

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: P995536

Luminaire Tested: 22D3X-LP-WD-50-L850.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995536
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-50-L850.ies
Description: 2x2 D3X-LP AT 5000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

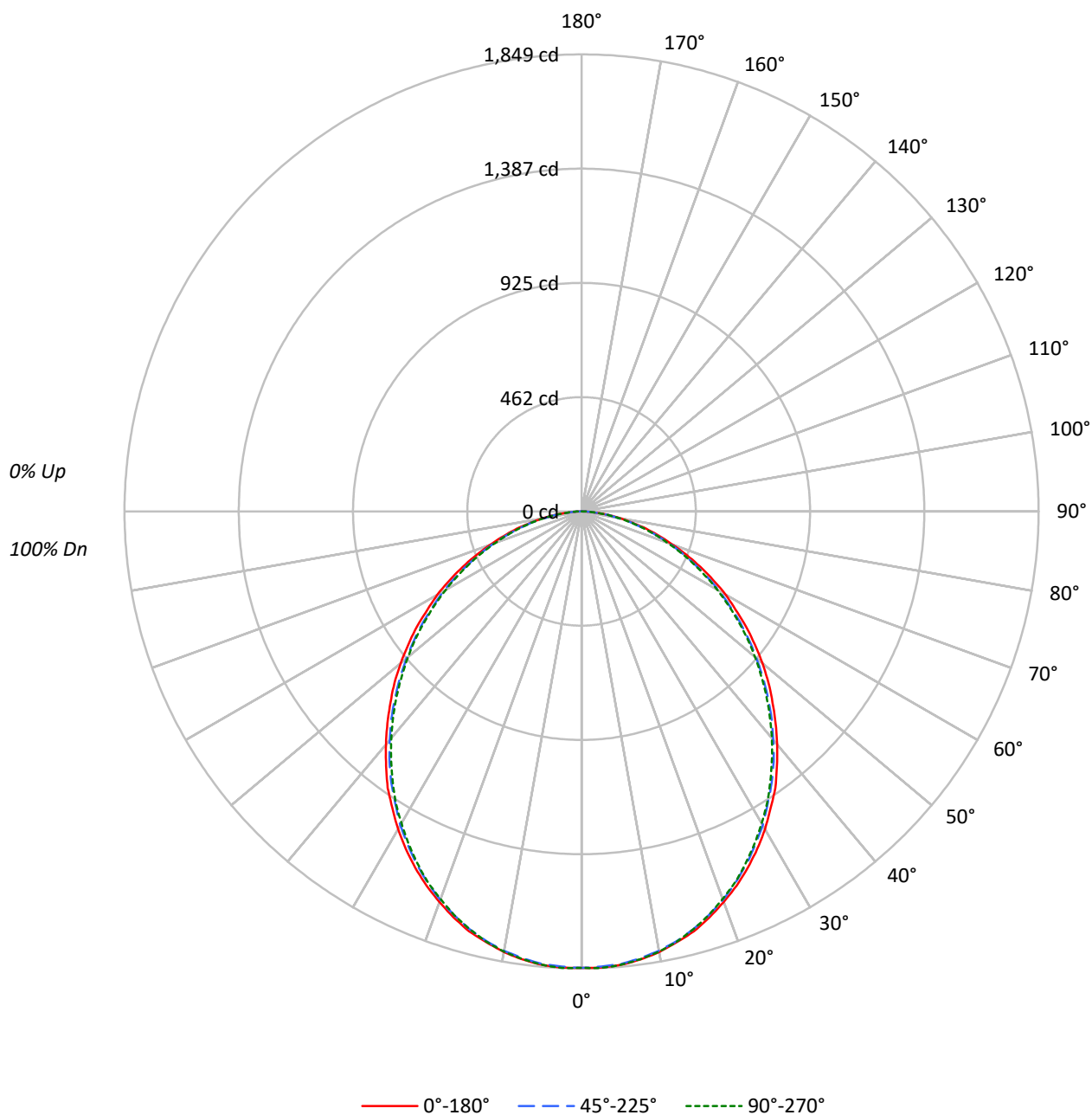
Lumens per Lamp: N/A
Luminaire Lumens: 4615.0 lumens
Efficiency: N/A
Efficacy: 110.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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°	4970	4970	4970
5°	4974	4964	4974
10°	4946	4931	4941
15°	4899	4873	4873
20°	4815	4788	4778
25°	4724	4681	4664
30°	4612	4556	4527
35°	4490	4405	4375
40°	4323	4239	4207
45°	4158	4060	4025
50°	3997	3866	3835
55°	3814	3676	3625
60°	3623	3465	3415
65°	3373	3209	3174
70°	3083	2967	2895
75°	2811	2639	2659
80°	2424	2281	2309
85°	1874	1819	1704

