

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: P229366

Luminaire Tested: **24ALNG-LD5-74-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229366
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36066)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-74-UNV-L830-CD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS
Light Source: (252)3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7223.0 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

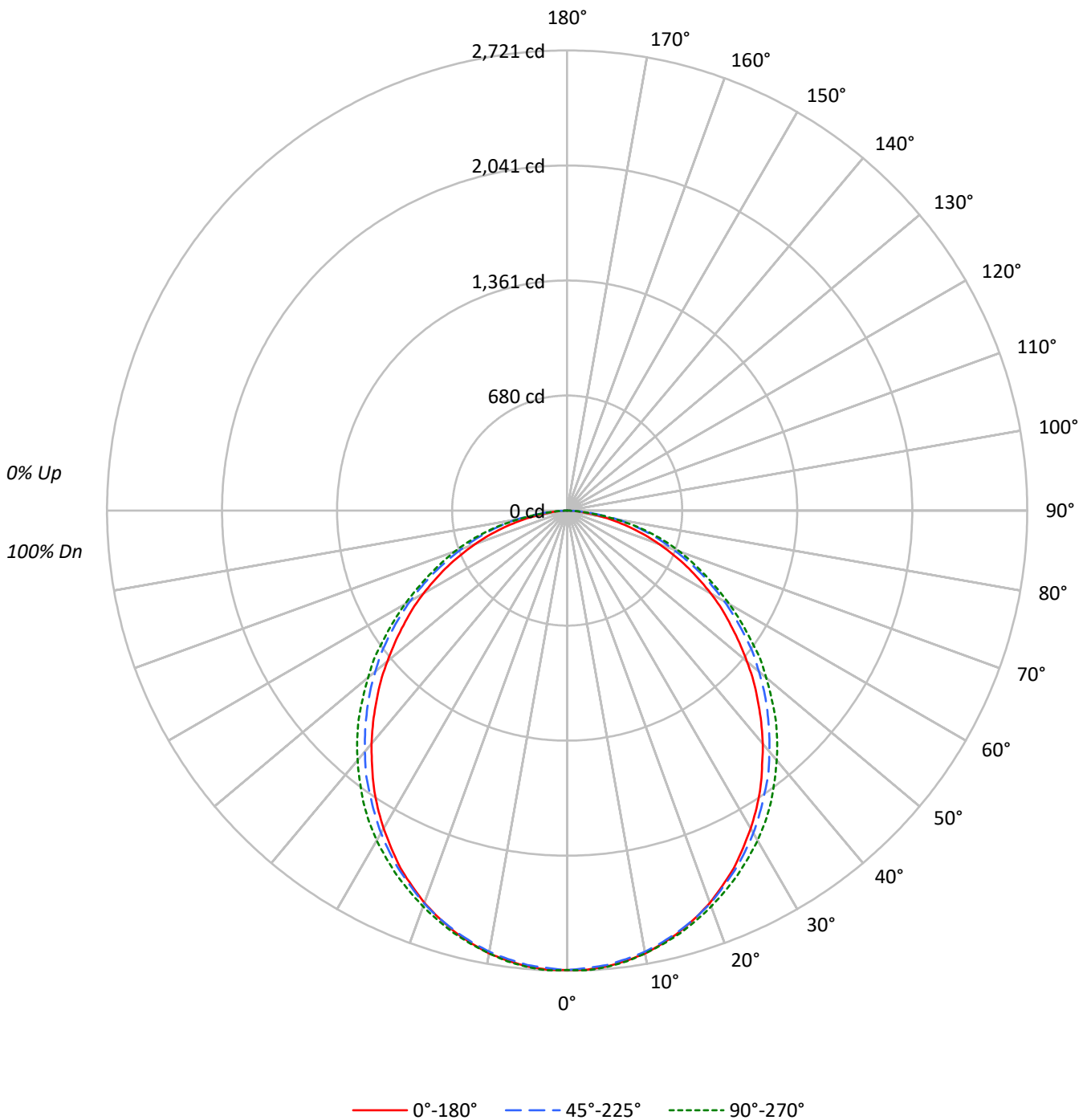
Input Watts (W): 60.94
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	72	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	63	57	53	51
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	71	57	48	42	69	56	48	42	55	47	41	53	46	41	51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33	44	38	33	43	37	32	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4162	4162	4162
5°	4159	4147	4165
10°	4135	4120	4135
15°	4086	4077	4102
20°	4024	4030	4060
25°	3942	3966	4023
30°	3839	3895	3984
35°	3729	3807	3931
40°	3599	3719	3855
45°	3457	3626	3778
50°	3306	3526	3659
55°	3154	3417	3529
60°	3005	3287	3392
65°	2823	3142	3251
70°	2592	2977	3165
75°	2275	2855	3010
80°	1836	2666	2525
85°	1302	1759	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.5	3.6
10°-20°	727.0	10.1
20°-30°	1083.3	15.0
30°-40°	1278.0	17.7
40°-50°	1290.2	17.9
50°-60°	1133.2	15.7
60°-70°	845.1	11.7
70°-80°	492.2	6.8
80°-90°	117.5	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°	2066.7	28.6
0°-40°	3344.7	46.3
0°-60°	5768.1	79.9
0°-90°	7223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7223.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2717	2717	2717	2717	2717	
5°	2705	2703	2697	2705	2709	257
