

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: P229392

Luminaire Tested: **14ALNG-LD5-40-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P229392  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36088)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 14ALNG-LD5-40-UNV-L830-CD1-SVPD1-U  
Description: METALUX 1X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR  
Light Source: (84)3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3815.0 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.21 / 1.29  
Luminous Opening: Rectangular (W 0.83' x L: 3.83' x H: 0')  
CIE Type: Direct

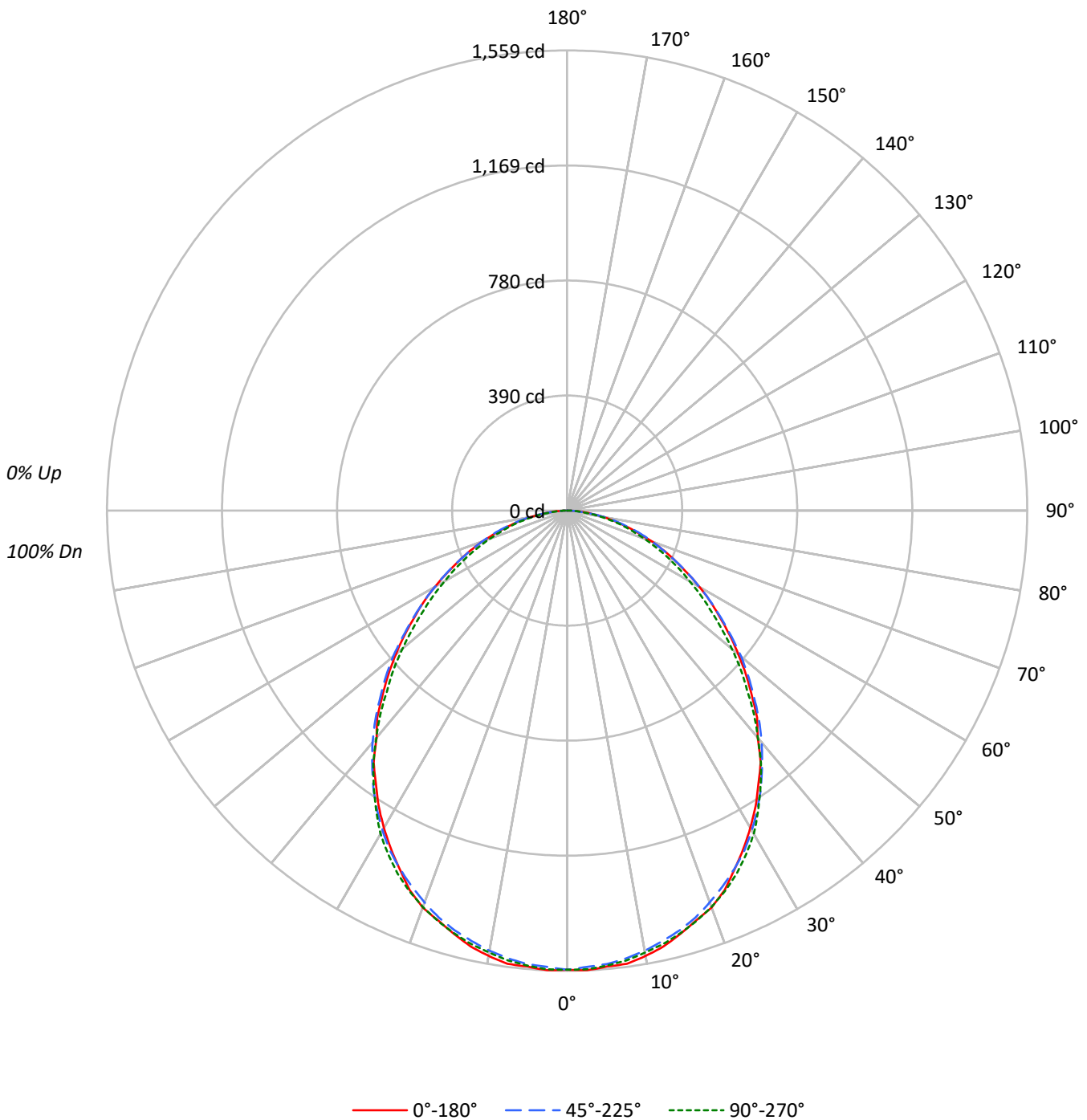
Input Watts (W): 40.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	105	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	92	81	74	67	89	80	73	67	77	71	66	74	69	64	72	67	63	61
4	84	73	64	58	82	71	63	57	69	62	56	66	61	56	64	59	55	53
5	78	65	56	50	76	64	56	50	62	55	49	60	54	49	58	53	48	46
6	72	59	50	44	70	58	50	44	56	49	43	55	48	43	53	47	43	41
7	67	54	45	39	65	53	45	39	51	44	39	50	43	38	49	43	38	36
8	62	49	41	35	61	48	40	35	47	40	35	46	39	35	45	39	34	32
9	58	45	37	32	57	45	37	32	43	36	31	42	36	31	41	35	31	29
10	55	42	34	29	53	41	34	29	40	33	29	39	33	29	38	33	28	27

