

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-45-L830.ies

Issue Date: 2/27/2025

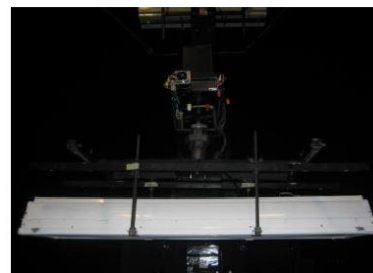
Test Information

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-45-L830.ies
Description: 1x4 D3X-LP AT 4500lm 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4427.0 lumens
Efficiency: N/A
Efficacy: 81.8 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

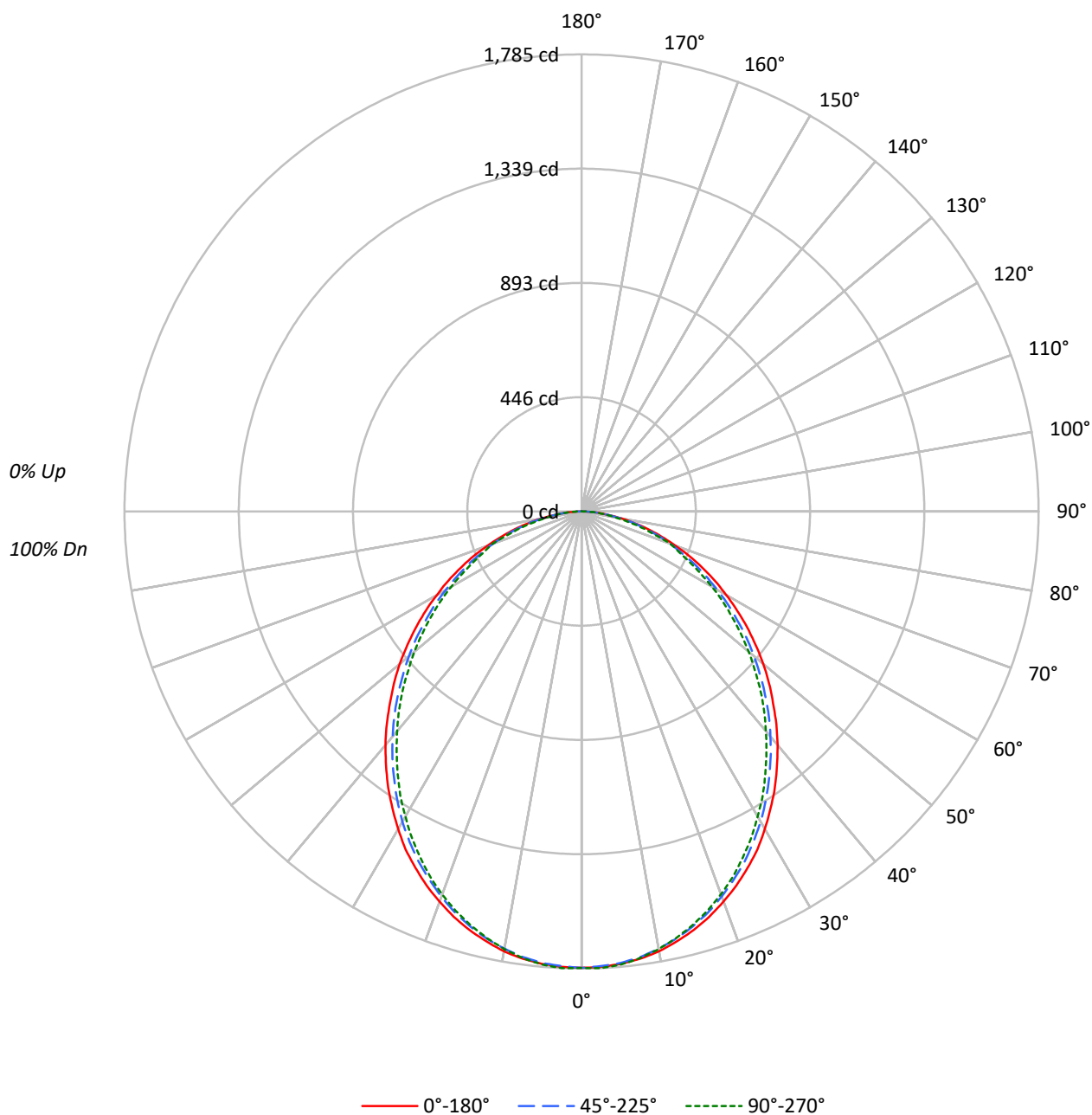
Input Watts (W): 54.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-45-L830.ies

