

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: P995666

Luminaire Tested: 24D3X-LP-WD-90-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995666
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-90-L940.ies
Description: 2x4 D3X-LP AT 9000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

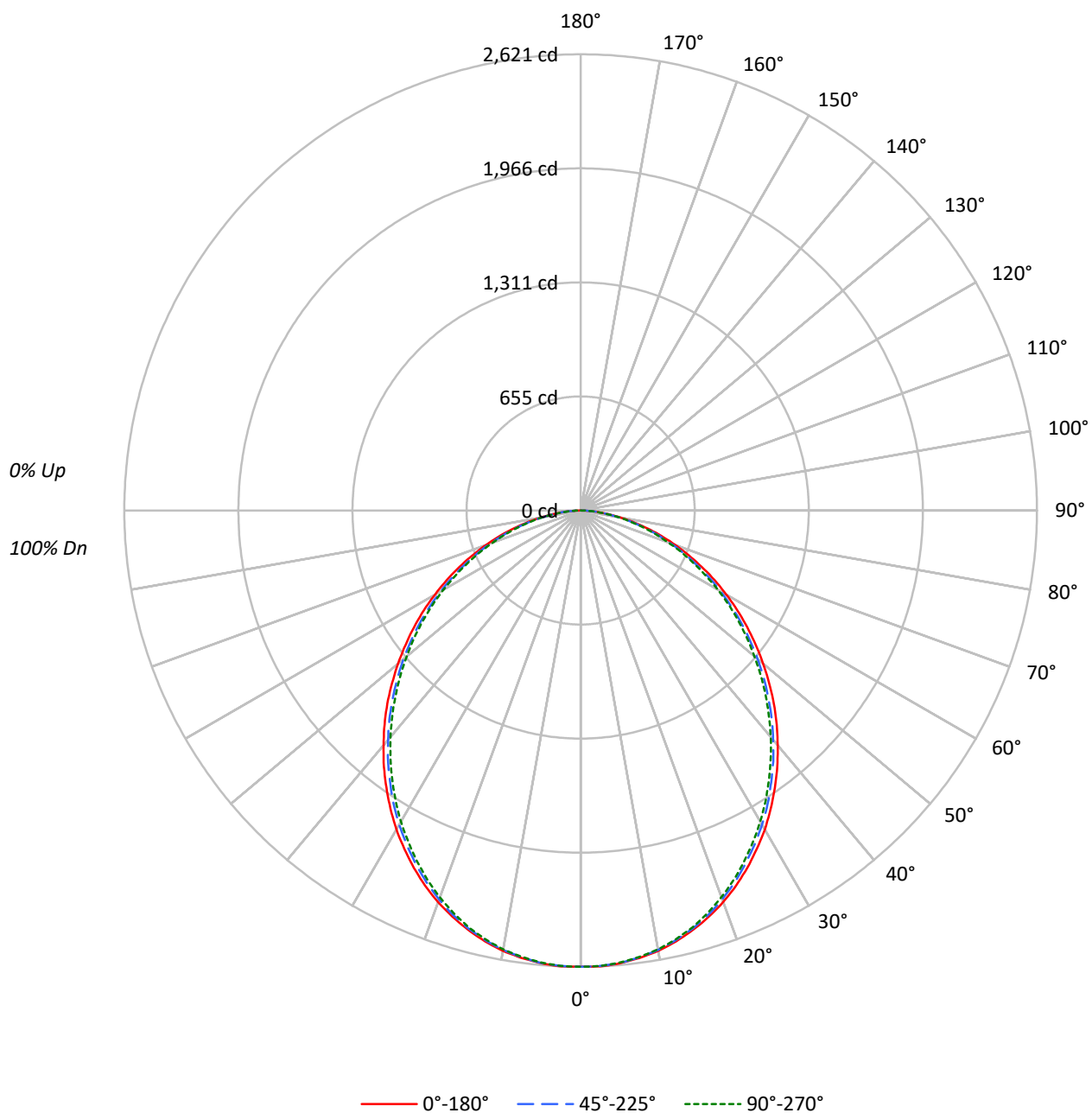
Lumens per Lamp: N/A
Luminaire Lumens: 6609.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	3527	3527	3527
5°	3527	3524	3520
10°	3510	3502	3498
15°	3475	3463	3454
20°	3428	3405	3385
25°	3363	3326	3300
30°	3288	3238	3207
35°	3195	3133	3099
40°	3093	3022	2984
45°	2988	2903	2860
50°	2866	2777	2728
55°	2740	2644	2594
60°	2598	2495	2448
65°	2446	2331	2284
70°	2275	2153	2100
75°	2065	1948	1916
80°	1789	1692	1702
85°	1476	1456	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	3.7
10°-20°	700.7	10.6
20°-30°	1032.6	15.6
30°-40°	1195.4	18.1
40°-50°	1180.2	17.9
50°-60°	1010.9	15.3
60°-70°	730.8	11.1
70°-80°	402.9	6.1
80°-90°	108.5	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°	1980.9	30.0
0°-40°	3176.3	48.1
0°-60°	5367.4	81.2
0°-90°	6609.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6609.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2621	2621	2621	2621	2621	
5°	2611	2610	2609	2606	2606	248
15°	2495	2492	2486	2482	2480	703
25°	2265	2259	2240	2229	2223	1043
35°	1945	1932	1908	1892	1887	1216
45°	1570	1549	1525	1510	1503	1210
55°	1168	1146	1127	1111	1106	1044
65°	768	751	732	721	717	762
75°	397	385	375	374	369	421
