

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: P995652

Luminaire Tested: 24D3X-LP-WD-80-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995652
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-L840.ies
Description: 2x4 D3X-LP AT 8000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

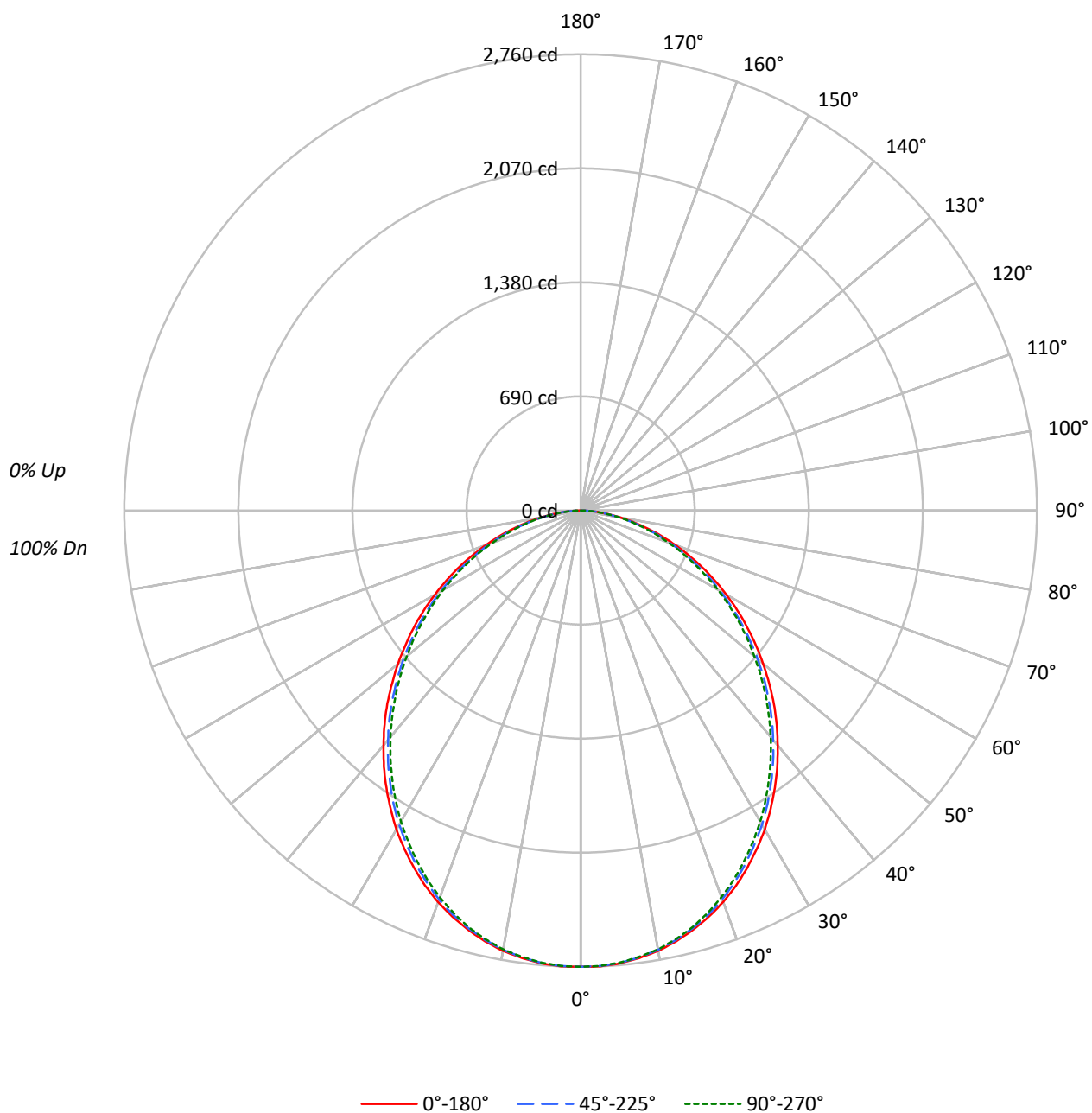
Lumens per Lamp: N/A
Luminaire Lumens: 6958.8 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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: P995652

CATALOG NUMBER: 24D3X-LP-WD-80-L840.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995652

