

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-35-L927.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-35-L927.ies
Description: 2x2 D3X-LP AT 3500LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

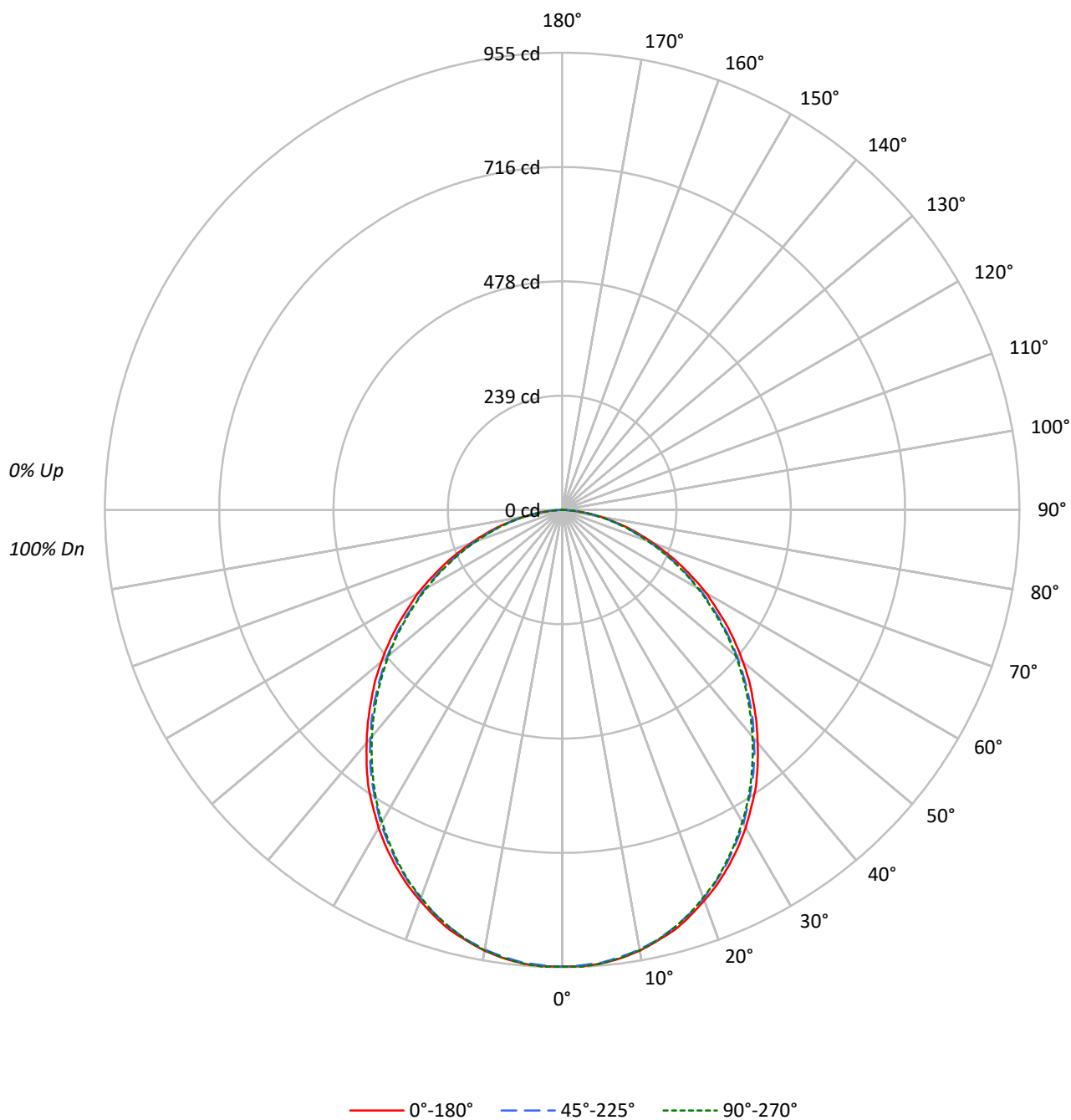
Lumens per Lamp: N/A
Luminaire Lumens: 2383.1 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-35-L927.ies