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4158 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.5	3.8
10°-20°	493.3	10.7
20°-30°	726.5	15.7
30°-40°	840.4	18.2
40°-50°	826.2	17.9
50°-60°	704.1	15.3
60°-70°	504.5	10.9
70°-80°	274.0	5.9
80°-90°	71.5	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°	1394.2	30.2
0°-40°	2234.6	48.4
0°-60°	3765.0	81.6
0°-90°	4615.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4615.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1847	1847	1847	1847	1847	
5°	1841	1838	1838	1838	1841	175
15°	1758	1751	1749	1748	1749	495
25°	1591	1584	1576	1573	1571	732
35°	1367	1356	1341	1334	1332	852
45°	1093	1085	1067	1058	1058	844
55°	813	798	784	774	773	726
65°	530	519	504	498	498	525
75°	270	261	254	250	256	286
85°	61	61	59	57	55	74
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1846.8	1846.8	1846.8	1846.8	1846.8
2.5°	1846.8	1845.0	1843.1	1845.0	1848.7
5°	1841.3	1837.6	1837.6	1837.6	1841.3
7.5°	1828.4	1824.7	1822.9	1824.7	1826.6
10°	1810.0	1806.4	1804.5	1806.4	1808.2
12.5°	1784.3	1782.4	1780.6	1780.6	1782.4
15°	1758.5	1751.2	1749.3	1747.5	1749.3
17.5°	1721.7	1719.9	1712.5	1712.5	1712.5
20°	1681.3	1677.6	1672.1	1668.4	1668.4
22.5°	1639.0	1635.3	1626.1	1622.4	1624.2
25°	1591.1	1583.8	1576.4	1572.7	1570.9
27.5°	1539.6	1532.3	1521.2	1515.7	1515.7
30°	1484.4	1478.9	1466.1	1458.7	1456.9
32.5°	1423.7	1420.1	1401.7	1398.0	1398.0
35°	1366.7	1355.7	1341.0	1333.6	1331.8
37.5°	1298.7	1291.3	1276.6	1267.4	1265.6
40°	1230.6	1221.4	1206.7	1199.3	1197.5
42.5°	1162.5	1153.3	1138.6	1129.4	1127.6
45°	1092.6	1085.3	1066.9	1057.7	1057.7
47.5°	1026.4	1011.7	995.1	987.8	986.0
50°	954.7	941.8	923.4	916.1	916.1
52.5°	882.9	873.7	853.5	849.8	846.2
55°	813.0	798.3	783.6	774.4	772.6
57.5°	737.6	724.7	710.0	702.7	702.7
60°	673.2	656.7	643.8	634.6	634.6
62.5°	599.7	584.9	572.1	566.6	564.7
65°	529.8	518.7	504.0	498.5	498.5
67.5°	459.9	450.7	437.8	432.3	434.1
70°	391.8	386.3	377.1	369.7	367.9
72.5°	329.3	321.9	312.7	310.9	310.9
75°	270.4	261.2	253.8	250.2	255.7
77.5°	209.7	204.2	200.5	198.7	200.5
80°	156.4	149.0	147.2	149.0	149.0
82.5°	108.5	104.8	103.0	103.0	103.0
85°	60.7	60.7	58.9	57.0	55.2
87.5°	23.9	23.9	25.8	25.8	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)