

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P#

Luminaire Tested: 22D3X-LP-30-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 22D3X-LP-30-L850.ies
Description: 2x2 D3X-LP AT 3000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

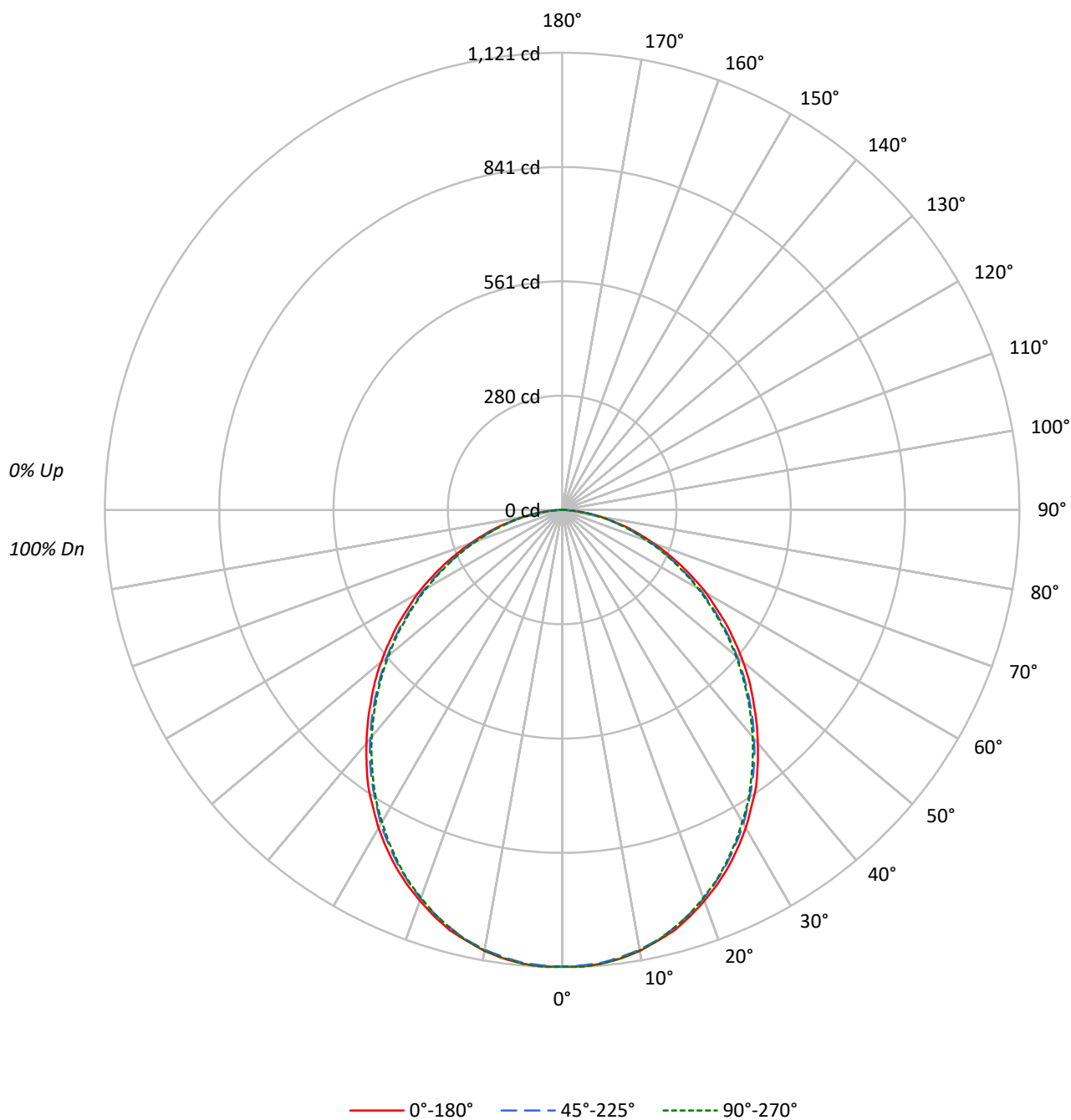
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2798.6 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 24.6
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: 24 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	102	99	95	98	95	92		94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48
8	62	49	40	34	60	48	40	34	47	39	34		45	39	34		44
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3014	3014	3014
5°	3016	3010	3016
10°	2999	2990	2996
15°	2971	2955	2955
20°	2920	2904	2897
25°	2865	2838	2828
30°	2797	2762	2745
35°	2723	2671	2653
40°	2621	2570	2551
45°	2522	2462	2441
50°	2424	2344	2326
55°	2313	2229	2198
60°	2197	2101	2071
65°	2046	1946	1925
70°	1869	1799	1755
75°	1705	1600	1612
80°	1469	1382	1401
85°	1136	1102	1034

