

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: P995612

Luminaire Tested: 24D3X-LP-WD-45-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995612
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-L940.ies
Description: 2x4 D3X-LP AT 4500LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

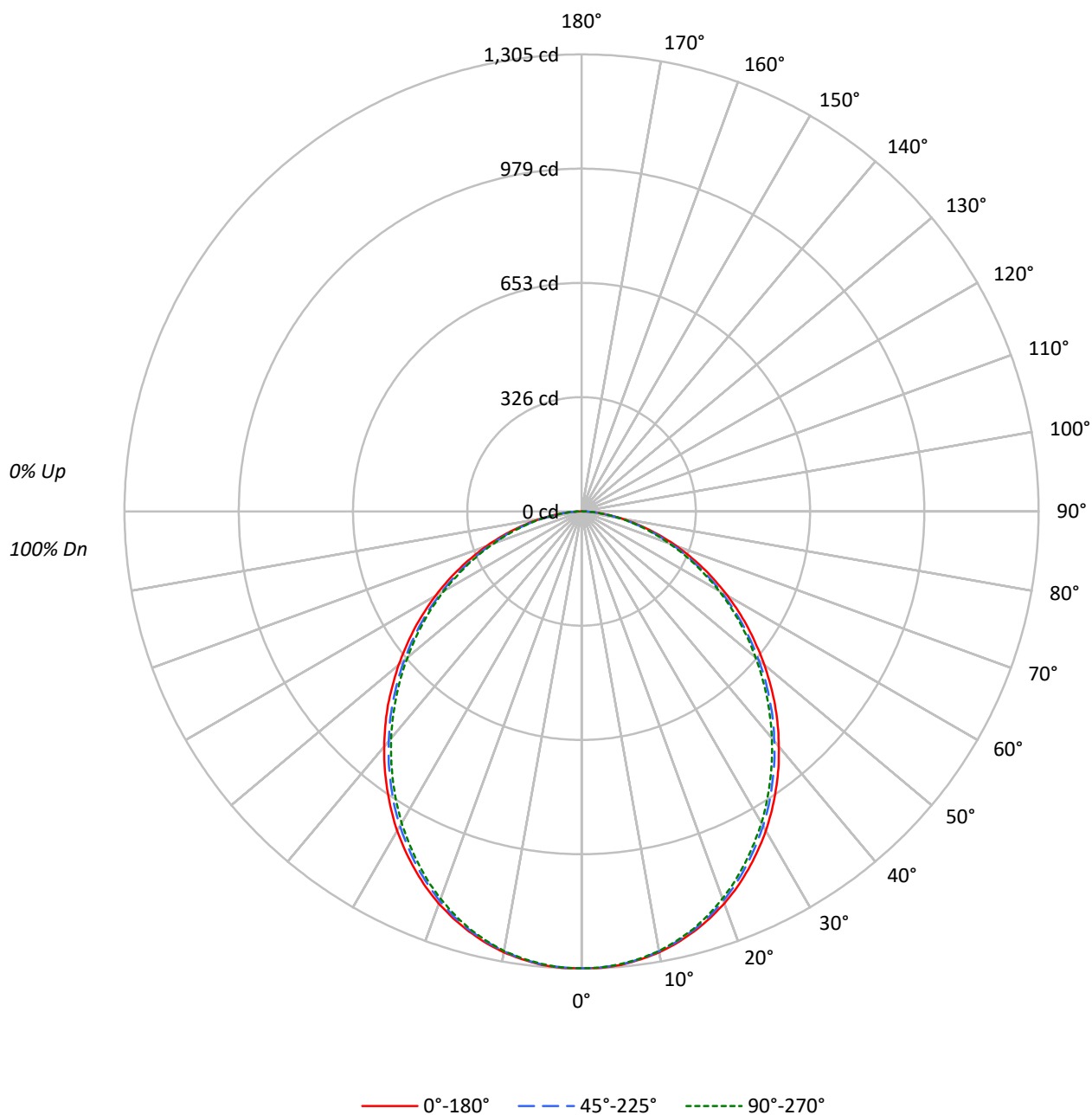
Lumens per Lamp: N/A
Luminaire Lumens: 3289.5 lumens
Efficiency: N/A
Efficacy: 99.7 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	1755	1755	1755
5°	1755	1754	1752
10°	1747	1743	1741
15°	1729	1724	1719
20°	1706	1695	1685
25°	1674	1655	1642
30°	1636	1611	1596
35°	1590	1559	1542
40°	1539	1504	1485
45°	1487	1445	1423
50°	1426	1382	1358
55°	1364	1316	1291
60°	1293	1242	1218
65°	1217	1160	1137
70°	1133	1072	1045
75°	1028	970	954
80°	890	842	847
85°	735	724	678