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-35-L927.ies

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°	2566	2566	2566
5°	2568	2563	2568
10°	2554	2546	2551
15°	2530	2517	2517
20°	2486	2473	2467
25°	2439	2417	2409
30°	2382	2352	2338
35°	2318	2275	2259
40°	2232	2189	2172
45°	2147	2097	2079
50°	2064	1996	1980
55°	1970	1898	1871
60°	1871	1789	1764
65°	1742	1657	1639
70°	1592	1532	1495
75°	1451	1363	1372
80°	1251	1178	1192
85°	966	939	880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2147 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-35-L927.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.8
10°-20°	254.7	10.7
20°-30°	375.1	15.7
30°-40°	434.0	18.2
40°-50°	426.6	17.9
50°-60°	363.6	15.3
60°-70°	260.5	10.9
70°-80°	141.5	5.9
80°-90°	36.9	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°	719.9	30.2
0°-40°	1153.9	48.4
0°-60°	1944.1	81.6
0°-90°	2383.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2383.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	951	949	949	949	951	90
15°	908	904	903	902	903	256
25°	822	818	814	812	811	378
35°	706	700	692	689	688	440
45°	564	560	551	546	546	436
55°	420	412	405	400	399	375
65°	274	268	260	257	257	271
75°	140	135	131	129	132	147
85°	31	31	30	29	28	38
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-35-L927.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	953.7	953.7	953.7	953.7	953.7
2.5°	953.7	952.7	951.8	952.7	954.6
5°	950.8	948.9	948.9	948.9	950.8
7.5°	944.2	942.3	941.3	942.3	943.2
10°	934.7	932.8	931.8	932.8	933.7
12.5°	921.4	920.4	919.5	919.5	920.4
15°	908.1	904.3	903.3	902.4	903.3
17.5°	889.1	888.1	884.3	884.3	884.3
20°	868.2	866.3	863.4	861.5	861.5
22.5°	846.3	844.4	839.7	837.8	838.7
25°	821.6	817.8	814.0	812.1	811.2
27.5°	795.0	791.2	785.5	782.7	782.7
30°	766.5	763.7	757.0	753.2	752.3
32.5°	735.2	733.3	723.8	721.9	721.9
35°	705.7	700.0	692.4	688.6	687.7
37.5°	670.6	666.8	659.2	654.4	653.5
40°	635.5	630.7	623.1	619.3	618.4
42.5°	600.3	595.6	588.0	583.2	582.3
45°	564.2	560.4	550.9	546.2	546.2
47.5°	530.0	522.4	513.9	510.1	509.1
50°	493.0	486.3	476.8	473.0	473.0
52.5°	455.9	451.2	440.7	438.8	436.9
55°	419.8	412.2	404.6	399.9	398.9
57.5°	380.9	374.2	366.6	362.8	362.8
60°	347.6	339.1	332.4	327.7	327.7
62.5°	309.7	302.1	295.4	292.6	291.6
65°	273.6	267.9	260.3	257.4	257.4
67.5°	237.5	232.7	226.1	223.2	224.2
70°	202.3	199.5	194.7	190.9	190.0
72.5°	170.0	166.2	161.5	160.5	160.5
75°	139.6	134.9	131.1	129.2	132.0
77.5°	108.3	105.4	103.5	102.6	103.5
80°	80.7	76.9	76.0	76.9	76.9
82.5°	56.0	54.1	53.2	53.2	53.2
85°	31.3	31.3	30.4	29.4	28.5
87.5°	12.3	12.3	13.3	13.3	14.2
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P#

CATALOG NUMBER: 22D3X-LP-35-L927.ies

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	14.3	15.8	14.6	16.2	16.5	14.0	15.6	14.4	15.9	16.2
	3H	15.9	17.3	16.3	17.7	18.0	15.6	17.1	16.0	17.4	17.7
	4H	16.5	17.9	16.9	18.2	18.6	16.2	17.6	16.6	17.9	18.3
	6H	16.9	18.2	17.3	18.5	18.9	16.6	17.9	17.0	18.2	18.6
	8H	17.1	18.2	17.5	18.6	19.0	16.8	18.0	17.2	18.3	18.7
	12H	17.1	18.3	17.6	18.7	19.1	16.8	18.0	17.3	18.4	18.8
4H	2H	14.8	16.1	15.2	16.5	16.9	14.6	15.9	15.0	16.3	16.7
	3H	16.7	17.8	17.1	18.2	18.6	16.4	17.6	16.8	18.0	18.4
	4H	17.4	18.4	17.8	18.8	19.3	17.1	18.1	17.6	18.6	19.0
	6H	17.9	18.8	18.4	19.2	19.7	17.7	18.6	18.1	19.0	19.5
	8H	18.1	18.9	18.6	19.4	19.8	17.8	18.7	18.3	19.1	19.6
	12H	18.2	19.0	18.7	19.4	19.9	17.9	18.7	18.4	19.2	19.6
8H	4H	17.6	18.5	18.1	18.9	19.4	17.4	18.2	17.9	18.7	19.1
	6H	18.3	19.0	18.8	19.5	19.9	18.1	18.7	18.5	19.2	19.7
	8H	18.5	19.1	19.0	19.6	20.1	18.3	18.9	18.8	19.4	19.9
	12H	18.7	19.2	19.2	19.7	20.3	18.5	19.0	19.0	19.5	20.1
12H	4H	17.7	18.4	18.1	18.9	19.3	17.4	18.2	17.9	18.6	19.1
	6H	18.3	18.9	18.8	19.4	19.9	18.1	18.7	18.6	19.2	19.7
	8H	18.6	19.1	19.1	19.6	20.2	18.4	18.9	18.9	19.4	20.0



(END OF REPORT)