

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: P995615

Luminaire Tested: 24D3X-LP-WD-50-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995615
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-50-L835.ies
Description: 2x4 D3X-LP AT 5000LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

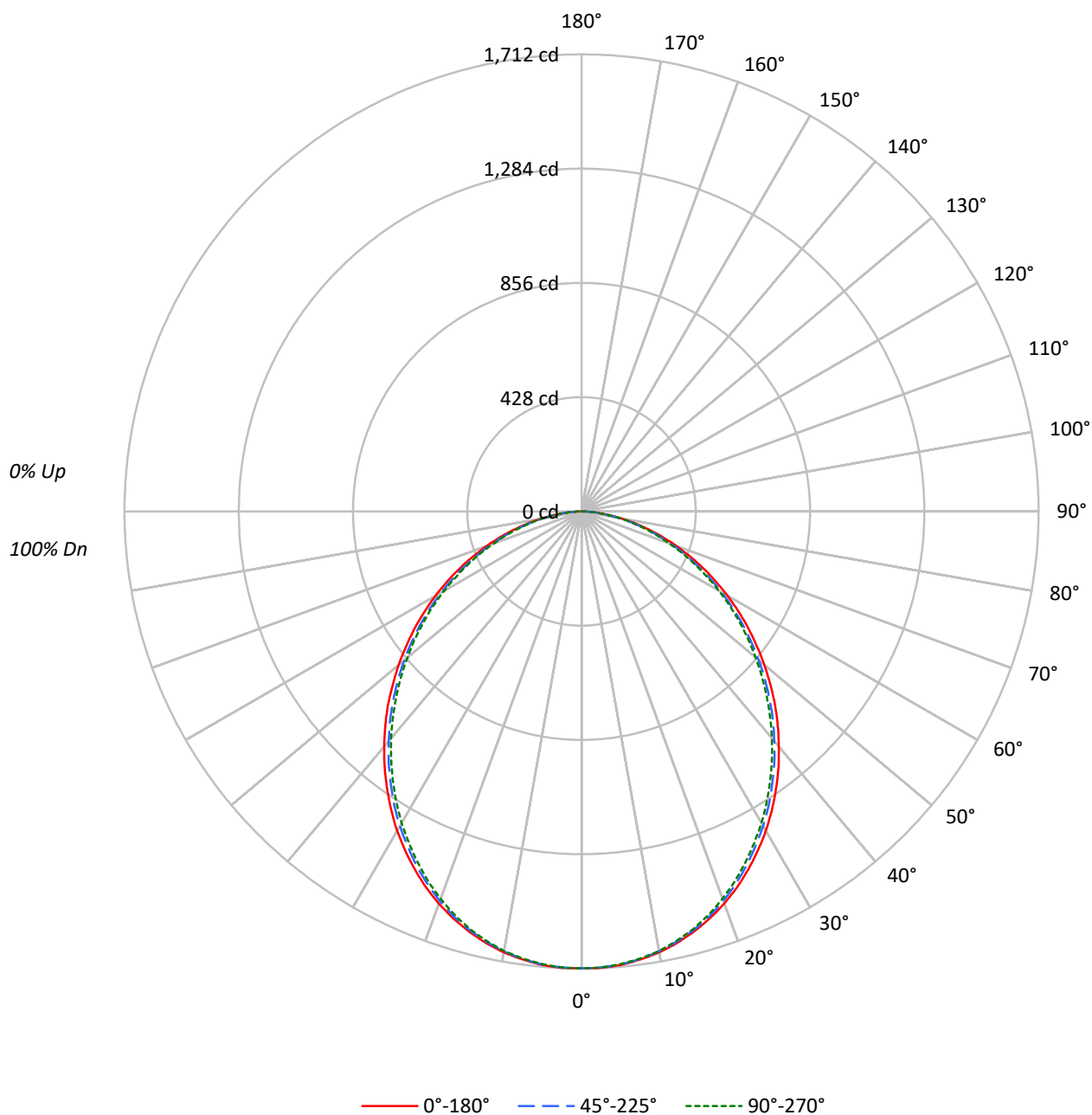
Lumens per Lamp: N/A
Luminaire Lumens: 4315.5 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 37
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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	33	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2303	2303	2303
5°	2303	2301	2299
10°	2292	2286	2284
15°	2269	2261	2255
20°	2238	2223	2210
25°	2196	2171	2155
30°	2147	2114	2094
35°	2086	2046	2023
40°	2020	1973	1949
45°	1951	1895	1867
50°	1871	1813	1781
55°	1789	1726	1694
60°	1697	1629	1598
65°	1597	1522	1491
70°	1485	1406	1371
75°	1348	1272	1251
80°	1168	1105	1111
85°	963	951	888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1951 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.7	3.7
10°-20°	457.5	10.6
20°-30°	674.2	15.6
30°-40°	780.5	18.1
40°-50°	770.6	17.9
50°-60°	660.0	15.3
60°-70°	477.2	11.1
70°-80°	263.0	6.1
80°-90°	70.8	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°	1293.4	30.0
0°-40°	2073.9	48.1
0°-60°	3504.4	81.2
0°-90°	4315.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4315.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1712	1712	1712	1712	1712	
5°	1705	1704	1703	1702	1702	162
15°	1629	1627	1623	1621	1619	459
25°	1479	1475	1463	1455	1451	681
35°	1270	1262	1246	1235	1232	794