CATALOG NUMBER: 24D3X-LP-WD-80-L840.ies

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°	3713	3713	3713
5°	3713	3710	3706
10°	3696	3687	3683
15°	3659	3646	3637
20°	3609	3585	3564
25°	3540	3502	3475
30°	3462	3409	3376
35°	3363	3299	3263
40°	3257	3181	3142
45°	3145	3056	3011
50°	3017	2924	2872
55°	2885	2783	2731
60°	2736	2627	2578
65°	2575	2455	2405
70°	2395	2267	2210
75°	2174	2051	2018
80°	1884	1782	1792
85°	1553	1533	1433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3145 cd/sqm

TEST NUMBER: P995652

CATALOG NUMBER: 24D3X-LP-WD-80-L840.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.7	3.7
10°-20°	737.7	10.6
20°-30°	1087.2	15.6
30°-40°	1258.6	18.1
40°-50°	1242.5	17.9
50°-60°	1064.3	15.3
60°-70°	769.5	11.1
70°-80°	424.2	6.1
80°-90°	114.2	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°	2085.6	30.0
0°-40°	3344.1	48.1
0°-60°	5651.0	81.2
0°-90°	6958.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6958.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2760	2760	2760	2760	2760	
5°	2749	2748	2747	2744	2744	261
15°	2627	2624	2617	2614	2611	740
25°	2385	2378	2359	2347	2340	1098
35°	2048	2035	2008	1992	1986	1280
45°	1653	1631	1606	1590	1582	1274
55°	1230	1206	1186	1170	1164	1099
65°	809	791	771	759	755	802
75°	418	405	395	393	388	444
85°	101	101	99	93	93	118
90°	0	0	0	0	0	

TEST NUMBER: P995652

CATALOG NUMBER: 24D3X-LP-WD-80-L840.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2759.9	2759.9	2759.9	2759.9	2759.9
2.5°	2759.9	2759.9	2757.2	2757.2	2757.2
5°	2749.4	2748.1	2746.8	2744.2	2744.2
7.5°	2729.8	2729.8	2725.9	2725.9	2723.3
10°	2705.0	2702.4	2698.4	2698.4	2695.8
12.5°	2669.7	2667.1	2661.9	2660.5	2656.6
15°	2626.6	2624.0	2617.4	2613.5	2610.9
17.5°	2576.9	2573.0	2565.2	2558.6	2553.4
20°	2520.7	2515.5	2503.7	2495.9	2489.4
22.5°	2456.7	2451.5	2434.5	2425.3	2418.8
25°	2384.8	2378.3	2358.7	2346.9	2340.4
27.5°	2307.7	2299.9	2277.7	2264.6	2258.1
30°	2228.0	2216.3	2194.0	2178.4	2173.1
32.5°	2139.2	2127.4	2105.2	2086.9	2081.7
35°	2047.7	2034.6	2008.5	1991.5	1986.3
37.5°	1953.6	1936.6	1913.1	1896.1	1888.3
40°	1854.3	1837.3	1811.2	1792.9	1788.9
42.5°	1755.0	1734.1	1711.8	1693.6	1685.7
45°	1653.0	1630.8	1606.0	1590.3	1582.5
47.5°	1545.9	1525.0	1502.8	1484.5	1477.9
50°	1441.3	1419.1	1396.9	1379.9	1372.1
52.5°	1334.2	1312.0	1291.1	1276.7	1268.9
55°	1229.7	1206.1	1186.5	1169.5	1164.3
57.5°	1123.8	1102.9	1080.7	1065.0	1061.1
60°	1016.7	998.4	976.1	961.8	957.9
62.5°	913.4	895.1	874.2	859.8	853.3
65°	808.9	790.6	771.0	759.2	755.3
67.5°	707.0	690.0	673.0	661.2	658.6
70°	608.9	592.0	576.3	565.8	561.9
72.5°	510.9	499.2	483.5	477.0	473.0
75°	418.2	405.1	394.6	393.3	388.1
77.5°	328.0	326.7	309.7	307.1	307.1
80°	243.1	239.1	230.0	227.4	231.3
82.5°	167.3	164.7	159.4	158.1	156.8
85°	100.6	100.6	99.3	92.8	92.8
87.5°	45.7	44.4	43.1	44.4	48.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)