

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: P995620

Luminaire Tested: 24D3X-LP-WD-50-L935.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995620
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-L935.ies
Description: 2x4 D3X-LP AT 5000LM 3500K 90CRI
Light Source: -
Ballast/Driver: -

Summary

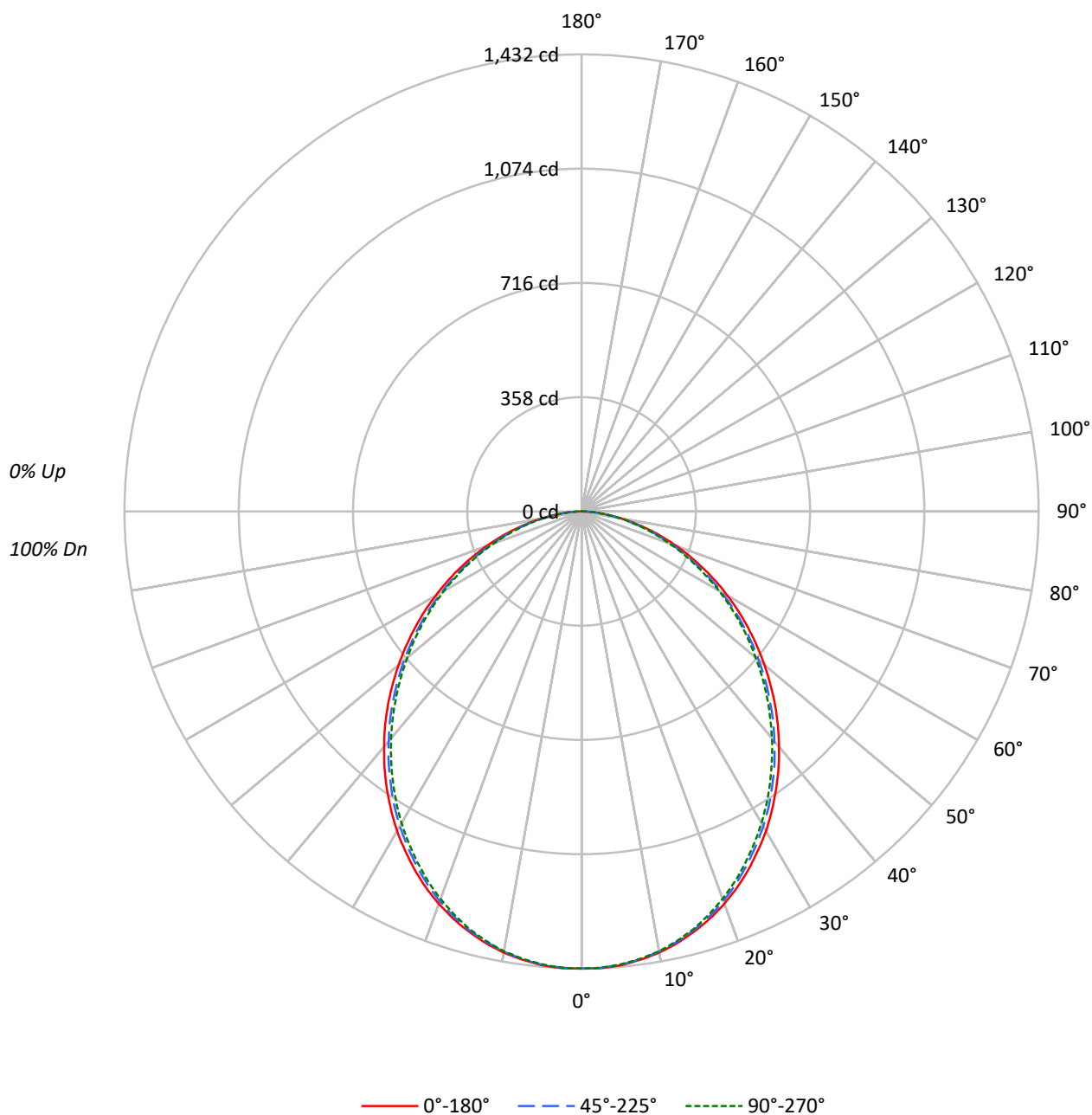
Lumens per Lamp: N/A
Luminaire Lumens: 3611.7 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	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°	1927	1927	1927
5°	1927	1925	1924
10°	1918	1913	1912
15°	1899	1892	1888
20°	1873	1861	1850
25°	1838	1817	1803
30°	1797	1769	1752
35°	1746	1712	1693
40°	1690	1651	1631
45°	1632	1586	1563
50°	1566	1518	1491
55°	1497	1445	1418
60°	1420	1363	1338
65°	1337	1274	1248
70°	1244	1177	1147
75°	1128	1065	1047
80°	977	925	930
85°	806	795	744