15°	2577	2575	2571	2583	2587	726
25°	2333	2335	2347	2373	2381	1073
35°	1994	2006	2036	2084	2102	1245
45°	1596	1620	1674	1724	1744	1232
55°	1181	1217	1280	1320	1322	1058
65°	779	811	867	893	897	769
75°	384	430	482	507	509	410
85°	74	108	100	84	80	93
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2717.1	2717.1	2717.1	2717.1	2717.1
2.5°	2717.1	2715.1	2707.1	2715.1	2721.1
5°	2705.1	2703.1	2697.1	2705.1	2709.1
7.5°	2685.1	2683.0	2675.0	2687.1	2689.1
10°	2659.0	2655.0	2649.0	2657.0	2659.0
12.5°	2621.0	2619.0	2613.0	2623.0	2625.0
15°	2576.9	2574.9	2570.9	2582.9	2586.9
17.5°	2524.9	2526.9	2524.9	2538.9	2540.9
20°	2468.8	2470.8	2472.8	2488.8	2490.8
22.5°	2400.7	2402.7	2408.7	2430.8	2436.8
25°	2332.7	2334.7	2346.7	2372.7	2380.7
27.5°	2250.6	2258.6	2276.6	2308.6	2316.6
30°	2170.5	2178.5	2202.5	2240.5	2252.6
32.5°	2084.4	2092.4	2120.4	2162.5	2180.5
35°	1994.3	2006.3	2036.3	2084.4	2102.4
37.5°	1894.2	1916.2	1956.2	2002.3	2014.3
40°	1800.0	1816.1	1860.1	1916.2	1928.2
42.5°	1697.9	1720.0	1768.0	1824.1	1838.1
45°	1595.8	1619.8	1673.9	1724.0	1744.0
47.5°	1495.7	1521.7	1579.8	1631.9	1637.9
50°	1387.6	1419.6	1479.7	1529.7	1535.7
52.5°	1283.5	1321.5	1385.6	1425.6	1439.6
55°	1181.3	1217.4	1279.5	1319.5	1321.5
57.5°	1085.2	1115.3	1175.3	1209.4	1215.4
60°	981.1	1011.1	1073.2	1101.3	1107.3
62.5°	877.0	909.0	969.1	997.1	1001.1
65°	778.9	810.9	867.0	893.0	897.0
67.5°	674.8	714.8	762.9	796.9	800.9
70°	578.7	618.7	664.8	698.8	706.8
72.5°	482.5	528.6	574.7	600.7	610.7
75°	384.4	430.5	482.5	506.6	508.6
77.5°	294.3	338.4	392.4	406.5	400.5
80°	208.2	256.3	302.3	300.3	286.3
82.5°	132.2	178.2	196.2	184.2	176.2
85°	74.1	108.1	100.1	84.1	80.1
87.5°	30.0	32.0	24.0	16.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)