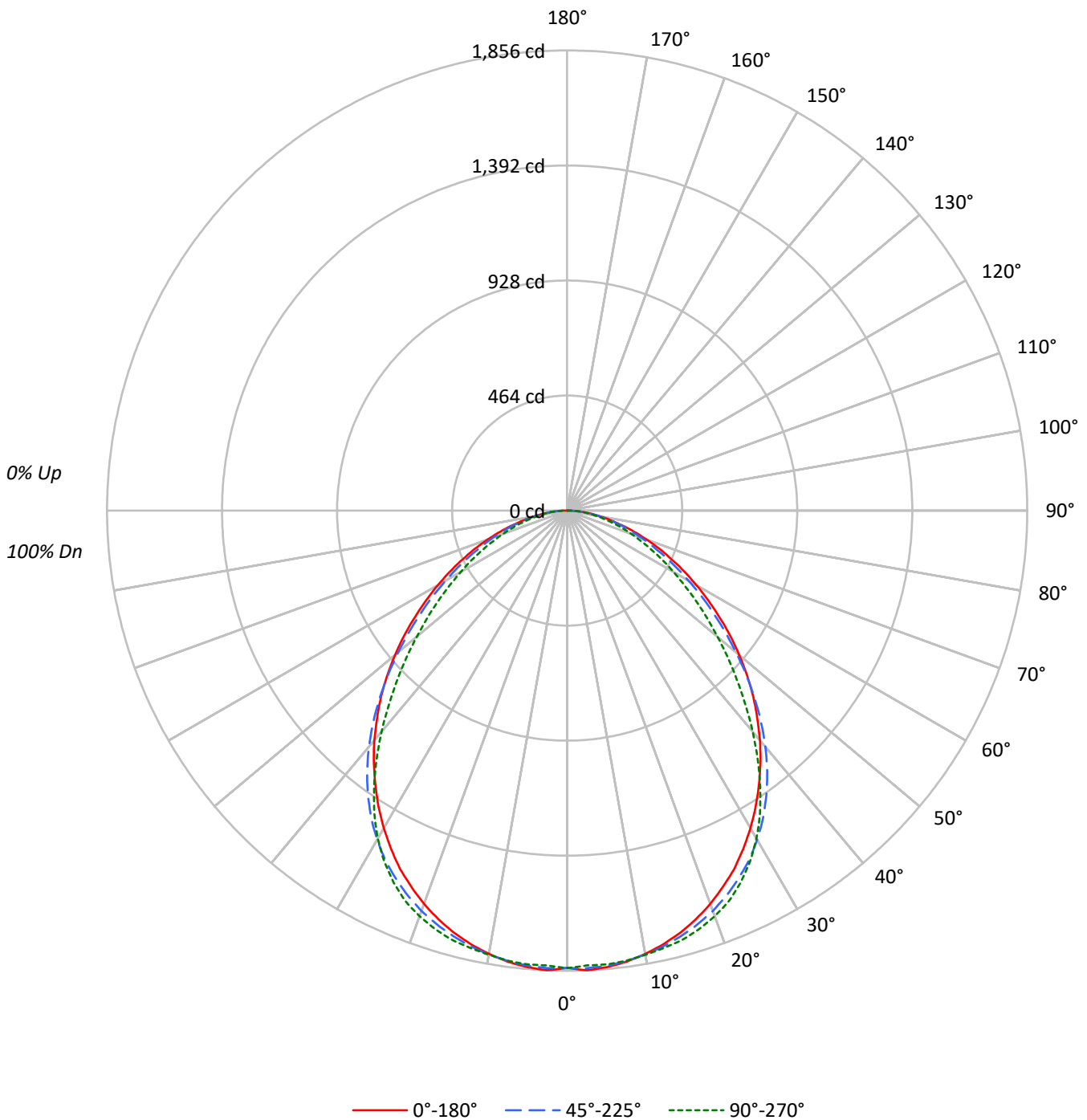
Lumens per Lamp: N/A
Luminaire Lumens: 4437.9 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.22 / 1.3
Luminous Opening: Rectangular (W 0.92' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 50.9
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	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					100			
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85					85			
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73					73			
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62					62			
4	85	73	65	59	82	72	64	58	70	63	57	67	61	57	65	60	56	54					54			
5	78	66	57	51	76	65	57	51	63	56	50	61	55	50	59	54	49	47					47			
6	72	60	51	45	71	59	51	45	57	50	44	55	49	44	54	48	44	42					42			
7	67	54	46	40	66	54	46	40	52	45	40	51	44	39	49	43	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	35	45	40	35	33					33			
9	59	46	38	32	57	45	38	32	44	37	32	43	37	32	42	36	32	30					30			
10	55	42	35	30	54	42	35	30	41	34	29	40	34	29	39	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5531	5531	5531
5°	5562	5546	5530
10°	5528	5534	5538
15°	5471	5515	5565
20°	5385	5482	5554
25°	5275	5415	5476
30°	5119	5306	5288
35°	4935	5126	4967
40°	4734	4866	4556
45°	4499	4532	4114
50°	4227	4146	3686
55°	3921	3757	3309
60°	3614	3387	2964
65°	3292	3053	2668
70°	2984	2774	2423
75°	2636	2537	2172
80°	2339	2301	2022
85°	2088	2164	2088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.7	3.9
10°-20°	500.0	11.3
20°-30°	748.0	16.9
30°-40°	856.5	19.3
40°-50°	802.1	18.1
50°-60°	633.3	14.3
60°-70°	425.3	9.6
70°-80°	228.5	5.1
80°-90°	69.5	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°	1422.7	32.1
0°-40°	2279.2	51.4
0°-60°	3714.6	83.7
0°-90°	4437.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4437.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1845	1845	1845	1845	1845	
