

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: P995665

Luminaire Tested: 24D3X-LP-WD-90-L935.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995665
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-L935.ies
Description: 2x4 D3X-LP AT 9000LM 3500K 90CRI
Light Source: -
Ballast/Driver: -

Summary

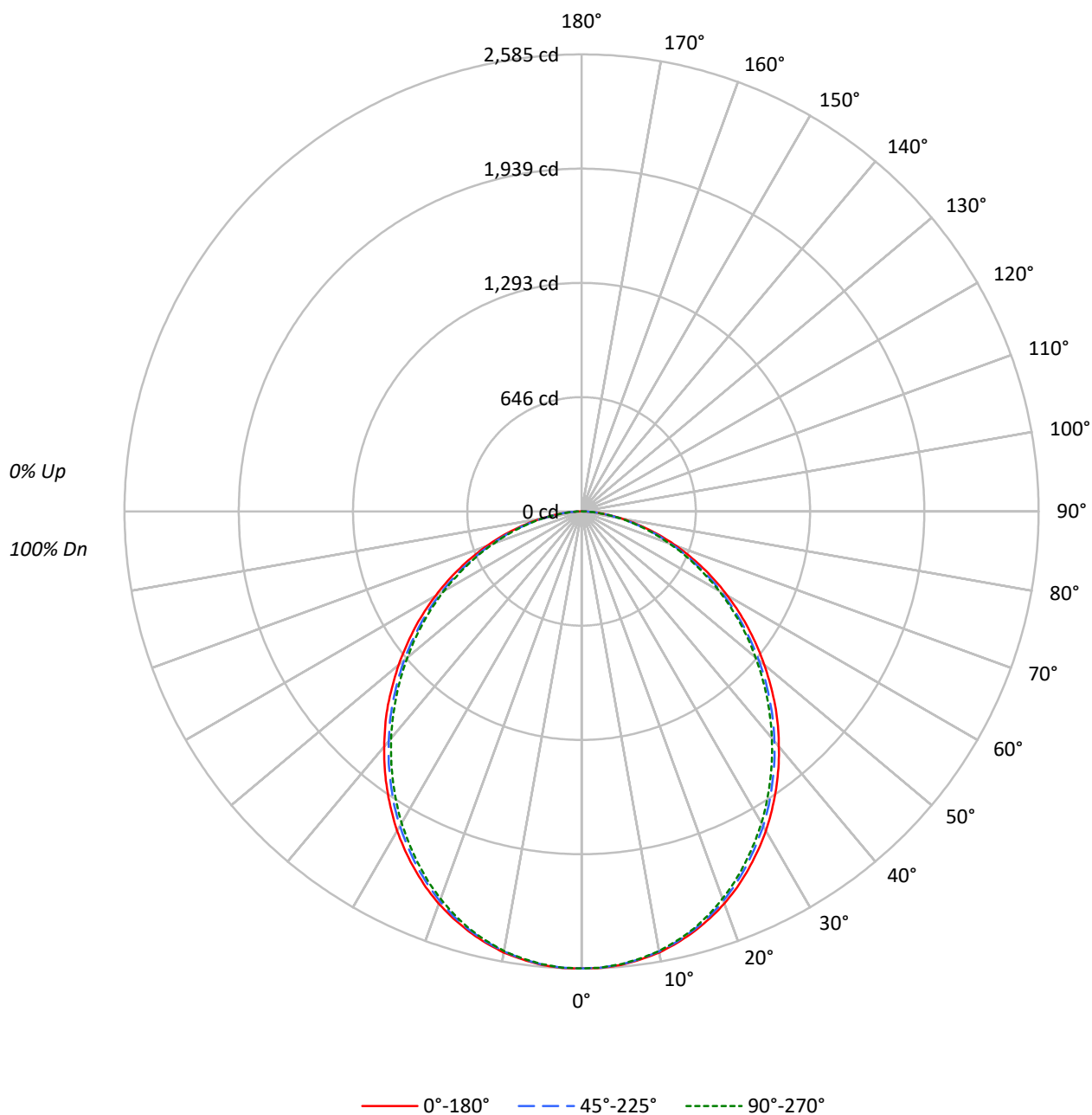
Lumens per Lamp: N/A
Luminaire Lumens: 6516.9 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3478	3478	3478
5°	3478	3474	3471
10°	3461	3453	3449
15°	3426	3414	3406
20°	3380	3357	3338
25°	3316	3279	3254
30°	3242	3192	3162
35°	3150	3089	3055
40°	3050	2979	2943
45°	2946	2862	2820
50°	2825	2738	2690
55°	2701	2607	2558
60°	2562	2460	2414
65°	2412	2299	2252
70°	2244	2123	2070
75°	2036	1921	1890
80°	1764	1669	1678
85°	1454	1436	1342

