

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: P#

Luminaire Tested: 14D3X-LP-WD-45-L850.ies

Issue Date: 2/27/2025

Test Information

Test Method: LM-79-2019
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P601206)
Test Lab: INNOVATION CENTER
Issue Date: 2/27/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-WD-45-L850.ies
Description: 1x4 D3X-LP ROUND PERF AT 4500lm 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4294.3 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

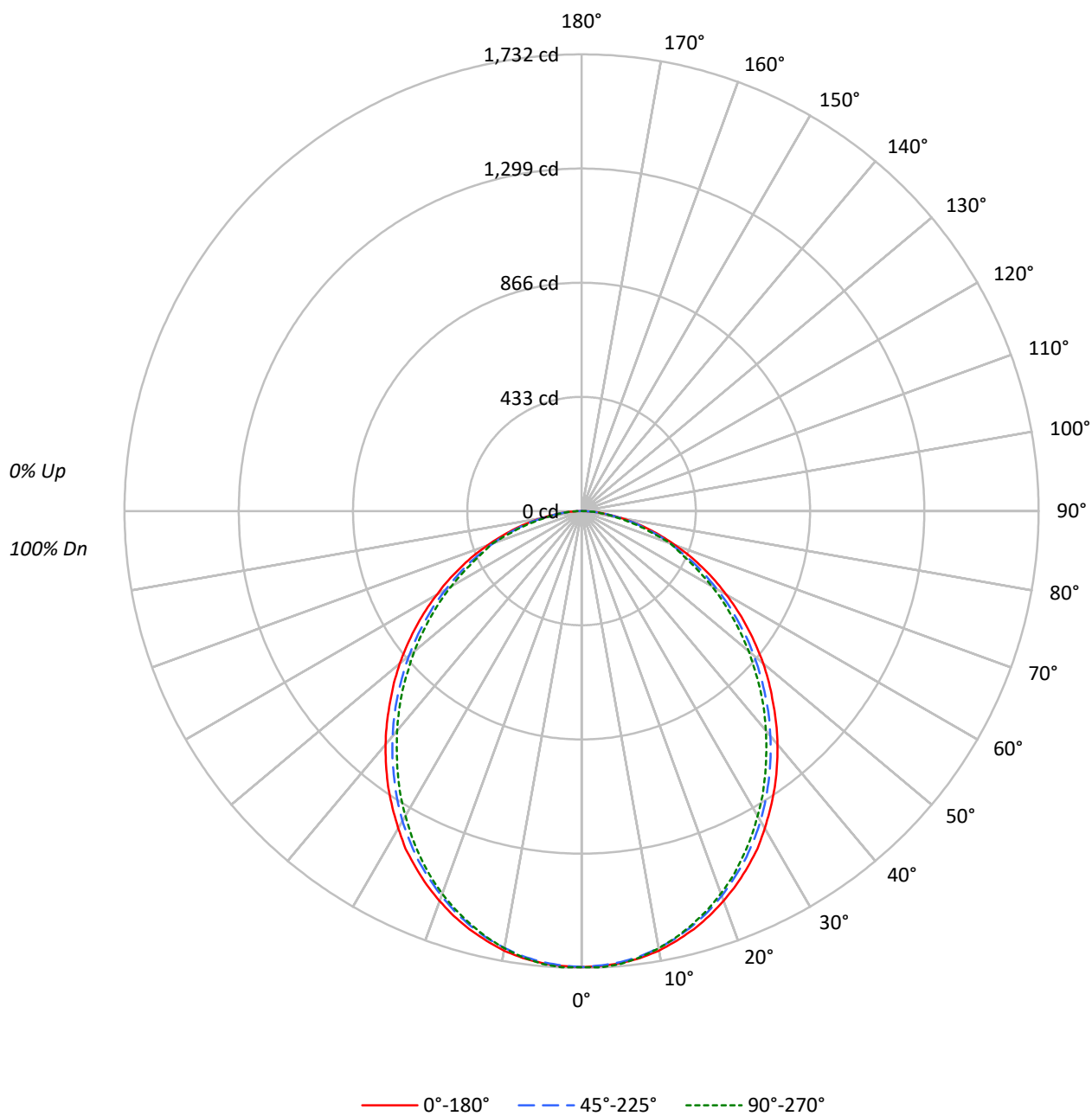
Input Watts (W): 54.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-WD-45-L850.ies

