

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: P995569

Luminaire Tested: 22D3X-LP-WD-80-L830.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995569
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: CORELITE
Catalog Number: 22D3X-LP-WD-80-L830.ies
Description: 2x2 D3X-LP AT 8000LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

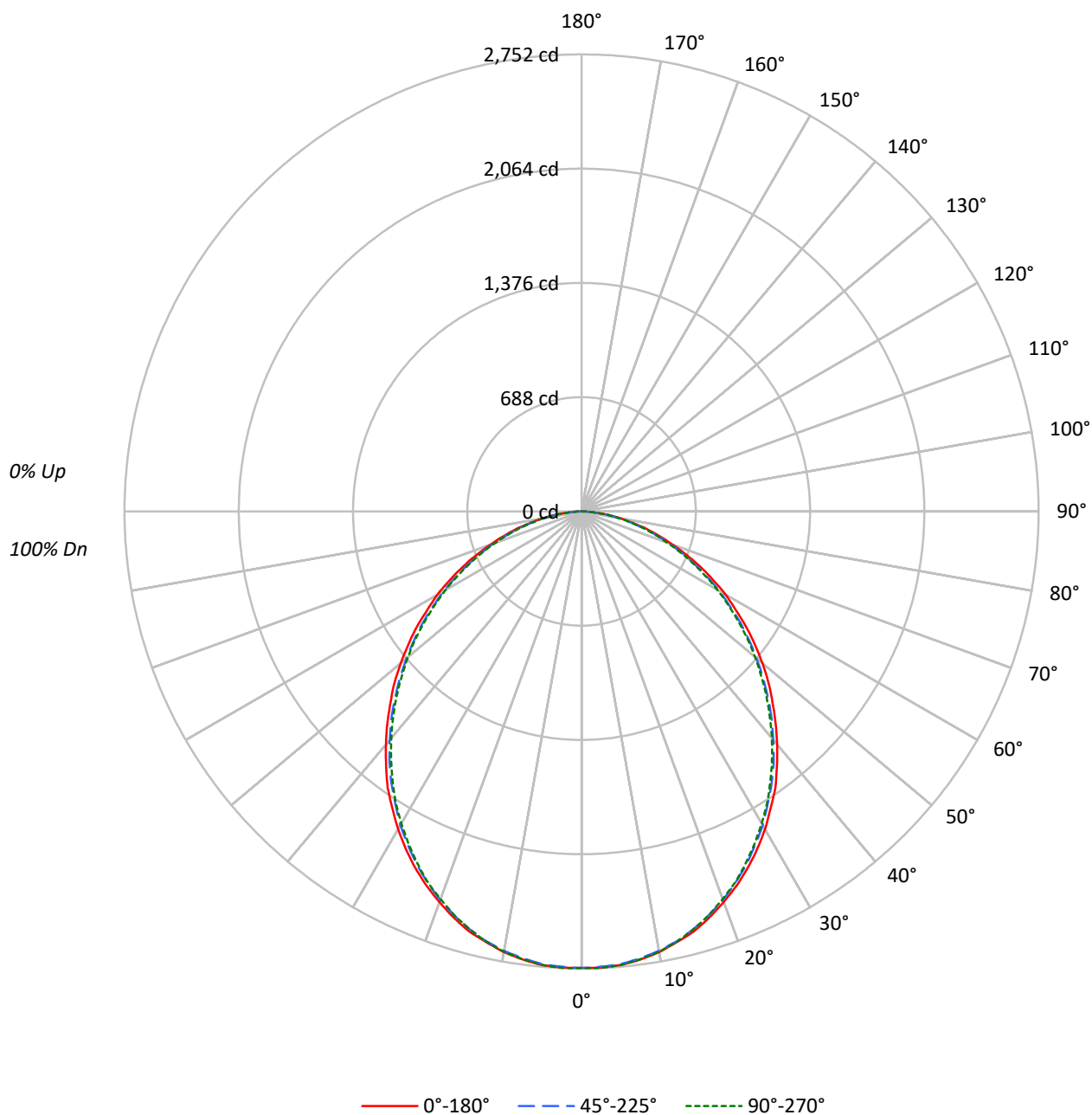
Lumens per Lamp: N/A
Luminaire Lumens: 6869.7 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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

