

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: P229430

Luminaire Tested: **24ALNG-LD5-80-UNV-L830-CD1-SVPD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P229430
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P36086)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24ALNG-LD5-80-UNV-L830-CD1-SVPD1-U
Description: METALUX 2X4 ARCLINE LED TROFFER WITH CURVED LENS AND SENSOR
Light Source: (252)3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7463.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1.83' x L: 3.83' x H: 0')
CIE Type: Direct

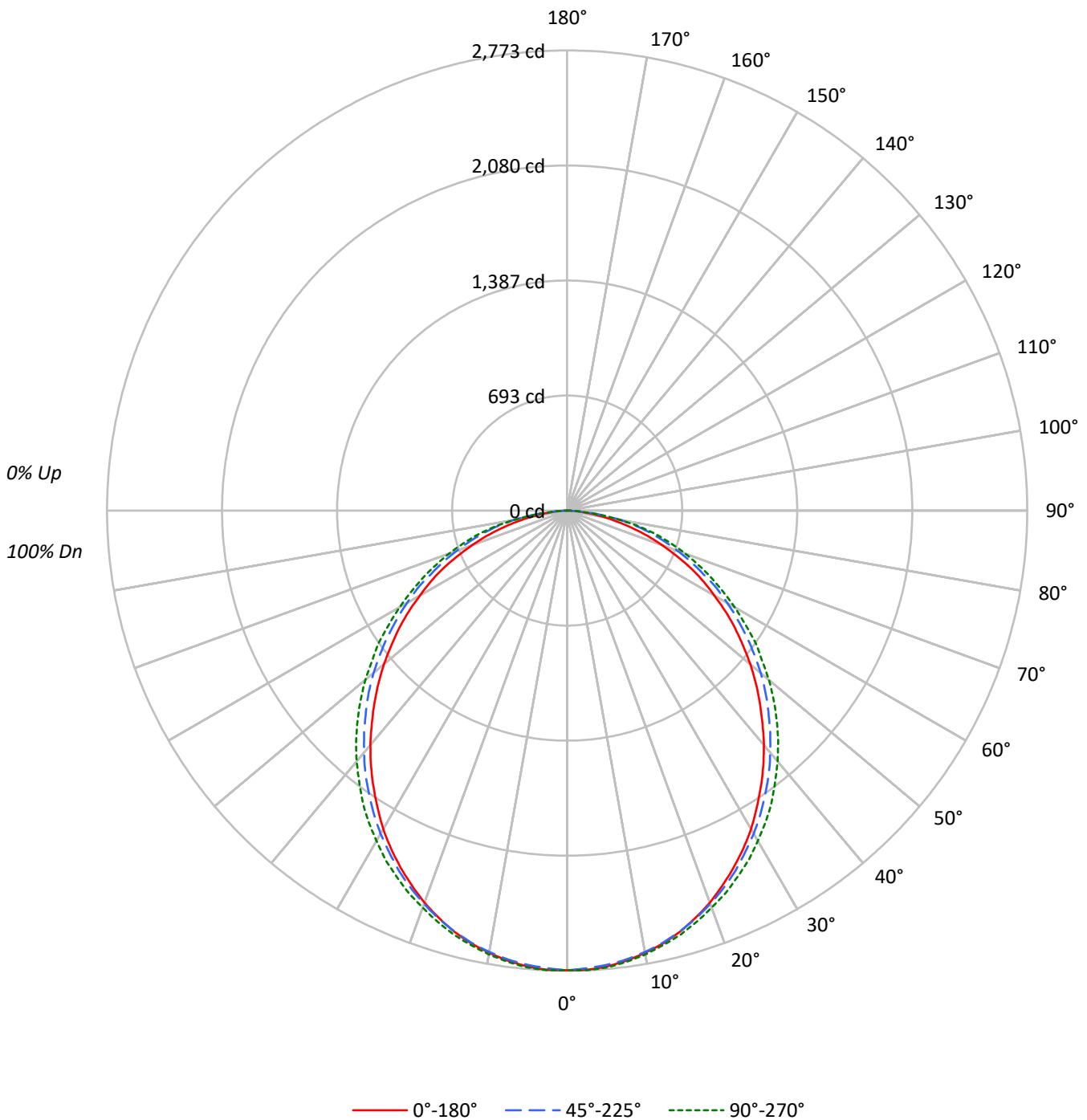
Input Watts (W): 65.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P229430

CATALOG NUMBER: 24ALNG-LD5-80-UNV-L830-CD1-SVPD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P229430

