

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: P995655

Luminaire Tested: 24D3X-LP-WD-80-L930.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995655
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-L930.ies
Description: 2x4 D3X-LP AT 8000LM 3000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

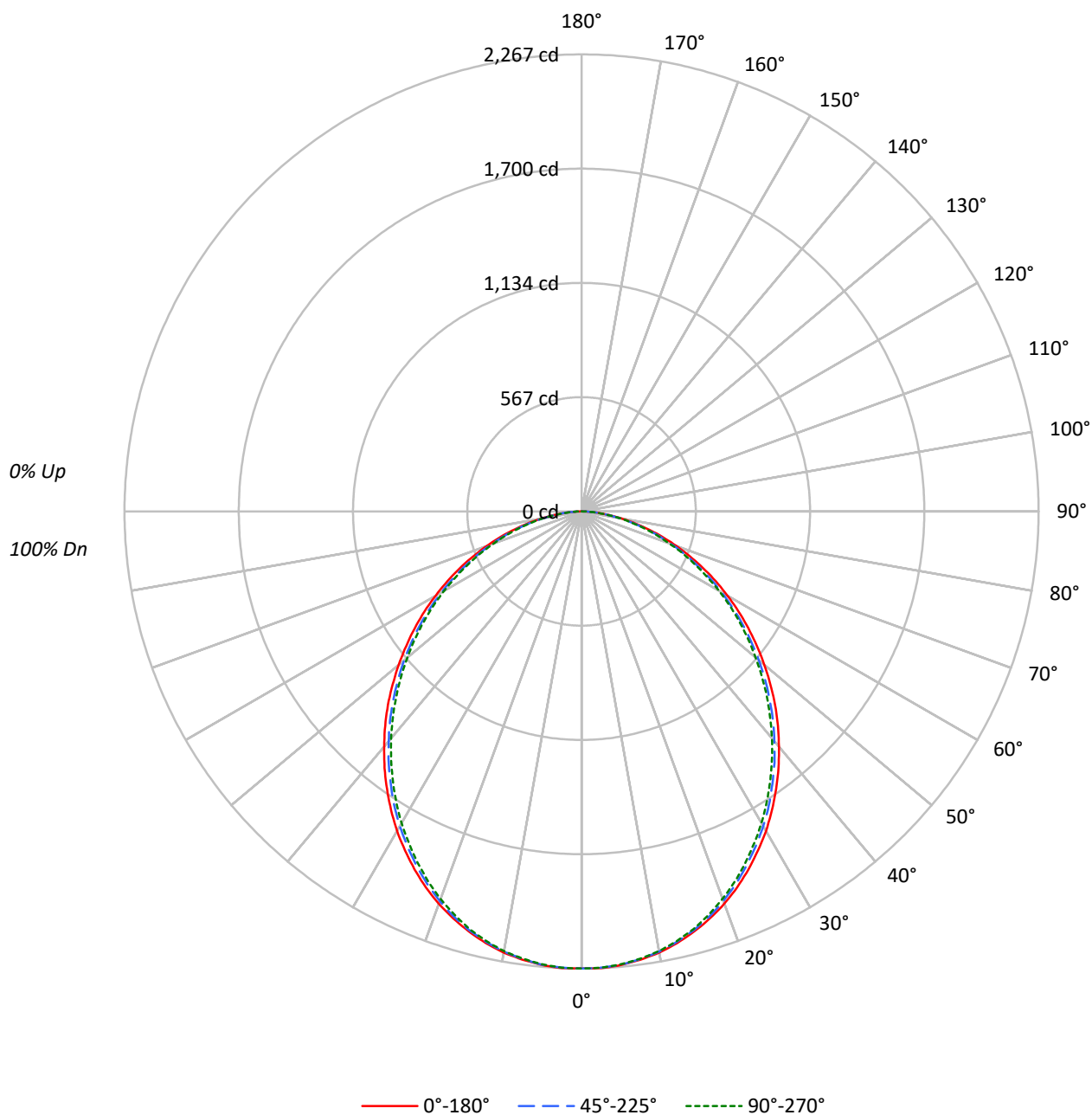
Lumens per Lamp: N/A
Luminaire Lumens: 5716.8 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P995655