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1632 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.7
10°-20°	382.9	10.6
20°-30°	564.3	15.6
30°-40°	653.2	18.1
40°-50°	644.9	17.9
50°-60°	552.4	15.3
60°-70°	399.4	11.1
70°-80°	220.1	6.1
80°-90°	59.3	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°	1082.4	30.0
0°-40°	1735.6	48.1
0°-60°	2932.9	81.2
0°-90°	3611.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3611.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1432	1432	1432	1432	1432	
5°	1427	1426	1426	1424	1424	135
15°	1363	1362	1358	1356	1355	384
25°	1238	1234	1224	1218	1215	570
35°	1063	1056	1042	1034	1031	665
45°	858	846	834	825	821	661
55°	638	626	616	607	604	570
65°	420	410	400	394	392	416
75°	217	210	205	204	201	230
85°	52	52	52	48	48	61
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1432.4	1432.4	1432.4	1432.4	1432.4
2.5°	1432.4	1432.4	1431.0	1431.0	1431.0
5°	1427.0	1426.3	1425.6	1424.3	1424.3
7.5°	1416.8	1416.8	1414.8	1414.8	1413.4
10°	1403.9	1402.6	1400.5	1400.5	1399.2
12.5°	1385.6	1384.2	1381.5	1380.9	1378.8
15°	1363.2	1361.9	1358.5	1356.4	1355.1
17.5°	1337.5	1335.4	1331.3	1328.0	1325.2
20°	1308.3	1305.6	1299.5	1295.4	1292.0
22.5°	1275.1	1272.3	1263.5	1258.8	1255.4
25°	1237.8	1234.4	1224.2	1218.1	1214.7
27.5°	1197.7	1193.7	1182.1	1175.4	1172.0
30°	1156.4	1150.3	1138.7	1130.6	1127.9
32.5°	1110.2	1104.1	1092.6	1083.1	1080.4
35°	1062.8	1056.0	1042.4	1033.6	1030.9
37.5°	1013.9	1005.1	992.9	984.1	980.0
40°	962.4	953.6	940.0	930.5	928.5
42.5°	910.9	900.0	888.5	879.0	874.9
45°	857.9	846.4	833.5	825.4	821.3
47.5°	802.3	791.5	780.0	770.5	767.1
50°	748.1	736.5	725.0	716.2	712.1
52.5°	692.5	680.9	670.1	662.6	658.6
55°	638.2	626.0	615.8	607.0	604.3
57.5°	583.3	572.4	560.9	552.7	550.7
60°	527.7	518.2	506.6	499.2	497.1
62.5°	474.1	464.6	453.7	446.3	442.9
65°	419.8	410.3	400.2	394.0	392.0
67.5°	366.9	358.1	349.3	343.2	341.8
70°	316.1	307.2	299.1	293.7	291.6
72.5°	265.2	259.1	250.9	247.6	245.5
75°	217.0	210.2	204.8	204.1	201.4
77.5°	170.2	169.6	160.7	159.4	159.4
80°	126.1	124.1	119.4	118.0	120.0
82.5°	86.8	85.5	82.7	82.1	81.4
85°	52.2	52.2	51.5	48.2	48.2
87.5°	23.7	23.1	22.4	23.1	25.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)