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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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7398	7398	7398
5°	7404	7389	7404
10°	7362	7340	7355
15°	7293	7254	7254
20°	7167	7128	7112
25°	7032	6967	6943
30°	6866	6781	6738
35°	6683	6557	6512
40°	6435	6310	6262
45°	6189	6044	5992
50°	5949	5754	5709
55°	5678	5472	5395
60°	5394	5158	5084
65°	5021	4777	4725
70°	4589	4416	4308
75°	4185	3929	3957
80°	3606	3395	3437
85°	2791	2705	2535

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6189 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.7	3.8
10°-20°	734.3	10.7
20°-30°	1081.4	15.7
30°-40°	1251.0	18.2
40°-50°	1229.9	17.9
50°-60°	1048.1	15.3
60°-70°	751.0	10.9
70°-80°	407.9	5.9
80°-90°	106.4	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°	2075.4	30.2
0°-40°	3326.4	48.4
0°-60°	5604.4	81.6
0°-90°	6869.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6869.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2749	2749	2749	2749	2749	
5°	2741	2735	2735	2735	2741	260
15°	2618	2607	2604	2601	2604	737
25°	2368	2358	2347	2341	2338	1090
35°	2034	2018	1996	1985	1982	1269
45°	1626	1616	1588	1574	1574	1256
55°	1210	1188	1166	1153	1150	1081
65°	789	772	750	742	742	781
75°	402	389	378	372	381	425
85°	90	90	88	85	82	110
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2749.1	2749.1	2749.1	2749.1	2749.1
2.5°	2749.1	2746.3	2743.6	2746.3	2751.8
5°	2740.9	2735.4	2735.4	2735.4	2740.9
7.5°	2721.7	2716.2	2713.5	2716.2	2719.0
10°	2694.3	2688.8	2686.1	2688.8	2691.6
12.5°	2656.0	2653.2	2650.5	2650.5	2653.2
15°	2617.7	2606.7	2604.0	2601.2	2604.0
17.5°	2562.9	2560.2	2549.2	2549.2	2549.2
20°	2502.7	2497.2	2489.0	2483.5	2483.5
22.5°	2439.7	2434.2	2420.5	2415.0	2417.8
25°	2368.5	2357.5	2346.6	2341.1	2338.4
27.5°	2291.8	2280.9	2264.4	2256.2	2256.2
30°	2209.7	2201.5	2182.3	2171.3	2168.6
32.5°	2119.3	2113.8	2086.5	2081.0	2081.0
35°	2034.4	2018.0	1996.1	1985.1	1982.4
37.5°	1933.1	1922.2	1900.3	1886.6	1883.8
40°	1831.8	1818.1	1796.2	1785.3	1782.5
42.5°	1730.5	1716.8	1694.9	1681.2	1678.5
45°	1626.4	1615.5	1588.1	1574.4	1574.4
47.5°	1527.9	1506.0	1481.3	1470.4	1467.6
50°	1421.1	1401.9	1374.5	1363.6	1363.6
52.5°	1314.3	1300.6	1270.5	1265.0	1259.5
55°	1210.3	1188.3	1166.4	1152.8	1150.0
57.5°	1098.0	1078.8	1056.9	1046.0	1046.0
60°	1002.2	977.5	958.3	944.7	944.7
62.5°	892.6	870.7	851.6	843.3	840.6
65°	788.6	772.2	750.2	742.0	742.0
67.5°	684.5	670.8	651.7	643.5	646.2
70°	583.2	575.0	561.3	550.4	547.6
72.5°	490.1	479.2	465.5	462.7	462.7
75°	402.5	388.8	377.9	372.4	380.6
77.5°	312.1	303.9	298.5	295.7	298.5
80°	232.7	221.8	219.1	221.8	221.8
82.5°	161.5	156.1	153.3	153.3	153.3
85°	90.4	90.4	87.6	84.9	82.1
87.5°	35.6	35.6	38.3	38.3	41.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)