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2946 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	244.1	3.7
10°-20°	690.9	10.6
20°-30°	1018.1	15.6
30°-40°	1178.6	18.1
40°-50°	1163.6	17.9
50°-60°	996.7	15.3
60°-70°	720.6	11.1
70°-80°	397.2	6.1
80°-90°	107.0	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°	1953.1	30.0
0°-40°	3131.8	48.1
0°-60°	5292.1	81.2
0°-90°	6516.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6516.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2585	2585	2585	2585	2585	
5°	2575	2574	2572	2570	2570	244
15°	2460	2457	2451	2448	2445	693
25°	2233	2227	2209	2198	2192	1028
35°	1918	1905	1881	1865	1860	1199
45°	1548	1527	1504	1489	1482	1193
55°	1152	1130	1111	1095	1090	1029
65°	758	740	722	711	707	751
75°	392	379	370	368	364	416
85°	94	94	93	87	87	111
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2584.6	2584.6	2584.6	2584.6	2584.6
2.5°	2584.6	2584.6	2582.2	2582.2	2582.2
5°	2574.8	2573.6	2572.4	2569.9	2569.9
7.5°	2556.5	2556.5	2552.8	2552.8	2550.3
10°	2533.2	2530.8	2527.1	2527.1	2524.6
12.5°	2500.2	2497.7	2492.8	2491.6	2487.9
15°	2459.8	2457.3	2451.2	2447.5	2445.1
17.5°	2413.3	2409.6	2402.3	2396.1	2391.2
20°	2360.7	2355.8	2344.7	2337.4	2331.3
22.5°	2300.7	2295.8	2279.9	2271.3	2265.2
25°	2233.4	2227.3	2208.9	2197.9	2191.8
27.5°	2161.2	2153.8	2133.0	2120.8	2114.7
30°	2086.5	2075.5	2054.7	2040.0	2035.1
32.5°	2003.3	1992.3	1971.5	1954.4	1949.5
35°	1917.6	1905.4	1880.9	1865.0	1860.1
37.5°	1829.5	1813.6	1791.6	1775.7	1768.3
40°	1736.5	1720.6	1696.1	1679.0	1675.3
42.5°	1643.5	1623.9	1603.1	1586.0	1578.7
45°	1548.1	1527.3	1504.0	1489.3	1482.0
47.5°	1447.7	1428.1	1407.3	1390.2	1384.1
50°	1349.8	1329.0	1308.2	1292.3	1285.0
52.5°	1249.5	1228.7	1209.1	1195.6	1188.3
55°	1151.6	1129.5	1111.2	1095.3	1090.4
57.5°	1052.4	1032.9	1012.1	997.4	993.7
60°	952.1	935.0	914.2	900.7	897.0
62.5°	855.4	838.3	818.7	805.2	799.1
65°	757.5	740.4	722.0	711.0	707.3
67.5°	662.1	646.2	630.2	619.2	616.8
70°	570.3	554.4	539.7	529.9	526.2
72.5°	478.5	467.5	452.8	446.7	443.0
75°	391.6	379.4	369.6	368.4	363.5
77.5°	307.2	305.9	290.0	287.6	287.6
80°	227.6	224.0	215.4	212.9	216.6
82.5°	156.6	154.2	149.3	148.1	146.9
85°	94.2	94.2	93.0	86.9	86.9
87.5°	42.8	41.6	40.4	41.6	45.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)