

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-50-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-50-L850.ies
Description: 1x4 D3X-LP AT 5000lm 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

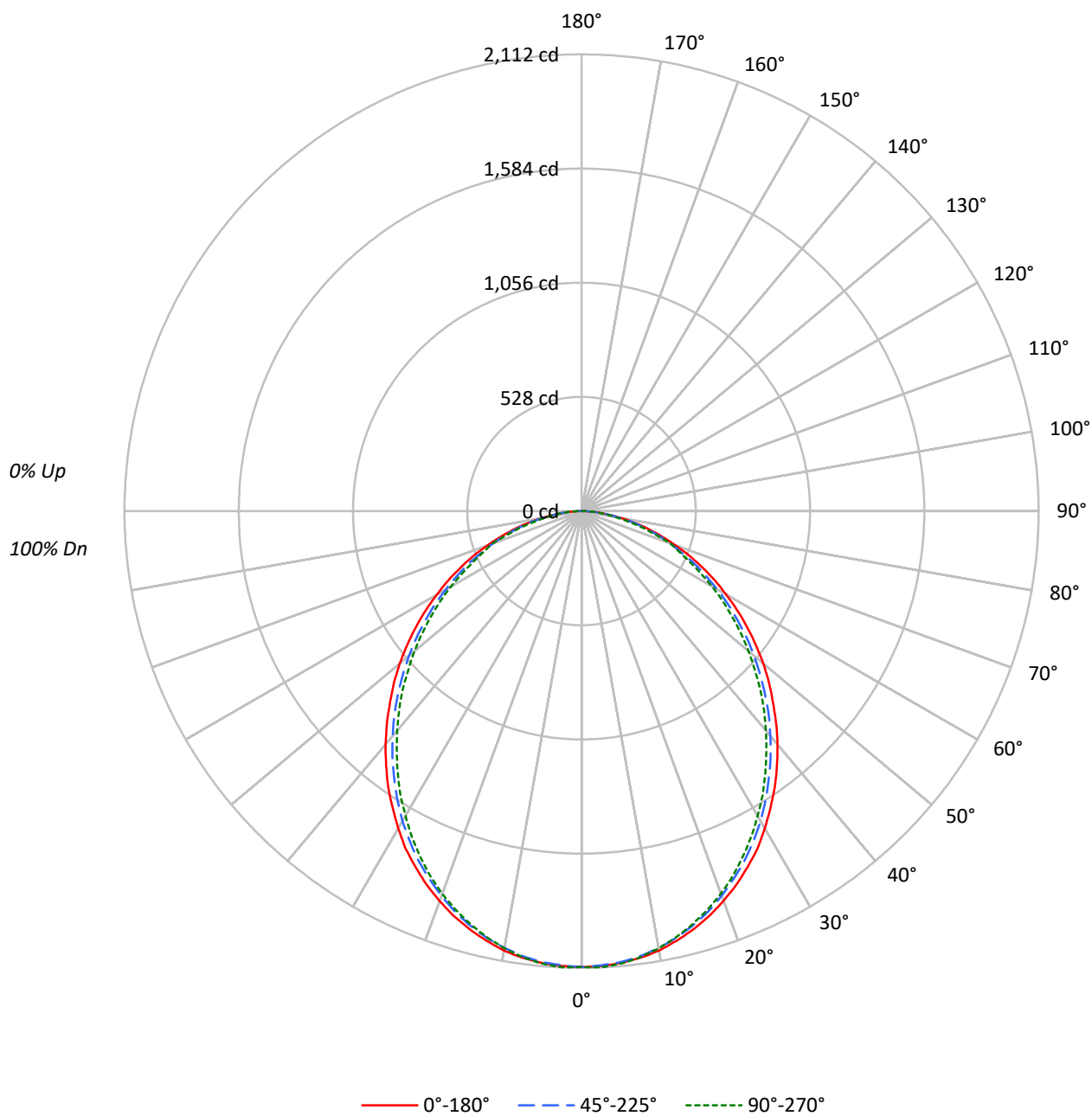
Lumens per Lamp: N/A
Luminaire Lumens: 5235.7 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 59.3
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	98	95	98	95	92	94	92	89	91	88	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	56	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32		32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	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°	5674	5674	5674
5°	5666	5653	5675
10°	5638	5605	5609
15°	5576	5529	5512
20°	5493	5422	5391
25°	5391	5295	5235
30°	5262	5142	5056
35°	5116	4958	4862
40°	4949	4769	4655
45°	4760	4566	4448
50°	4588	4355	4219
55°	4380	4125	3980
60°	4149	3891	3741
65°	3913	3657	3489
70°	3618	3410	3447
75°	3331	3139	2978
80°	2903	2783	2495
85°	2436	2294	2294

