

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: CORELITE

Report Number: P601143

Luminaire Tested: 22D3X-LP-80-L930

Issue Date: 10/5/2023

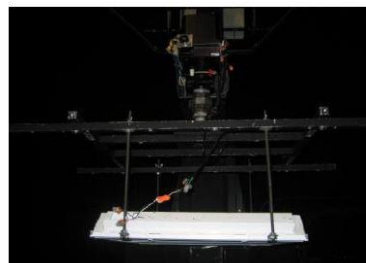
Test Information

Test Method: LM-79-2019
Report Number: P601143
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-80-L930
Description: 2x2 D3X-LP AT 8000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

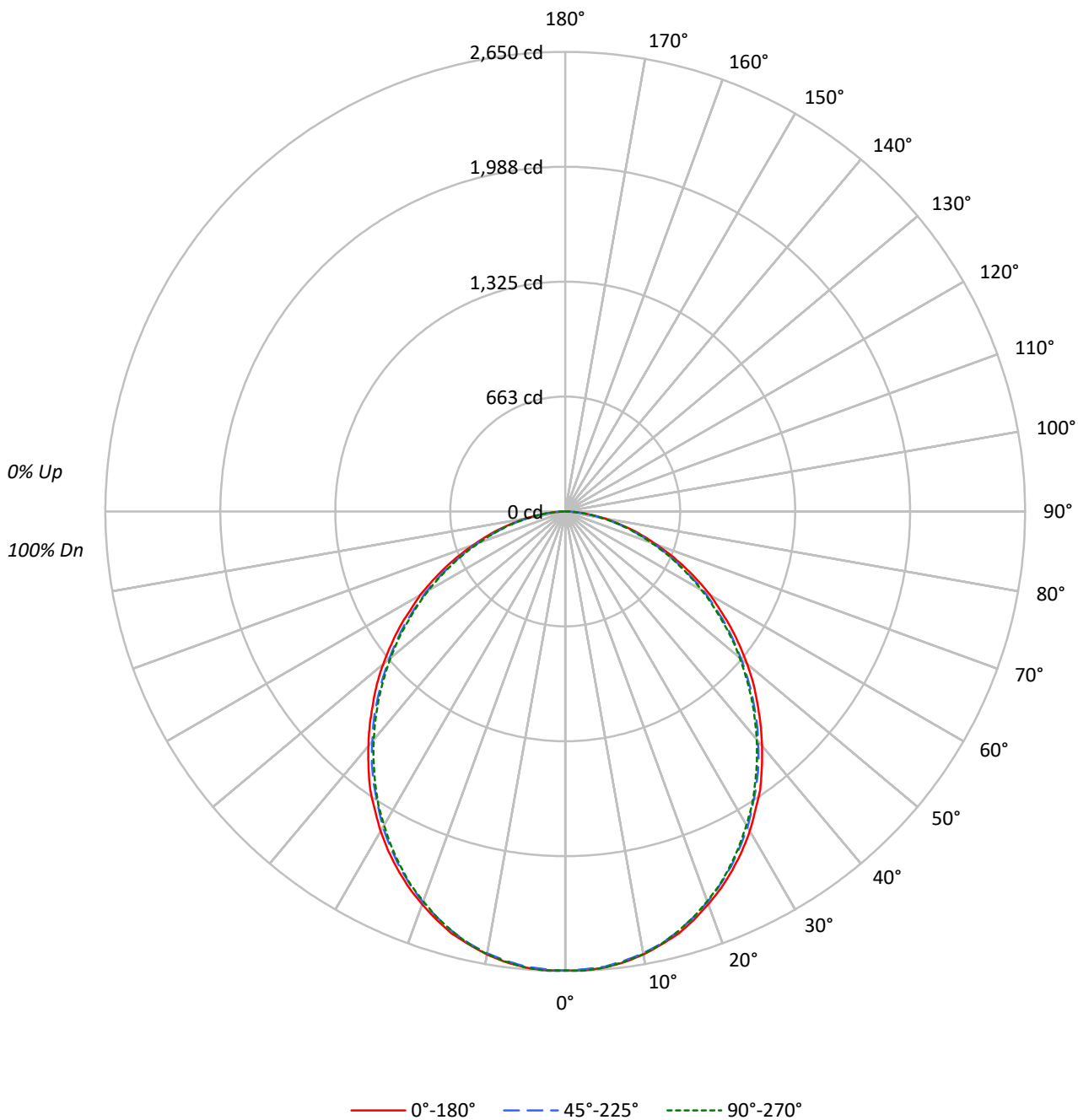
Lumens per Lamp: N/A
Luminaire Lumens: 6615.0 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 73.4
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: P601143
CATALOG NUMBER: 22D3X-LP-80-L930