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1487 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	3.7
10°-20°	348.7	10.6
20°-30°	513.9	15.6
30°-40°	594.9	18.1
40°-50°	587.4	17.9
50°-60°	503.1	15.3
60°-70°	363.7	11.1
70°-80°	200.5	6.1
80°-90°	54.0	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°	985.9	30.0
0°-40°	1580.8	48.1
0°-60°	2671.3	81.2
0°-90°	3289.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3289.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1305	1305	1305	1305	1305	
5°	1300	1299	1298	1297	1297	123
15°	1242	1240	1237	1235	1234	350
25°	1127	1124	1115	1109	1106	519
35°	968	962	949	941	939	605
45°	781	771	759	752	748	602
55°	581	570	561	553	550	520
65°	382	374	364	359	357	379
75°	198	192	187	186	184	210
85°	48	48	47	44	44	56
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1304.6	1304.6	1304.6	1304.6	1304.6
2.5°	1304.6	1304.6	1303.4	1303.4	1303.4
5°	1299.7	1299.1	1298.4	1297.2	1297.2
7.5°	1290.4	1290.4	1288.6	1288.6	1287.3
10°	1278.7	1277.4	1275.6	1275.6	1274.3
12.5°	1262.0	1260.8	1258.3	1257.7	1255.8
15°	1241.6	1240.4	1237.3	1235.4	1234.2
17.5°	1218.1	1216.3	1212.6	1209.5	1207.0
20°	1191.6	1189.1	1183.5	1179.8	1176.7
22.5°	1161.3	1158.8	1150.8	1146.5	1143.4
25°	1127.3	1124.2	1115.0	1109.4	1106.3
27.5°	1090.9	1087.2	1076.7	1070.5	1067.4
30°	1053.2	1047.6	1037.1	1029.7	1027.3
32.5°	1011.2	1005.6	995.1	986.5	984.0
35°	968.0	961.8	949.4	941.4	938.9
37.5°	923.5	915.5	904.3	896.3	892.6
40°	876.5	868.5	856.2	847.5	845.7
42.5°	829.6	819.7	809.2	800.6	796.9
45°	781.4	770.9	759.2	751.8	748.1
47.5°	730.8	720.9	710.4	701.7	698.6
50°	681.3	670.8	660.3	652.3	648.6
52.5°	630.7	620.2	610.3	603.5	599.8
55°	581.3	570.2	560.9	552.9	550.4
57.5°	531.2	521.4	510.9	503.4	501.6
60°	480.6	471.9	461.4	454.6	452.8
62.5°	431.8	423.1	413.3	406.5	403.4
65°	382.4	373.7	364.5	358.9	357.0
67.5°	334.2	326.2	318.1	312.6	311.3
70°	287.9	279.8	272.4	267.5	265.6
72.5°	241.5	236.0	228.6	225.5	223.6
75°	197.7	191.5	186.6	185.9	183.5
77.5°	155.0	154.4	146.4	145.2	145.2
80°	114.9	113.0	108.7	107.5	109.3
82.5°	79.1	77.8	75.4	74.7	74.1
85°	47.6	47.6	46.9	43.9	43.9
87.5°	21.6	21.0	20.4	21.0	22.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)