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-45-L830.ies

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	56	48	43		54	47	42		52
7	66	53	44	38	65	52	44	38	51	43	38		49	43	38		48
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44
9	58	45	36	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4797	4797	4797
5°	4791	4780	4798
10°	4768	4739	4743
15°	4715	4675	4660
20°	4644	4584	4558
25°	4559	4477	4427
30°	4450	4348	4275
35°	4326	4192	4111
40°	4184	4032	3936
45°	4025	3860	3761
50°	3880	3682	3567
55°	3703	3488	3365
60°	3508	3290	3163
65°	3309	3092	2951
70°	3059	2884	2914
75°	2817	2653	2518
80°	2455	2352	2109
85°	2062	1939	1939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4025 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-45-L830.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.2	3.8
10°-20°	473.7	10.7
20°-30°	695.1	15.7
30°-40°	800.6	18.1
40°-50°	785.9	17.8
50°-60°	670.1	15.1
60°-70°	484.7	10.9
70°-80°	272.6	6.2
80°-90°	76.2	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°	1337.0	30.2
0°-40°	2137.6	48.3
0°-60°	3593.5	81.2
0°-90°	4427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4427.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1783	1783	1783	1783	1783	
5°	1774	1775	1770	1775	1776	168
15°	1692	1690	1678	1675	1673	477
25°	1535	1524	1508	1496	1491	707
35°	1317	1301	1276	1259	1251	823
45°	1058	1044	1014	995	988	817
55°	789	772	744	725	717	706
65°	520	505	486	467	463	516
75°	271	266	255	245	242	286
85°	67	69	63	63	63	77
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 14D3X-LP-45-L830.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1782.8	1782.8	1782.8	1782.8	1782.8
2.5°	1780.1	1781.4	1777.5	1784.1	1785.4
5°	1773.6	1774.9	1769.7	1774.9	1776.2
7.5°	1761.8	1761.8	1755.3	1759.2	1759.2
10°	1744.8	1742.2	1734.3	1735.6	1735.6
12.5°	1719.9	1719.9	1709.5	1709.5	1706.8
15°	1692.4	1689.8	1678.0	1675.4	1672.8
17.5°	1659.7	1655.8	1642.7	1637.5	1634.8
20°	1621.8	1615.2	1600.8	1594.3	1591.7
22.5°	1581.2	1572.0	1555.0	1547.1	1544.5
25°	1535.4	1523.6	1507.9	1496.1	1490.9
27.5°	1488.2	1476.5	1454.2	1441.1	1435.9
30°	1432.0	1420.2	1399.2	1383.5	1375.7
32.5°	1374.4	1363.9	1339.0	1322.0	1316.8
35°	1316.8	1301.1	1276.2	1259.2	1251.3
37.5°	1254.0	1240.9	1213.4	1195.0	1185.9
40°	1191.1	1178.0	1147.9	1128.3	1120.4
42.5°	1125.7	1108.7	1082.5	1061.5	1055.0
45°	1057.6	1044.5	1014.4	994.8	988.2
47.5°	993.5	973.8	946.4	926.7	917.6
50°	926.7	908.4	879.6	858.7	852.1
52.5°	857.3	841.6	812.8	791.9	784.0
55°	789.3	772.3	743.5	725.1	717.3
57.5°	721.2	705.5	679.3	658.4	653.2
60°	651.8	637.4	611.3	594.3	587.7
62.5°	587.7	570.7	547.1	530.1	523.6
65°	519.6	505.2	485.6	467.3	463.4
67.5°	456.8	446.3	421.5	408.4	409.7
70°	388.8	388.8	366.5	353.4	370.4
72.5°	328.5	329.8	310.2	302.4	295.8
75°	270.9	265.7	255.2	244.8	242.2
77.5°	213.4	216.0	206.8	187.2	184.6
80°	158.4	172.8	151.8	138.7	136.1
82.5°	108.6	123.0	104.7	98.2	96.9
85°	66.8	69.4	62.8	62.8	62.8
87.5°	28.8	32.7	31.4	31.4	32.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)