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-WD-45-L850.ies

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	98	95	98	95	92	94	92	89	91	88	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	56	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	34	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	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°	4654	4654	4654
5°	4647	4637	4654
10°	4625	4597	4600
15°	4574	4535	4521
20°	4505	4447	4421
25°	4422	4343	4294
30°	4316	4218	4146
35°	4196	4067	3987
40°	4059	3912	3818
45°	3904	3745	3648
50°	3763	3572	3460
55°	3592	3384	3264
60°	3403	3191	3068
65°	3210	3000	2862
70°	2967	2797	2827
75°	2732	2574	2442
80°	2380	2283	2046
85°	2001	1880	1880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3904 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-WD-45-L850.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.1	3.8
10°-20°	459.5	10.7
20°-30°	674.3	15.7
30°-40°	776.6	18.1
40°-50°	762.3	17.8
50°-60°	650.0	15.1
60°-70°	470.2	10.9
70°-80°	264.4	6.2
80°-90°	73.9	1.7
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°	1296.9	30.2
0°-40°	2073.5	48.3
0°-60°	3485.8	81.2
0°-90°	4294.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4294.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1720	1722	1717	1722	1723	163
15°	1642	1639	1628	1625	1623	463
25°	1489	1478	1463	1451	1446	686
35°	1277	1262	1238	1221	1214	798
45°	1026	1013	984	965	959	793
55°	766	749	721	703	696	685
65°	504	490	471	453	450	500
75°	263	258	248	237	235	278
85°	65	67	61	61	61	75
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-WD-45-L850.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1729.3	1729.3	1729.3	1729.3	1729.3
2.5°	1726.8	1728.0	1724.2	1730.6	1731.9
5°	1720.4	1721.7	1716.6	1721.7	1723.0
7.5°	1709.0	1709.0	1702.7	1706.5	1706.5
10°	1692.5	1690.0	1682.3	1683.6	1683.6
12.5°	1668.4	1668.4	1658.2	1658.2	1655.7
15°	1641.7	1639.2	1627.7	1625.2	1622.7
17.5°	1610.0	1606.2	1593.5	1588.4	1585.8
20°	1573.1	1566.8	1552.8	1546.5	1543.9
22.5°	1533.8	1524.9	1508.4	1500.8	1498.2
25°	1489.3	1477.9	1462.7	1451.3	1446.2
27.5°	1443.6	1432.2	1410.6	1397.9	1392.8
30°	1389.0	1377.6	1357.3	1342.1	1334.4
32.5°	1333.2	1323.0	1298.9	1282.4	1277.3
35°	1277.3	1262.1	1237.9	1221.4	1213.8
37.5°	1216.4	1203.7	1177.0	1159.2	1150.3
40°	1155.4	1142.7	1113.5	1094.5	1086.9
42.5°	1091.9	1075.4	1050.0	1029.7	1023.4
45°	1025.9	1013.2	984.0	965.0	958.6
47.5°	963.7	944.6	918.0	898.9	890.1
50°	898.9	881.2	853.2	832.9	826.6
52.5°	831.6	816.4	788.5	768.2	760.5
55°	765.6	749.1	721.2	703.4	695.8
57.5°	699.6	684.4	659.0	638.7	633.6
60°	632.3	618.3	592.9	576.4	570.1
62.5°	570.1	553.6	530.7	514.2	507.9
65°	504.1	490.1	471.1	453.3	449.5
67.5°	443.1	433.0	408.8	396.1	397.4
70°	377.1	377.1	355.5	342.8	359.3
72.5°	318.7	320.0	300.9	293.3	286.9
75°	262.8	257.7	247.6	237.4	234.9
77.5°	207.0	209.5	200.6	181.6	179.0
80°	153.6	167.6	147.3	134.6	132.0
82.5°	105.4	119.4	101.6	95.2	94.0
85°	64.8	67.3	60.9	60.9	60.9
87.5°	27.9	31.7	30.5	30.5	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)