

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-L835.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-L835.ies
Description: 1x4 D3X-LP AT 5000lm 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

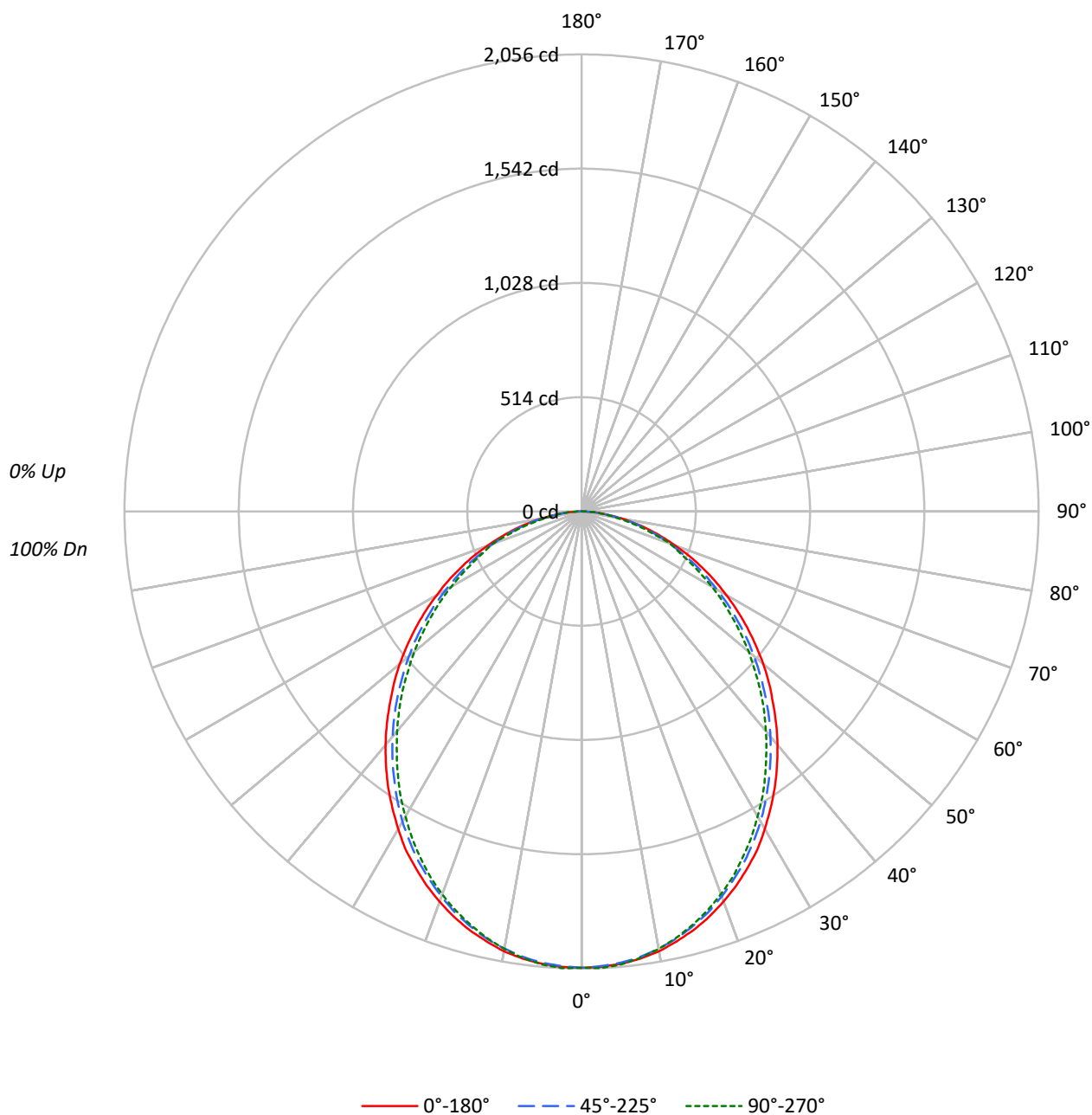
Lumens per Lamp: N/A
Luminaire Lumens: 5098.0 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	5525	5525	5525
5°	5517	5505	5525
10°	5490	5457	5461
15°	5430	5383	5367
20°	5348	5279	5249
25°	5250	5156	5097
30°	5124	5007	4923
35°	4981	4828	4734
40°	4819	4644	4533
45°	4635	4446	4331
50°	4468	4240	4108
55°	4264	4017	3875
60°	4040	3788	3643
65°	3810	3561	3398
70°	3522	3320	3356
75°	3244	3056	2900
80°	2827	2709	2430
85°	2374	2235	2235

