

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: P995653

Luminaire Tested: 24D3X-LP-WD-80-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995653
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-80-L850.ies
Description: 2x4 D3X-LP AT 8000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

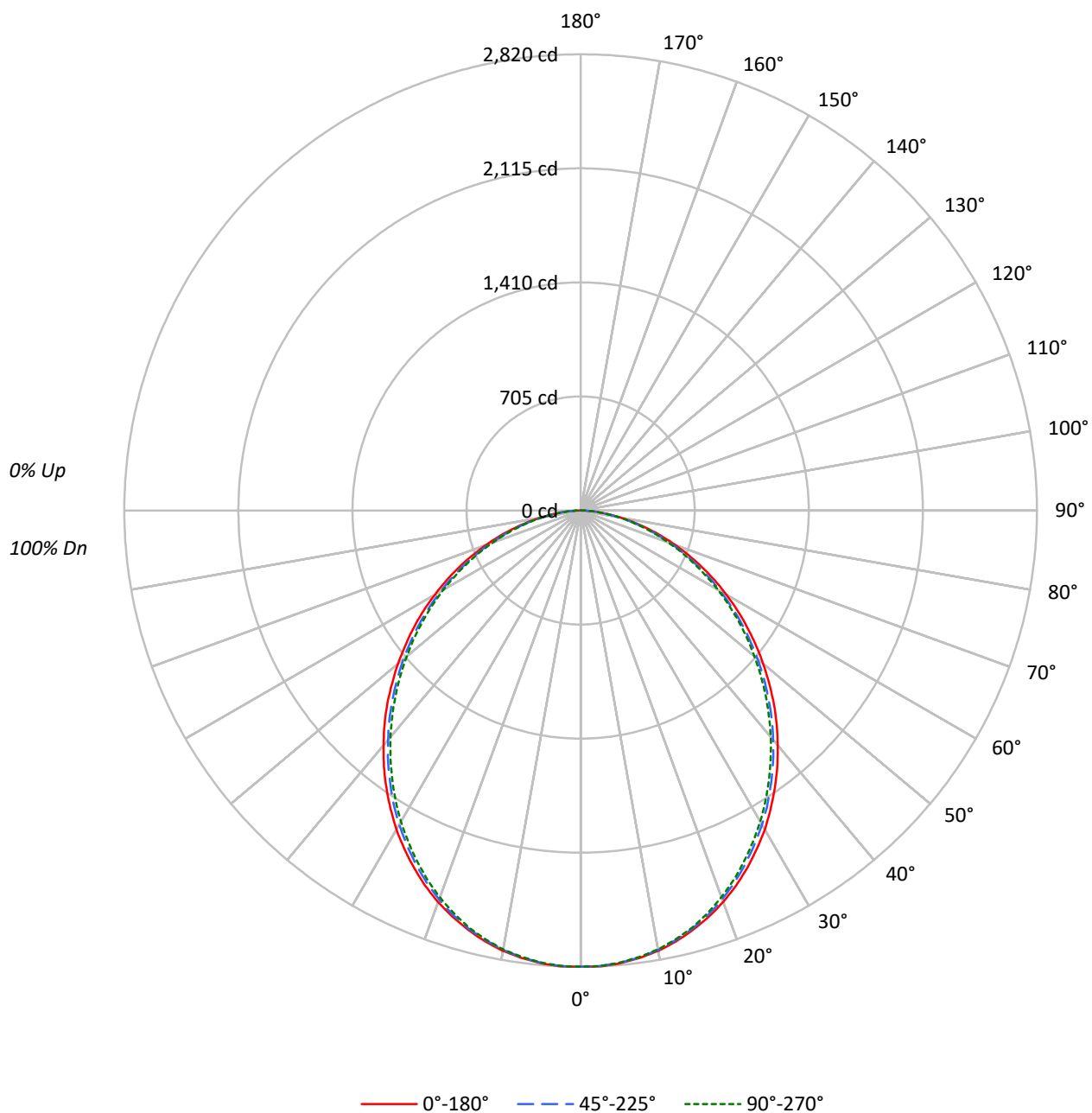
Lumens per Lamp: N/A
Luminaire Lumens: 7110.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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: 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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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°	3794	3794	3794
5°	3794	3791	3787
10°	3776	3767	3764
15°	3739	3725	3716
20°	3688	3663	3642
25°	3618	3578	3550
30°	3537	3483	3450
35°	3437	3371	3334
40°	3328	3251	3211
45°	3214	3123	3077
50°	3083	2988	2935
55°	2947	2844	2791
60°	2795	2684	2634
65°	2631	2508	2457
70°	2448	2317	2259
75°	2221	2097	2062
80°	1925	1821	1831
85°	1587	1567	1463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.4	3.7
10°-20°	753.8	10.6
20°-30°	1110.9	15.6
30°-40°	1286.0	18.1
40°-50°	1269.7	17.9
50°-60°	1087.5	15.3
60°-70°	786.3	11.1
70°-80°	433.4	6.1
80°-90°	116.7	1.6
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°	2131.1	30.0
0°-40°	3417.1	48.1
0°-60°	5774.3	81.2
0°-90°	7110.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7110.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2820	2820	2820	2820	2820	
5°	2809	2808	2807	2804	2804	267
15°	2684	2681	2674	2670	2668	757
25°	2437	2430	2410	2398	2392	1122
35°	2092	2079	2052	2035	2030	1308