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2522 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	3.8
10°-20°	299.1	10.7
20°-30°	440.5	15.7
30°-40°	509.6	18.2
40°-50°	501.0	17.9
50°-60°	427.0	15.3
60°-70°	305.9	10.9
70°-80°	166.2	5.9
80°-90°	43.4	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°	845.5	30.2
0°-40°	1355.1	48.4
0°-60°	2283.1	81.6
0°-90°	2798.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2798.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1117	1114	1114	1114	1117	106
15°	1066	1062	1061	1060	1061	300
25°	965	960	956	954	953	444
35°	829	822	813	809	808	517
45°	663	658	647	641	641	512
55°	493	484	475	470	468	440
65°	321	315	306	302	302	318
75°	164	158	154	152	155	173
85°	37	37	36	35	34	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.9	1119.9	1119.9	1119.9	1119.9
2.5°	1119.9	1118.8	1117.7	1118.8	1121.0
5°	1116.6	1114.3	1114.3	1114.3	1116.6
7.5°	1108.8	1106.5	1105.4	1106.5	1107.7
10°	1097.6	1095.4	1094.3	1095.4	1096.5
12.5°	1082.0	1080.9	1079.8	1079.8	1080.9
15°	1066.4	1061.9	1060.8	1059.7	1060.8
17.5°	1044.1	1043.0	1038.5	1038.5	1038.5
20°	1019.5	1017.3	1014.0	1011.7	1011.7
22.5°	993.9	991.6	986.1	983.8	984.9
25°	964.9	960.4	955.9	953.7	952.6
27.5°	933.6	929.2	922.5	919.1	919.1
30°	900.2	896.8	889.0	884.6	883.4
32.5°	863.4	861.1	850.0	847.7	847.7
35°	828.8	822.1	813.2	808.7	807.6
37.5°	787.5	783.1	774.1	768.6	767.4
40°	746.2	740.7	731.7	727.3	726.2
42.5°	705.0	699.4	690.5	684.9	683.8
45°	662.6	658.1	647.0	641.4	641.4
47.5°	622.4	613.5	603.5	599.0	597.9
50°	578.9	571.1	560.0	555.5	555.5
52.5°	535.4	529.8	517.6	515.3	513.1
55°	493.0	484.1	475.2	469.6	468.5
57.5°	447.3	439.5	430.6	426.1	426.1
60°	408.3	398.2	390.4	384.8	384.8
62.5°	363.6	354.7	346.9	343.6	342.4
65°	321.3	314.6	305.6	302.3	302.3
67.5°	278.9	273.3	265.5	262.1	263.2
70°	237.6	234.2	228.7	224.2	223.1
72.5°	199.7	195.2	189.6	188.5	188.5
75°	164.0	158.4	153.9	151.7	155.0
77.5°	127.2	123.8	121.6	120.5	121.6
80°	94.8	90.4	89.2	90.4	90.4
82.5°	65.8	63.6	62.5	62.5	62.5
85°	36.8	36.8	35.7	34.6	33.5
87.5°	14.5	14.5	15.6	15.6	16.7
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	14.8	16.4	15.2	16.7	17.0	14.6	16.2	14.9	16.5	16.8
	3H	16.5	17.9	16.8	18.2	18.6	16.2	17.6	16.6	17.9	18.3
	4H	17.1	18.4	17.5	18.8	19.1	16.8	18.1	17.2	18.5	18.8
	6H	17.5	18.7	17.9	19.1	19.5	17.2	18.4	17.6	18.8	19.2
	8H	17.6	18.8	18.0	19.2	19.6	17.3	18.5	17.7	18.9	19.3
	12H	17.7	18.8	18.1	19.2	19.6	17.4	18.5	17.8	18.9	19.3
4H	2H	15.4	16.7	15.7	17.0	17.4	15.2	16.5	15.6	16.9	17.2
	3H	17.2	18.3	17.6	18.7	19.1	17.0	18.1	17.4	18.5	18.9
	4H	17.9	19.0	18.4	19.4	19.8	17.7	18.7	18.1	19.1	19.6
	6H	18.5	19.4	18.9	19.8	20.3	18.2	19.1	18.7	19.6	20.0
	8H	18.7	19.5	19.1	19.9	20.4	18.4	19.2	18.9	19.7	20.1
	12H	18.8	19.5	19.2	20.0	20.5	18.5	19.3	19.0	19.7	20.2
8H	4H	18.2	19.0	18.7	19.5	19.9	18.0	18.8	18.4	19.2	19.7
	6H	18.8	19.5	19.3	20.0	20.5	18.6	19.3	19.1	19.8	20.3
	8H	19.1	19.7	19.6	20.2	20.7	18.9	19.5	19.4	20.0	20.5
	12H	19.2	19.8	19.8	20.3	20.8	19.0	19.6	19.5	20.1	20.6
12H	4H	18.2	19.0	18.7	19.4	19.9	18.0	18.7	18.5	19.2	19.7
	6H	18.9	19.5	19.4	20.0	20.5	18.7	19.3	19.2	19.7	20.3
	8H	19.2	19.7	19.7	20.2	20.8	18.9	19.5	19.5	20.0	20.5

(END OF REPORT)