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.7	3.8
10°-20°	545.5	10.7
20°-30°	800.5	15.7
30°-40°	921.9	18.1
40°-50°	905.0	17.8
50°-60°	771.6	15.1
60°-70°	558.2	10.9
70°-80°	313.9	6.2
80°-90°	87.7	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°	1539.6	30.2
0°-40°	2461.6	48.3
0°-60°	4138.2	81.2
0°-90°	5098.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5098.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2053	2053	2053	2053	2053	
5°	2042	2044	2038	2044	2045	194
15°	1949	1946	1932	1929	1926	549
25°	1768	1754	1736	1723	1717	814
35°	1516	1498	1470	1450	1441	947
45°	1218	1203	1168	1146	1138	941
55°	909	889	856	835	826	813
65°	598	582	559	538	534	594
75°	312	306	294	282	279	330
85°	77	80	72	72	72	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2053.0	2053.0	2053.0	2053.0	2053.0
2.5°	2050.0	2051.5	2046.9	2054.5	2056.0
5°	2042.4	2043.9	2037.9	2043.9	2045.4
7.5°	2028.9	2028.9	2021.3	2025.8	2025.8
10°	2009.3	2006.2	1997.2	1998.7	1998.7
12.5°	1980.6	1980.6	1968.6	1968.6	1965.5
15°	1949.0	1945.9	1932.4	1929.4	1926.4
17.5°	1911.3	1906.8	1891.7	1885.7	1882.6
20°	1867.6	1860.0	1843.5	1835.9	1832.9
22.5°	1820.8	1810.3	1790.7	1781.7	1778.6
25°	1768.1	1754.5	1736.4	1722.9	1716.8
27.5°	1713.8	1700.3	1674.6	1659.6	1653.5
30°	1649.0	1635.4	1611.3	1593.2	1584.2
32.5°	1582.7	1570.6	1542.0	1522.4	1516.4
35°	1516.4	1498.3	1469.6	1450.0	1441.0
37.5°	1444.0	1428.9	1397.3	1376.2	1365.6
40°	1371.7	1356.6	1321.9	1299.3	1290.3
42.5°	1296.3	1276.7	1246.6	1222.4	1214.9
45°	1217.9	1202.8	1168.2	1145.6	1138.0
47.5°	1144.1	1121.4	1089.8	1067.2	1056.6
50°	1067.2	1046.1	1012.9	988.8	981.3
52.5°	987.3	969.2	936.0	911.9	902.9
55°	908.9	889.3	856.2	835.1	826.0
57.5°	830.5	812.4	782.3	758.2	752.2
60°	750.6	734.1	703.9	684.3	676.8
62.5°	676.8	657.2	630.1	610.5	602.9
65°	598.4	581.8	559.2	538.1	533.6
67.5°	526.1	514.0	485.4	470.3	471.8
70°	447.7	447.7	422.0	407.0	426.6
72.5°	378.3	379.8	357.2	348.2	340.7
75°	312.0	306.0	293.9	281.9	278.9
77.5°	245.7	248.7	238.2	215.5	212.5
80°	182.4	199.0	174.8	159.8	156.8
82.5°	125.1	141.7	120.6	113.0	111.5
85°	76.9	79.9	72.4	72.4	72.4
87.5°	33.2	37.7	36.2	36.2	37.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)