

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: P995482

Luminaire Tested: 22D3X-LP-WD-20-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995482
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-20-L850.ies
Description: 2x2 D3X-LP AT 2000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

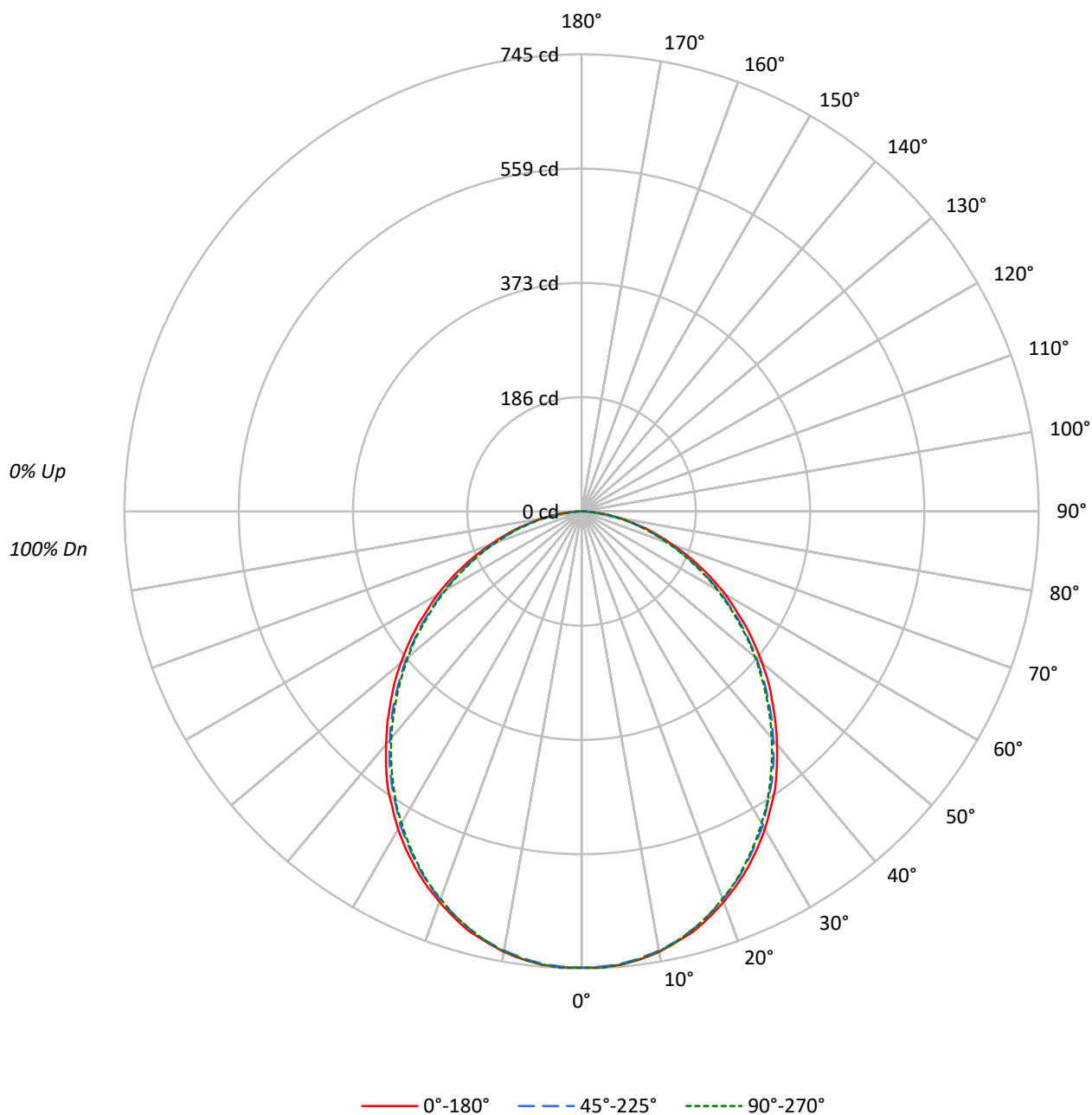
Lumens per Lamp: N/A
Luminaire Lumens: 1858.8 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.1
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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	2002	2002	2002
5°	2003	1999	2003
10°	1992	1986	1990
15°	1973	1963	1963
20°	1939	1928	1924
25°	1903	1885	1879
30°	1858	1835	1823
35°	1808	1774	1762
40°	1741	1707	1694
45°	1675	1635	1621
50°	1610	1557	1545
55°	1536	1481	1460
60°	1460	1396	1376
65°	1359	1293	1279
70°	1242	1195	1166
75°	1132	1063	1071
80°	976	919	930
85°	753	732	685

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1675 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.3	3.8
10°-20°	198.7	10.7
20°-30°	292.6	15.7
30°-40°	338.5	18.2
40°-50°	332.8	17.9
50°-60°	283.6	15.3
60°-70°	203.2	10.9
70°-80°	110.4	5.9
80°-90°	28.8	1.5
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°	561.5	30.2
0°-40°	900.0	48.4
0°-60°	1516.4	81.6
0°-90°	1858.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1858.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	744	744	744	744	744	
5°	742	740	740	740	742	70
15°	708	705	705	704	705	199
25°	641	638	635	633	633	295
35°	550	546	540	537	536	343
45°	440	437	430	426	426	340
55°	328	322	316	312	311	292
65°	213	209	203	201	201	211
75°	109	105	102	101	103	115
85°	24	24	24	23	22	30
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	743.8	743.8	743.8	743.8	743.8
2.5°	743.8	743.1	742.4	743.1	744.6
5°	741.6	740.1	740.1	740.1	741.6
7.5°	736.4	734.9	734.2	734.9	735.7
10°	729.0	727.5	726.8	727.5	728.3
12.5°	718.6	717.9	717.2	717.2	717.9
15°	708.3	705.3	704.6	703.8	704.6
17.5°	693.5	692.7	689.7	689.7	689.7
20°	677.2	675.7	673.4	672.0	672.0
22.5°	660.1	658.6	654.9	653.4	654.2
25°	640.9	637.9	634.9	633.4	632.7
27.5°	620.1	617.1	612.7	610.5	610.5
30°	597.9	595.7	590.5	587.5	586.8
32.5°	573.4	572.0	564.5	563.1	563.1
35°	550.5	546.0	540.1	537.1	536.4
37.5°	523.1	520.1	514.2	510.5	509.7
40°	495.6	491.9	486.0	483.0	482.3
42.5°	468.2	464.5	458.6	454.9	454.2
45°	440.1	437.1	429.7	426.0	426.0
47.5°	413.4	407.5	400.8	397.8	397.1
50°	384.5	379.3	371.9	369.0	369.0
52.5°	355.6	351.9	343.8	342.3	340.8
55°	327.5	321.5	315.6	311.9	311.2
57.5°	297.1	291.9	286.0	283.0	283.0
60°	271.2	264.5	259.3	255.6	255.6
62.5°	241.5	235.6	230.4	228.2	227.4
65°	213.4	208.9	203.0	200.8	200.8
67.5°	185.2	181.5	176.3	174.1	174.8
70°	157.8	155.6	151.9	148.9	148.2
72.5°	132.6	129.7	125.9	125.2	125.2
75°	108.9	105.2	102.2	100.8	103.0
77.5°	84.5	82.2	80.8	80.0	80.8
80°	63.0	60.0	59.3	60.0	60.0
82.5°	43.7	42.2	41.5	41.5	41.5
85°	24.4	24.4	23.7	23.0	22.2
87.5°	9.6	9.6	10.4	10.4	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)