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	5241	5241	5241
5°	5244	5216	5233
10°	5242	5180	5202
15°	5177	5136	5171
20°	5131	5065	5125
25°	4986	4980	5048
30°	4830	4869	4920
35°	4648	4710	4696
40°	4415	4510	4422
45°	4213	4268	4110
50°	3972	4033	3816
55°	3719	3749	3505
60°	3494	3483	3236
65°	3233	3233	2995
70°	2996	2996	2734
75°	2683	2769	2510
80°	2387	2484	2160
85°	2057	1798	1604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.9	3.9
10°-20°	417.4	10.9
20°-30°	618.9	16.2
30°-40°	712.2	18.7
40°-50°	683.6	17.9
50°-60°	563.3	14.8
60°-70°	396.2	10.4
70°-80°	219.0	5.7
80°-90°	57.3	1.5
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°	1183.3	31.0
0°-40°	1895.5	49.7
0°-60°	3142.4	82.4
0°-90°	3815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3815.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1555	1555	1555	1555	1555	
5°	1550	1547	1542	1549	1547	148
15°	1484	1484	1472	1482	1482	419
25°	1341	1331	1339	1356	1358	618
35°	1130	1130	1145	1150	1142	707
45°	884	892	896	881	862	682
55°	633	645	638	613	597	568
65°	406	412	406	384	376	403
75°	206	214	213	196	193	220
85°	53	55	46	42	42	61
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1555.4	1555.4	1555.4	1555.4	1555.4
2.5°	1558.7	1553.7	1547.1	1555.4	1555.4
5°	1550.4	1547.1	1542.1	1548.8	1547.1
7.5°	1548.8	1538.8	1530.5	1538.8	1537.1
10°	1532.1	1528.8	1513.9	1522.2	1520.5
12.5°	1512.2	1508.9	1493.9	1503.9	1503.9
15°	1484.0	1484.0	1472.3	1482.3	1482.3
17.5°	1455.7	1454.0	1445.7	1457.4	1457.4
20°	1430.8	1419.1	1412.5	1429.1	1429.1
22.5°	1392.6	1377.6	1377.6	1397.5	1395.9
25°	1341.0	1331.1	1339.4	1356.0	1357.7
27.5°	1292.9	1287.9	1299.5	1314.5	1312.8
30°	1241.3	1236.4	1251.3	1264.6	1264.6
32.5°	1188.2	1184.8	1199.8	1211.4	1204.8
35°	1130.0	1130.0	1145.0	1149.9	1141.6
37.5°	1076.8	1075.2	1085.1	1086.8	1078.5
40°	1003.7	1015.3	1025.3	1018.7	1005.4
42.5°	952.2	955.5	962.2	948.9	937.2
45°	884.1	892.4	895.7	880.7	862.5
47.5°	820.9	830.9	832.5	810.9	797.6
50°	757.8	769.4	769.4	742.8	727.9
52.5°	694.6	706.2	701.3	681.3	661.4
55°	633.1	644.8	638.1	613.2	596.6
57.5°	576.6	584.9	578.3	555.0	538.4
60°	518.5	525.1	516.8	495.2	480.2
62.5°	458.6	467.0	462.0	440.4	428.7
65°	405.5	412.1	405.5	383.9	375.6
67.5°	355.6	357.3	354.0	337.3	325.7
70°	304.1	307.4	304.1	289.1	277.5
72.5°	252.6	257.6	260.9	244.3	232.6
75°	206.1	214.4	212.7	196.1	192.8
77.5°	162.9	172.8	169.5	154.5	151.2
80°	123.0	131.3	128.0	114.7	111.3
82.5°	84.7	91.4	84.7	78.1	74.8
85°	53.2	54.8	46.5	41.5	41.5
87.5°	23.3	19.9	16.6	16.6	16.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)