

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: P995631

Luminaire Tested: 24D3X-LP-WD-55-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995631
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-55-L950.ies
Description: 2x4 D3X-LP AT 5500LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

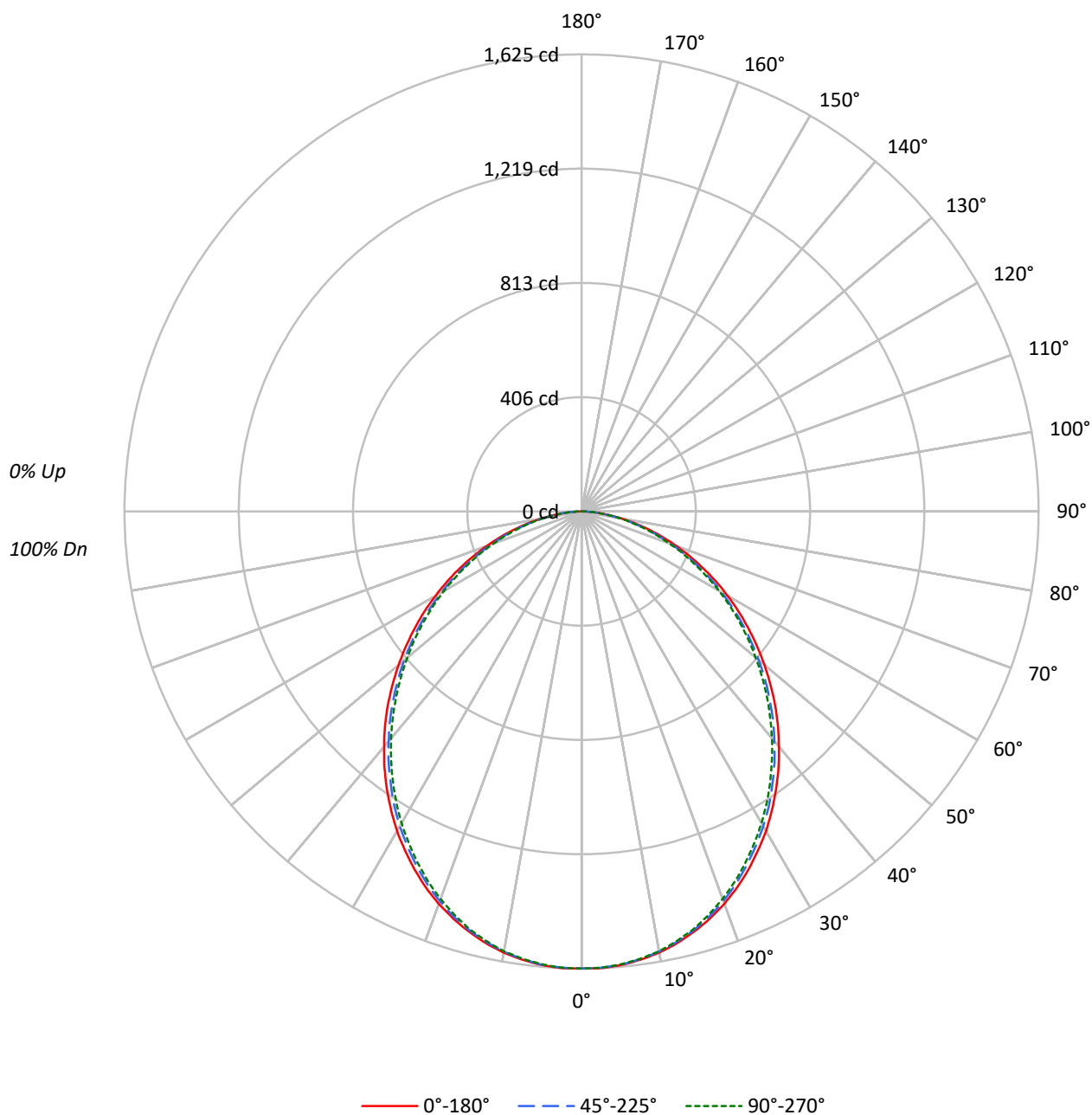
Lumens per Lamp: N/A
Luminaire Lumens: 4098.4 lumens
Efficiency: N/A
Efficacy: 99.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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