Luminous Intensity Polar Plot





TEST NUMBER: P601143
 CATALOG NUMBER: 22D3X-LP-80-L930

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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7124	7124	7124
5°	7129	7115	7129
10°	7089	7068	7082
15°	7022	6985	6985
20°	6901	6863	6848
25°	6772	6709	6686
30°	6611	6530	6489
35°	6435	6314	6271
40°	6196	6076	6029
45°	5960	5820	5770
50°	5729	5541	5497
55°	5468	5270	5195
60°	5194	4966	4895
65°	4835	4600	4550
70°	4419	4253	4149
75°	4030	3784	3811
80°	3473	3268	3310
85°	2686	2606	2442

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 5960 cd/sqm



TEST NUMBER: P601143
 CATALOG NUMBER: 22D3X-LP-80-L930

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	250.1	3.8
10°-20°	707.0	10.7
20°-30°	1041.3	15.7
30°-40°	1204.6	18.2
40°-50°	1184.3	17.9
50°-60°	1009.3	15.3
60°-70°	723.2	10.9
70°-80°	392.8	5.9
80°-90°	102.5	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°	1998.4	30.2
0°-40°	3203.0	48.4
0°-60°	5396.6	81.6
0°-90°	6615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2647	2647	2647	2647	2647	
5°	2639	2634	2634	2634	2639	250
15°	2521	2510	2507	2505	2507	709
25°	2281	2270	2260	2254	2252	1050
35°	1959	1943	1922	1912	1909	1222
45°	1566	1556	1529	1516	1516	1210
55°	1165	1144	1123	1110	1107	1041
65°	759	744	722	714	714	752
75°	388	374	364	359	366	409
85°	87	87	84	82	79	106
90°	0	0	0	0	0	



TEST NUMBER: P601143
 CATALOG NUMBER: 22D3X-LP-80-L930

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2647.2	2647.2	2647.2	2647.2	2647.2
2.5°	2647.2	2644.5	2641.9	2644.5	2649.8
5°	2639.2	2634.0	2634.0	2634.0	2639.2
7.5°	2620.8	2615.5	2612.9	2615.5	2618.2
10°	2594.4	2589.2	2586.5	2589.2	2591.8
12.5°	2557.5	2554.9	2552.2	2552.2	2554.9
15°	2520.6	2510.1	2507.4	2504.8	2507.4
17.5°	2467.9	2465.2	2454.7	2454.7	2454.7
20°	2409.9	2404.6	2396.7	2391.4	2391.4
22.5°	2349.2	2343.9	2330.8	2325.5	2328.1
25°	2280.7	2270.1	2259.6	2254.3	2251.7
27.5°	2206.8	2196.3	2180.5	2172.6	2172.6
30°	2127.7	2119.8	2101.4	2090.8	2088.2
32.5°	2040.7	2035.5	2009.1	2003.8	2003.8
35°	1959.0	1943.2	1922.1	1911.5	1908.9
37.5°	1861.4	1850.9	1829.8	1816.6	1814.0
40°	1763.9	1750.7	1729.6	1719.1	1716.4
42.5°	1666.3	1653.2	1632.1	1618.9	1616.2
45°	1566.1	1555.6	1529.2	1516.1	1516.1
47.5°	1471.2	1450.1	1426.4	1415.9	1413.2
50°	1368.4	1349.9	1323.6	1313.0	1313.0
52.5°	1265.6	1252.4	1223.4	1218.1	1212.8
55°	1165.4	1144.3	1123.2	1110.0	1107.4
57.5°	1057.3	1038.8	1017.7	1007.2	1007.2
60°	965.0	941.3	922.8	909.6	909.6
62.5°	859.5	838.4	820.0	812.1	809.4
65°	759.3	743.5	722.4	714.5	714.5
67.5°	659.2	646.0	627.5	619.6	622.2
70°	561.6	553.7	540.5	530.0	527.3
72.5°	472.0	461.4	448.2	445.6	445.6
75°	387.6	374.4	363.9	358.6	366.5
77.5°	300.6	292.7	287.4	284.8	287.4
80°	224.1	213.6	210.9	213.6	213.6
82.5°	155.6	150.3	147.7	147.7	147.7
85°	87.0	87.0	84.4	81.7	79.1
87.5°	34.3	34.3	36.9	36.9	39.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)