

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: P995605

Luminaire Tested: 24D3X-LP-WD-45-L830.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995605
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-45-L830.ies
Description: 2x4 D3X-LP AT 4500LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

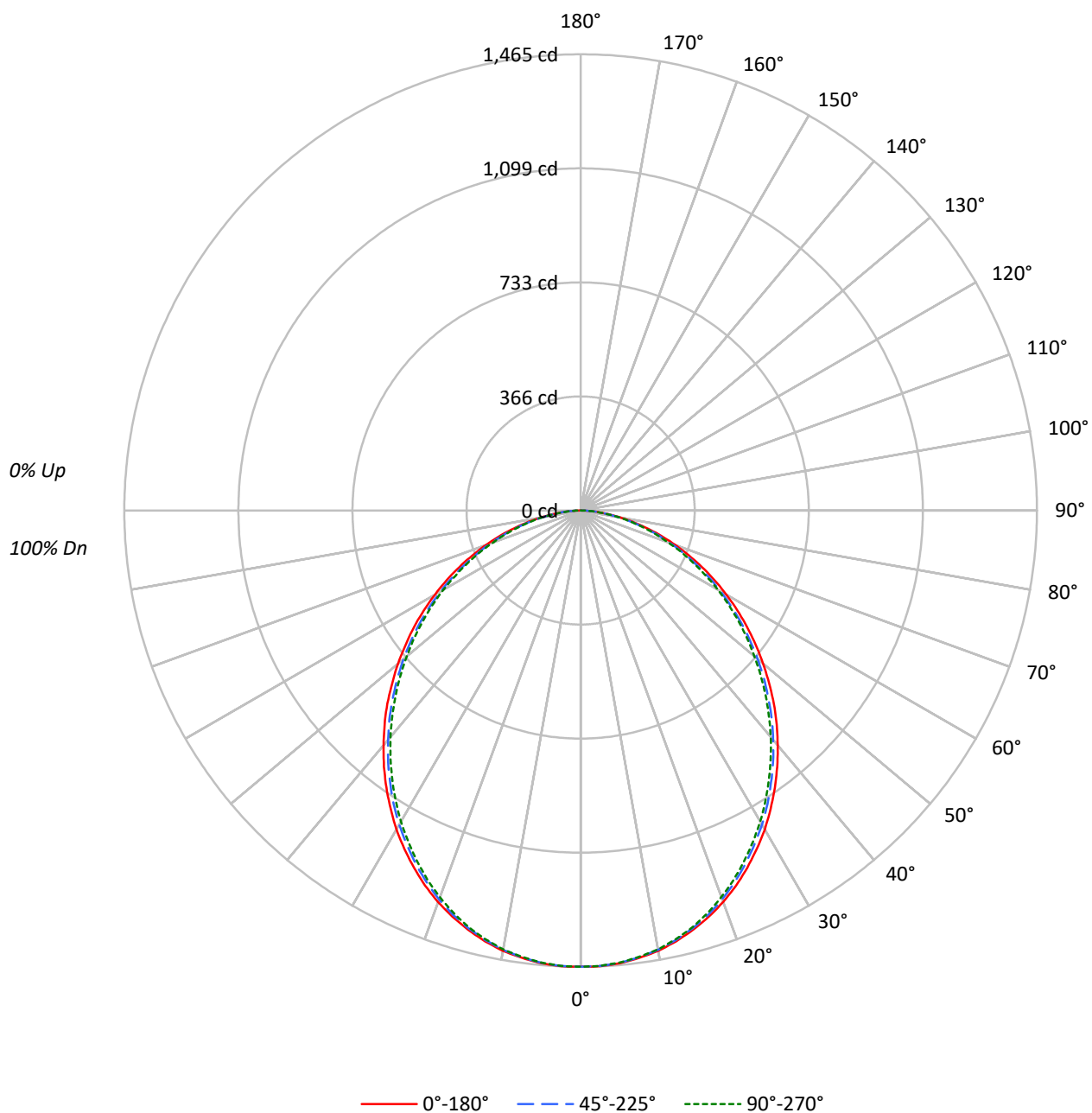
Lumens per Lamp: N/A
Luminaire Lumens: 3693.6 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33
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°	1971	1971	1971
5°	1971	1969	1967
10°	1962	1957	1955
15°	1942	1935	1930
20°	1916	1903	1892
25°	1879	1859	1844
30°	1837	1809	1792
35°	1785	1751	1732
40°	1729	1688	1668
45°	1670	1622	1598
50°	1601	1552	1524
55°	1531	1477	1450
60°	1452	1394	1368
65°	1367	1303	1276
70°	1271	1203	1173
75°	1154	1089	1071
80°	1000	946	951
85°	824	814	760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1670 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.4	3.7
10°-20°	391.6	10.6
20°-30°	577.0	15.6
30°-40°	668.0	18.1
40°-50°	659.5	17.9
50°-60°	564.9	15.3
60°-70°	408.4	11.1
70°-80°	225.1	6.1
80°-90°	60.6	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°	1107.0	30.0
0°-40°	1775.0	48.1
0°-60°	2999.4	81.2
0°-90°	3693.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3693.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1465	1465	1465	1465	1465	
5°	1459	1459	1458	1457	1457	139
15°	1394	1393	1389	1387	1386	393
25°	1266	1262	1252	1246	1242	583
35°	1087	1080	1066	1057	1054	680
45°	877	866	852	844	840	676