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.9	3.8
10°-20°	560.2	10.7
20°-30°	822.1	15.7
30°-40°	946.8	18.1
40°-50°	929.4	17.8
50°-60°	792.5	15.1
60°-70°	573.3	10.9
70°-80°	322.4	6.2
80°-90°	90.1	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°	1581.2	30.2
0°-40°	2528.0	48.3
0°-60°	4249.9	81.2
0°-90°	5235.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5235.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2108	2108	2108	2108	2108	
5°	2098	2099	2093	2099	2101	199
15°	2002	1998	1985	1982	1978	564
25°	1816	1802	1783	1769	1763	836
35°	1557	1539	1509	1489	1480	973
45°	1251	1235	1200	1176	1169	967
55°	934	913	879	858	848	835
65°	615	598	574	553	548	610
75°	320	314	302	290	286	339
85°	79	82	74	74	74	91
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2105.3	2106.9	2102.2	2109.9	2111.5
5°	2097.6	2099.1	2092.9	2099.1	2100.7
7.5°	2083.6	2083.6	2075.9	2080.5	2080.5
10°	2063.5	2060.4	2051.1	2052.7	2052.7
12.5°	2034.1	2034.1	2021.7	2021.7	2018.6
15°	2001.6	1998.5	1984.6	1981.5	1978.4
17.5°	1962.9	1958.2	1942.8	1936.6	1933.5
20°	1918.0	1910.3	1893.2	1885.5	1882.4
22.5°	1870.0	1859.2	1839.0	1829.8	1826.7
25°	1815.8	1801.9	1783.3	1769.4	1763.2
27.5°	1760.1	1746.2	1719.8	1704.4	1698.2
30°	1693.5	1679.6	1654.8	1636.3	1627.0
32.5°	1625.4	1613.0	1583.6	1563.5	1557.3
35°	1557.3	1538.7	1509.3	1489.2	1479.9
37.5°	1483.0	1467.5	1435.0	1413.3	1402.5
40°	1408.7	1393.2	1357.6	1334.4	1325.1
42.5°	1331.3	1311.2	1280.2	1255.4	1247.7
45°	1250.8	1235.3	1199.7	1176.5	1168.8
47.5°	1174.9	1151.7	1119.2	1096.0	1085.2
50°	1096.0	1074.3	1040.3	1015.5	1007.8
52.5°	1014.0	995.4	961.3	936.6	927.3
55°	933.5	913.3	879.3	857.6	848.3
57.5°	853.0	834.4	803.4	778.7	772.5
60°	770.9	753.9	722.9	702.8	695.1
62.5°	695.1	674.9	647.1	626.9	619.2
65°	614.6	597.5	574.3	552.6	548.0
67.5°	540.3	527.9	498.5	483.0	484.5
70°	459.8	459.8	433.4	418.0	438.1
72.5°	388.6	390.1	366.9	357.6	349.9
75°	320.4	314.2	301.9	289.5	286.4
77.5°	252.3	255.4	244.6	221.4	218.3
80°	187.3	204.3	179.6	164.1	161.0
82.5°	128.5	145.5	123.8	116.1	114.6
85°	78.9	82.0	74.3	74.3	74.3
87.5°	34.1	38.7	37.2	37.2	38.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)