45°	1025	1011	996	986	981	790
55°	763	748	736	725	722	682
65°	502	490	478	471	468	497
75°	259	251	245	244	241	275
85°	62	62	62	58	58	73
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1711.5	1711.5	1711.5	1711.5	1711.5
2.5°	1711.5	1711.5	1709.9	1709.9	1709.9
5°	1705.0	1704.2	1703.4	1701.8	1701.8
7.5°	1692.9	1692.9	1690.5	1690.5	1688.8
10°	1677.5	1675.9	1673.4	1673.4	1671.8
12.5°	1655.6	1654.0	1650.8	1649.9	1647.5
15°	1628.9	1627.2	1623.2	1620.8	1619.1
17.5°	1598.1	1595.6	1590.8	1586.7	1583.5
20°	1563.2	1560.0	1552.7	1547.8	1543.8
22.5°	1523.5	1520.3	1509.7	1504.1	1500.0
25°	1478.9	1474.9	1462.7	1455.4	1451.4
27.5°	1431.1	1426.3	1412.5	1404.4	1400.3
30°	1381.7	1374.4	1360.6	1350.9	1347.7
32.5°	1326.6	1319.3	1305.5	1294.2	1290.9
35°	1269.9	1261.8	1245.6	1235.0	1231.8
37.5°	1211.5	1201.0	1186.4	1175.9	1171.0
40°	1149.9	1139.4	1123.2	1111.8	1109.4
42.5°	1088.3	1075.4	1061.6	1050.3	1045.4
45°	1025.1	1011.4	996.0	986.2	981.4
47.5°	958.7	945.7	931.9	920.6	916.5
50°	893.9	880.1	866.3	855.8	850.9
52.5°	827.4	813.6	800.7	791.7	786.9
55°	762.6	748.0	735.8	725.3	722.1
57.5°	696.9	684.0	670.2	660.5	658.0
60°	630.5	619.1	605.4	596.4	594.0
62.5°	566.5	555.1	542.1	533.2	529.2
65°	501.6	490.3	478.1	470.8	468.4
67.5°	438.4	427.9	417.3	410.1	408.4
70°	377.6	367.1	357.4	350.9	348.5
72.5°	316.9	309.6	299.8	295.8	293.4
75°	259.3	251.2	244.7	243.9	240.7
77.5°	203.4	202.6	192.1	190.4	190.4
80°	150.7	148.3	142.6	141.0	143.4
82.5°	103.7	102.1	98.9	98.1	97.2
85°	62.4	62.4	61.6	57.5	57.5
87.5°	28.4	27.6	26.7	27.6	30.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)