45°	1689	1666	1641	1625	1617	1302
55°	1256	1232	1212	1195	1190	1123
65°	826	808	788	776	772	819
75°	427	414	403	402	397	453
85°	103	103	102	95	95	121
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2820.1	2820.1	2820.1	2820.1	2820.1
2.5°	2820.1	2820.1	2817.4	2817.4	2817.4
5°	2809.4	2808.1	2806.7	2804.1	2804.1
7.5°	2789.4	2789.4	2785.4	2785.4	2782.7
10°	2764.0	2761.3	2757.3	2757.3	2754.7
12.5°	2727.9	2725.3	2719.9	2718.6	2714.6
15°	2683.9	2681.2	2674.5	2670.5	2667.9
17.5°	2633.1	2629.1	2621.1	2614.5	2609.1
20°	2575.7	2570.4	2558.4	2550.4	2543.7
22.5°	2510.3	2505.0	2487.6	2478.3	2471.6
25°	2436.9	2430.2	2410.2	2398.1	2391.5
27.5°	2358.1	2350.1	2327.4	2314.0	2307.3
30°	2276.6	2264.6	2241.9	2225.9	2220.5
32.5°	2185.8	2173.8	2151.1	2132.4	2127.1
35°	2092.4	2079.0	2052.3	2034.9	2029.6
37.5°	1996.2	1978.9	1954.8	1937.5	1929.5
40°	1894.7	1877.4	1850.7	1832.0	1828.0
42.5°	1793.3	1771.9	1749.2	1730.5	1722.5
45°	1689.1	1666.4	1641.0	1625.0	1617.0
47.5°	1579.6	1558.3	1535.6	1516.9	1510.2
50°	1472.8	1450.1	1427.4	1410.0	1402.0
52.5°	1363.3	1340.6	1319.2	1304.6	1296.5
55°	1256.5	1232.5	1212.4	1195.1	1189.7
57.5°	1148.3	1127.0	1104.3	1088.2	1084.2
60°	1038.8	1020.1	997.4	982.8	978.8
62.5°	933.4	914.7	893.3	878.6	871.9
65°	826.5	807.8	787.8	775.8	771.8
67.5°	722.4	705.0	687.7	675.6	673.0
70°	622.2	604.9	588.9	578.2	574.2
72.5°	522.1	510.1	494.0	487.4	483.4
75°	427.3	413.9	403.3	401.9	396.6
77.5°	335.2	333.8	316.5	313.8	313.8
80°	248.4	244.4	235.0	232.3	236.3
82.5°	170.9	168.2	162.9	161.6	160.2
85°	102.8	102.8	101.5	94.8	94.8
87.5°	46.7	45.4	44.1	45.4	49.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)