55°	653	640	630	621	618	583
65°	429	420	409	403	401	426
75°	222	215	210	209	206	236
85°	53	53	53	49	49	63
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1464.9	1464.9	1464.9	1464.9	1464.9
2.5°	1464.9	1464.9	1463.5	1463.5	1463.5
5°	1459.3	1458.6	1457.9	1456.6	1456.6
7.5°	1448.9	1448.9	1446.8	1446.8	1445.5
10°	1435.8	1434.4	1432.3	1432.3	1430.9
12.5°	1417.0	1415.6	1412.9	1412.2	1410.1
15°	1394.1	1392.7	1389.3	1387.2	1385.8
17.5°	1367.8	1365.7	1361.5	1358.1	1355.3
20°	1338.0	1335.2	1328.9	1324.8	1321.3
22.5°	1304.0	1301.2	1292.2	1287.3	1283.9
25°	1265.8	1262.4	1251.9	1245.7	1242.2
27.5°	1224.9	1220.7	1208.9	1202.0	1198.5
30°	1182.6	1176.3	1164.6	1156.2	1153.5
32.5°	1135.4	1129.2	1117.4	1107.7	1104.9
35°	1086.9	1079.9	1066.1	1057.0	1054.3
37.5°	1036.9	1027.9	1015.4	1006.4	1002.3
40°	984.2	975.2	961.3	951.6	949.5
42.5°	931.5	920.4	908.6	898.9	894.7
45°	877.4	865.6	852.4	844.1	839.9
47.5°	820.5	809.4	797.6	787.9	784.5
50°	765.0	753.2	741.5	732.4	728.3
52.5°	708.2	696.4	685.3	677.6	673.5
55°	652.7	640.2	629.8	620.8	618.0
57.5°	596.5	585.4	573.6	565.3	563.2
60°	539.6	529.9	518.1	510.5	508.4
62.5°	484.8	475.1	464.0	456.4	452.9
65°	429.3	419.6	409.2	403.0	400.9
67.5°	375.2	366.2	357.2	351.0	349.6
70°	323.2	314.2	305.9	300.3	298.2
72.5°	271.2	265.0	256.6	253.2	251.1
75°	222.0	215.0	209.5	208.8	206.0
77.5°	174.1	173.4	164.4	163.0	163.0
80°	129.0	126.9	122.1	120.7	122.8
82.5°	88.8	87.4	84.6	83.9	83.2
85°	53.4	53.4	52.7	49.2	49.2
87.5°	24.3	23.6	22.9	23.6	25.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)