85°	96	96	94	88	88	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2621.4	2621.4	2621.4	2621.4	2621.4
2.5°	2621.4	2621.4	2618.9	2618.9	2618.9
5°	2611.4	2610.2	2609.0	2606.5	2606.5
7.5°	2592.8	2592.8	2589.1	2589.1	2586.6
10°	2569.2	2566.8	2563.0	2563.0	2560.6
12.5°	2535.7	2533.2	2528.3	2527.0	2523.3
15°	2494.8	2492.3	2486.1	2482.4	2479.9
17.5°	2447.6	2443.9	2436.4	2430.2	2425.3
20°	2394.2	2389.3	2378.1	2370.7	2364.4
22.5°	2333.4	2328.5	2312.3	2303.6	2297.4
25°	2265.2	2258.9	2240.3	2229.2	2223.0
27.5°	2191.9	2184.5	2163.4	2151.0	2144.8
30°	2116.2	2105.0	2083.9	2069.0	2064.1
32.5°	2031.8	2020.6	1999.5	1982.2	1977.2
35°	1944.9	1932.5	1907.7	1891.6	1886.6
37.5°	1855.6	1839.4	1817.1	1801.0	1793.5
40°	1761.2	1745.1	1720.3	1702.9	1699.2
42.5°	1666.9	1647.0	1625.9	1608.6	1601.1
45°	1570.1	1549.0	1525.4	1510.5	1503.1
47.5°	1468.3	1448.5	1427.4	1410.0	1403.8
50°	1369.0	1347.9	1326.8	1310.7	1303.2
52.5°	1267.2	1246.1	1226.3	1212.6	1205.2
55°	1167.9	1145.6	1127.0	1110.9	1105.9
57.5°	1067.4	1047.6	1026.5	1011.6	1007.8
60°	965.6	948.3	927.2	913.5	909.8
62.5°	867.6	850.2	830.3	816.7	810.5
65°	768.3	750.9	732.3	721.1	717.4
67.5°	671.5	655.3	639.2	628.0	625.6
70°	578.4	562.3	547.4	537.4	533.7
72.5°	485.3	474.1	459.2	453.0	449.3
75°	397.2	384.8	374.8	373.6	368.6
77.5°	311.5	310.3	294.2	291.7	291.7
80°	230.9	227.1	218.4	216.0	219.7
82.5°	158.9	156.4	151.4	150.2	148.9
85°	95.6	95.6	94.3	88.1	88.1
87.5°	43.4	42.2	41.0	42.2	45.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)