CATALOG NUMBER: 24ALNG-LD5-80-UNV-L830-CD1-SVPD1-U

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	94	98	94	91	94	91	89	90	88	86	84
2	99	91	84	78	96	89	83	77	85	80	75	82	78	74	79	75	72	70
3	90	80	72	65	88	78	71	64	75	69	63	72	67	62	70	65	61	59
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	50
5	76	63	54	48	74	62	54	47	60	53	47	58	51	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	47	40	36	34
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4243	4243	4243
5°	4240	4225	4248
10°	4209	4201	4224
15°	4166	4162	4193
20°	4098	4110	4150
25°	4012	4049	4112
30°	3920	3977	4064
35°	3804	3892	4016
40°	3689	3807	3945
45°	3560	3714	3869
50°	3435	3629	3781
55°	3298	3521	3699
60°	3135	3414	3572
65°	2987	3281	3477
70°	2732	3162	3382
75°	2388	3057	3290
80°	1996	2864	2843
85°	1383	2031	1815



TEST NUMBER: P229430

CATALOG NUMBER: 24ALNG-LD5-80-UNV-L830-CD1-SVPD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.5	3.5
10°-20°	741.9	9.9
20°-30°	1106.0	14.8
30°-40°	1305.7	17.5
40°-50°	1323.5	17.7
50°-60°	1173.8	15.7
60°-70°	890.3	11.9
70°-80°	527.3	7.1
80°-90°	133.0	1.8
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°	2109.4	28.3
0°-40°	3415.1	45.8
0°-60°	5912.4	79.2
0°-90°	7463.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7463.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2770	2770	2770	2770	2770	
5°	2758	2755	2748	2758	2763	262
15°	2627	2627	2625	2637	2645	740
25°	2374	2379	2396	2426	2433	1093
35°	2034	2052	2081	2128	2148	1273
45°	1643	1666	1715	1766	1786	1268
55°	1235	1260	1319	1368	1385	1103
65°	824	849	905	945	960	812
75°	404	458	517	544	556	432
85°	79	118	116	106	103	100
90°	0	0	0	0	0	



TEST NUMBER: P229430

CATALOG NUMBER: 24ALNG-LD5-80-UNV-L830-CD1-SVPD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2770.1	2770.1	2770.1	2770.1	2770.1
2.5°	2770.1	2767.6	2760.3	2770.1	2772.6
5°	2757.8	2755.3	2748.0	2757.8	2762.7
7.5°	2735.7	2735.7	2728.3	2738.1	2743.0
10°	2706.1	2706.1	2701.2	2711.1	2716.0
12.5°	2671.7	2671.7	2666.8	2679.1	2681.5
15°	2627.4	2627.4	2625.0	2637.3	2644.6
17.5°	2573.3	2573.3	2578.2	2595.4	2597.9
20°	2514.3	2516.7	2521.6	2543.8	2546.2
22.5°	2445.4	2452.7	2462.6	2487.2	2494.6
25°	2374.0	2378.9	2396.2	2425.7	2433.1
27.5°	2297.8	2305.1	2322.4	2359.3	2371.6
30°	2216.6	2221.5	2248.6	2285.5	2297.8
32.5°	2125.6	2137.9	2167.4	2211.7	2226.4
35°	2034.5	2051.7	2081.3	2128.0	2147.7
37.5°	1941.0	1955.8	1997.6	2044.4	2059.1
40°	1845.1	1859.9	1904.1	1955.8	1973.0
42.5°	1741.8	1763.9	1810.7	1862.3	1882.0
45°	1643.4	1665.5	1714.7	1766.4	1786.1
47.5°	1542.5	1564.6	1621.2	1665.5	1687.6
50°	1441.6	1468.7	1522.8	1569.6	1586.8
52.5°	1335.9	1362.9	1419.5	1466.2	1478.5
55°	1235.0	1259.6	1318.6	1367.8	1385.1
57.5°	1131.7	1158.7	1215.3	1264.5	1269.4
60°	1023.4	1052.9	1114.4	1153.8	1166.1
62.5°	927.5	952.1	1018.5	1050.5	1057.9
65°	824.1	848.7	905.3	944.7	959.5
67.5°	713.4	747.9	806.9	846.3	856.1
70°	610.1	651.9	706.1	747.9	755.3
72.5°	506.8	551.1	612.6	647.0	654.4
75°	403.5	457.6	516.6	543.7	556.0
77.5°	312.4	364.1	423.1	447.7	445.3
80°	226.3	278.0	324.7	324.7	322.3
82.5°	145.1	196.8	221.4	214.0	209.1
85°	78.7	118.1	115.6	105.8	103.3
87.5°	32.0	39.4	29.5	22.1	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)