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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°	2187	2187	2187
5°	2187	2185	2183
10°	2177	2171	2169
15°	2155	2147	2142
20°	2126	2111	2099
25°	2085	2062	2046
30°	2039	2008	1989
35°	1981	1943	1921
40°	1918	1874	1851
45°	1853	1800	1773
50°	1777	1722	1692
55°	1699	1639	1609
60°	1611	1547	1518
65°	1517	1446	1416
70°	1411	1335	1302
75°	1280	1208	1188
80°	1109	1050	1055
85°	915	903	843

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1853 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	3.7
10°-20°	434.5	10.6
20°-30°	640.3	15.6
30°-40°	741.2	18.1
40°-50°	731.8	17.9
50°-60°	626.8	15.3
60°-70°	453.2	11.1
70°-80°	249.8	6.1
80°-90°	67.3	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°	1228.3	30.0
0°-40°	1969.5	48.1
0°-60°	3328.1	81.2
0°-90°	4098.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4098.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1625	1625	1625	1625	1625	
5°	1619	1618	1618	1616	1616	154
15°	1547	1545	1542	1539	1538	436
25°	1404	1401	1389	1382	1378	647
35°	1206	1198	1183	1173	1170	754
45°	974	960	946	937	932	750
55°	724	710	699	689	686	647
65°	476	466	454	447	445	472
75°	246	239	232	232	229	261
85°	59	59	58	55	55	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1625.4	1625.4	1625.4	1625.4	1625.4
2.5°	1625.4	1625.4	1623.9	1623.9	1623.9
5°	1619.2	1618.5	1617.7	1616.2	1616.2
7.5°	1607.7	1607.7	1605.4	1605.4	1603.9
10°	1593.1	1591.5	1589.2	1589.2	1587.7
12.5°	1572.3	1570.8	1567.7	1566.9	1564.6
15°	1546.9	1545.4	1541.5	1539.2	1537.7
17.5°	1517.7	1515.4	1510.7	1506.9	1503.8
20°	1484.6	1481.5	1474.6	1469.9	1466.1
22.5°	1446.9	1443.8	1433.8	1428.4	1424.5
25°	1404.5	1400.7	1389.1	1382.2	1378.4
27.5°	1359.1	1354.5	1341.4	1333.7	1329.9
30°	1312.2	1305.3	1292.2	1282.9	1279.9
32.5°	1259.8	1252.9	1239.8	1229.1	1226.0
35°	1206.0	1198.3	1182.9	1172.9	1169.8
37.5°	1150.6	1140.6	1126.7	1116.7	1112.1
40°	1092.1	1082.1	1066.7	1055.9	1053.6
42.5°	1033.6	1021.3	1008.2	997.4	992.8
45°	973.6	960.5	945.8	936.6	932.0
47.5°	910.4	898.1	885.0	874.3	870.4
50°	848.9	835.8	822.7	812.7	808.1
52.5°	785.8	772.7	760.4	751.9	747.3
55°	724.2	710.3	698.8	688.8	685.7
57.5°	661.9	649.5	636.5	627.2	624.9
60°	598.8	588.0	574.9	566.4	564.1
62.5°	538.0	527.2	514.9	506.4	502.6
65°	476.4	465.6	454.1	447.1	444.8
67.5°	416.4	406.4	396.3	389.4	387.9
70°	358.6	348.6	339.4	333.2	330.9
72.5°	300.9	294.0	284.8	280.9	278.6
75°	246.3	238.6	232.4	231.7	228.6
77.5°	193.2	192.4	182.4	180.9	180.9
80°	143.1	140.8	135.5	133.9	136.2
82.5°	98.5	97.0	93.9	93.1	92.4
85°	59.3	59.3	58.5	54.6	54.6
87.5°	26.9	26.2	25.4	26.2	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)