5°	1848	1831	1843	1837	1837	175
15°	1763	1753	1777	1785	1793	497
25°	1595	1598	1637	1650	1655	733
35°	1348	1366	1400	1369	1357	843
45°	1061	1075	1069	1002	970	817
55°	750	757	719	657	633	672
65°	464	465	430	390	376	462
75°	228	231	219	195	188	244
85°	61	67	63	61	61	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1845.0	1845.0	1845.0	1845.0	1845.0
2.5°	1855.8	1837.4	1847.1	1842.8	1836.3
5°	1848.2	1830.9	1842.8	1837.4	1837.4
7.5°	1835.2	1819.0	1832.0	1829.8	1830.9
10°	1815.7	1801.6	1817.9	1816.8	1819.0
12.5°	1791.9	1778.8	1799.4	1801.6	1807.0
15°	1762.6	1752.8	1776.7	1785.3	1792.9
17.5°	1727.9	1721.4	1749.6	1762.6	1770.2
20°	1687.8	1684.5	1718.1	1731.1	1740.9
22.5°	1642.3	1643.3	1680.2	1693.2	1705.1
25°	1594.6	1597.8	1636.8	1649.8	1655.3
27.5°	1538.2	1546.9	1589.1	1593.5	1596.7
30°	1478.6	1491.6	1532.8	1528.4	1527.4
32.5°	1415.7	1432.0	1471.0	1453.6	1448.2
35°	1348.5	1365.8	1400.5	1369.1	1357.2
37.5°	1281.3	1298.6	1325.7	1283.5	1262.9
40°	1209.7	1228.2	1243.3	1190.2	1164.2
42.5°	1134.9	1153.4	1157.7	1095.9	1065.6
45°	1061.2	1075.3	1068.8	1001.6	970.2
47.5°	984.3	997.3	978.9	907.3	880.2
50°	906.2	917.1	888.9	819.5	790.2
52.5°	829.3	836.8	802.2	736.0	711.1
55°	750.1	756.6	718.7	656.9	633.1
57.5°	675.3	679.7	641.7	582.1	561.5
60°	602.7	604.9	564.8	511.6	494.3
62.5°	532.2	532.2	496.5	448.8	435.8
65°	464.0	465.0	430.3	390.2	376.1
67.5°	402.2	400.0	369.6	336.0	324.1
70°	340.4	339.3	316.5	294.8	276.4
72.5°	281.8	286.2	265.6	239.6	229.8
75°	227.6	230.9	219.0	195.1	187.5
77.5°	179.9	185.4	172.4	155.0	148.5
80°	135.5	142.0	133.3	119.2	117.1
82.5°	96.5	103.0	96.5	88.9	87.8
85°	60.7	67.2	62.9	60.7	60.7
87.5°	28.2	33.6	32.5	32.5	32.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)