CATALOG NUMBER: 24D3X-LP-WD-80-L930.ies

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°	3051	3051	3051
5°	3051	3048	3045
10°	3036	3029	3026
15°	3006	2995	2988
20°	2965	2945	2928
25°	2909	2877	2854
30°	2844	2800	2774
35°	2763	2710	2680
40°	2676	2613	2581
45°	2584	2511	2474
50°	2479	2402	2359
55°	2370	2287	2244
60°	2248	2158	2118
65°	2116	2017	1975
70°	1968	1862	1816
75°	1786	1685	1657
80°	1547	1464	1472
85°	1277	1260	1176

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2584 cd/sqm

TEST NUMBER: P995655

CATALOG NUMBER: 24D3X-LP-WD-80-L930.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.2	3.7
10°-20°	606.0	10.6
20°-30°	893.1	15.6
30°-40°	1033.9	18.1
40°-50°	1020.8	17.9
50°-60°	874.3	15.3
60°-70°	632.1	11.1
70°-80°	348.5	6.1
80°-90°	93.8	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°	1713.3	30.0
0°-40°	2747.3	48.1
0°-60°	4642.4	81.2
0°-90°	5716.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2267	2267	2267	2267	2267	
5°	2259	2258	2256	2254	2254	214
15°	2158	2156	2150	2147	2145	608
25°	1959	1954	1938	1928	1923	902
35°	1682	1672	1650	1636	1632	1052
45°	1358	1340	1319	1306	1300	1046
55°	1010	991	975	961	956	903
65°	664	650	633	624	620	659
75°	344	333	324	323	319	365
85°	83	83	82	76	76	97
90°	0	0	0	0	0	

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CATALOG NUMBER: 24D3X-LP-WD-80-L930.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2267.3	2267.3	2267.3	2267.3	2267.3
2.5°	2267.3	2267.3	2265.1	2265.1	2265.1
5°	2258.7	2257.6	2256.5	2254.4	2254.4
7.5°	2242.6	2242.6	2239.4	2239.4	2237.2
10°	2222.2	2220.1	2216.8	2216.8	2214.7
12.5°	2193.2	2191.1	2186.8	2185.7	2182.5
15°	2157.8	2155.6	2150.3	2147.1	2144.9
17.5°	2117.0	2113.8	2107.3	2102.0	2097.7
20°	2070.8	2066.5	2056.9	2050.4	2045.1
22.5°	2018.2	2013.9	2000.0	1992.5	1987.1
25°	1959.2	1953.8	1937.7	1928.1	1922.7
27.5°	1895.8	1889.4	1871.2	1860.4	1855.1
30°	1830.4	1820.7	1802.4	1789.6	1785.3
32.5°	1757.4	1747.7	1729.4	1714.4	1710.1
35°	1682.2	1671.5	1650.0	1636.1	1631.8
37.5°	1604.9	1591.0	1571.6	1557.7	1551.2
40°	1523.3	1509.4	1487.9	1472.9	1469.7
42.5°	1441.7	1424.6	1406.3	1391.3	1384.8
45°	1358.0	1339.8	1319.4	1306.5	1300.0
47.5°	1270.0	1252.8	1234.6	1219.5	1214.2
50°	1184.1	1165.8	1147.6	1133.6	1127.2
52.5°	1096.1	1077.8	1060.6	1048.8	1042.4
55°	1010.2	990.9	974.8	960.8	956.5
57.5°	923.2	906.1	887.8	874.9	871.7
60°	835.2	820.2	801.9	790.1	786.9
62.5°	750.4	735.4	718.2	706.4	701.0
65°	664.5	649.5	633.4	623.7	620.5
67.5°	580.8	566.8	552.9	543.2	541.1
70°	500.3	486.3	473.4	464.8	461.6
72.5°	419.7	410.1	397.2	391.8	388.6
75°	343.5	332.8	324.2	323.1	318.8
77.5°	269.5	268.4	254.4	252.3	252.3
80°	199.7	196.5	188.9	186.8	190.0
82.5°	137.4	135.3	131.0	129.9	128.8
85°	82.7	82.7	81.6	76.2	76.2
87.5°	37.6	36.5	35.4	36.5	39.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)