

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-50-L840.ies

Issue Date: 2/27/2025

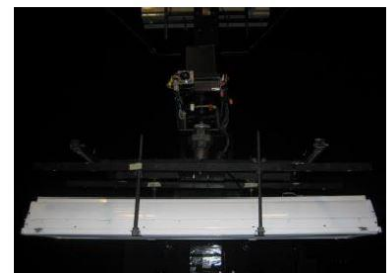
Test Information

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-50-L840.ies
Description: 1x4 D3X-LP ROUND PERF AT 5000lm 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

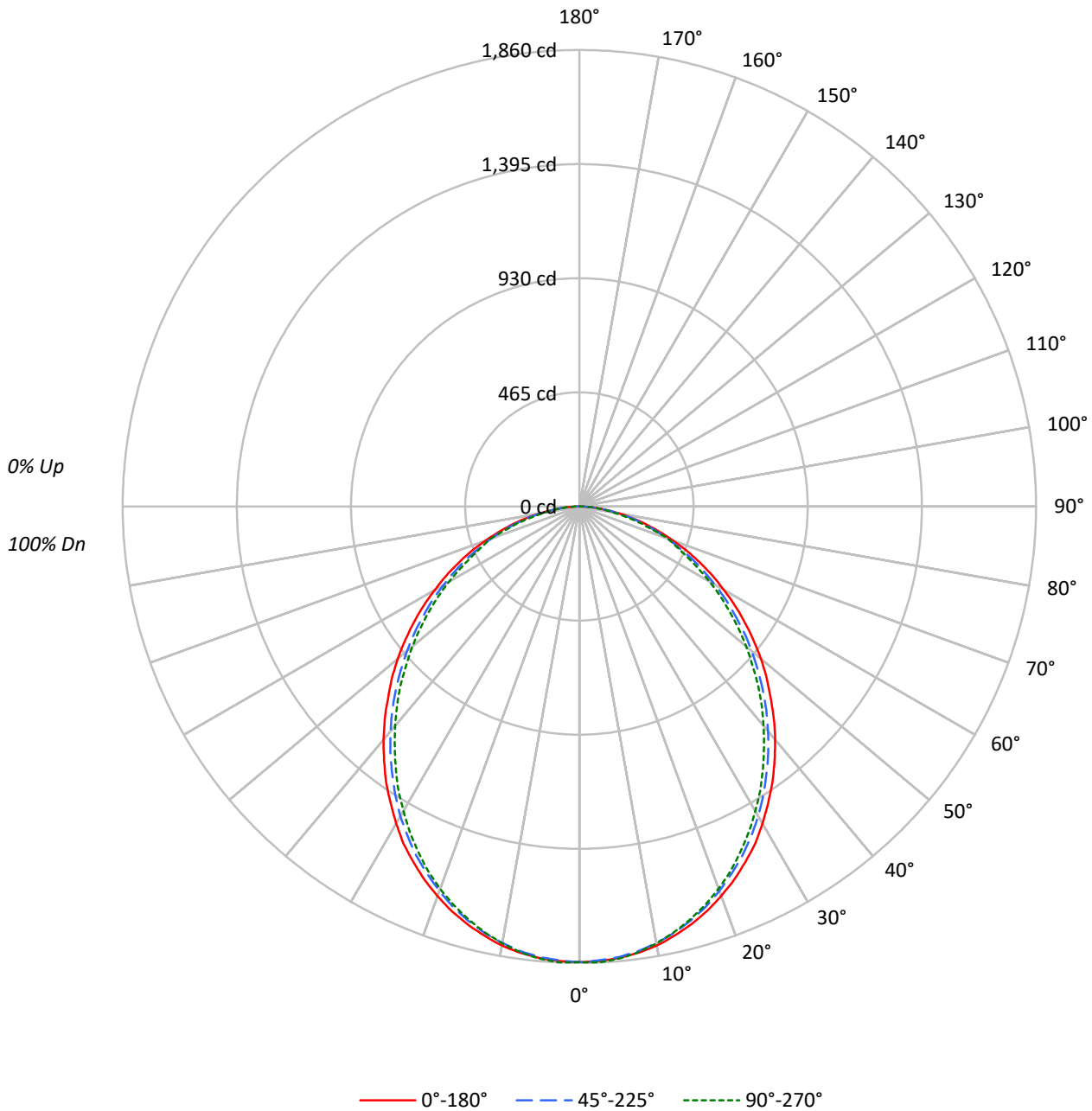
Lumens per Lamp: N/A
Luminaire Lumens: 4610.7 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.28
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 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				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4996	4996	4996
5°	4990	4979	4997
10°	4965	4936	4940
15°	4911	4869	4854
20°	4837	4774	4747
25°	4748	4663	4610
30°	4634	4528	4452
35°	4505	4367	4281
40°	4358	4200	4099
45°	4192	4021	3917
50°	4041	3835	3715
55°	3856	3633	3505
60°	3654	3426	3294
65°	3446	3221	3073
70°	3186	3003	3035
75°	2934	2764	2622
80°	2557	2450	2197
85°	2146	2019	2019

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 4192 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.1	3.8
10°-20°	493.3	10.7
20°-30°	724.0	15.7
30°-40°	833.8	18.1
40°-50°	818.5	17.8
50°-60°	697.9	15.1
60°-70°	504.8	10.9
70°-80°	283.9	6.2
80°-90°	79.3	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°	1392.5	30.2
0°-40°	2226.3	48.3
0°-60°	3742.7	81.2
0°-90°	4610.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4610.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1857	1857	1857	1857	1857	
5°	1847	1849	1843	1849	1850	175
15°	1763	1760	1748	1745	1742	497
25°	1599	1587	1570	1558	1553	736
35°	1371	1355	1329	1311	1303	857
45°	1102	1088	1056	1036	1029	851
55°	822	804	774	755	747	735
65°	541	526	506	487	483	537
75°	282	277	266	255	252	298
85°	70	72	65	65	65	80
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1856.7	1856.7	1856.7	1856.7	1856.7
2.5°	1854.0	1855.4	1851.3	1858.1	1859.5
5°	1847.2	1848.6	1843.1	1848.6	1849.9
7.5°	1834.9	1834.9	1828.1	1832.2	1832.2
10°	1817.2	1814.5	1806.3	1807.7	1807.7
12.5°	1791.3	1791.3	1780.4	1780.4	1777.7
15°	1762.7	1759.9	1747.7	1744.9	1742.2
17.5°	1728.6	1724.5	1710.9	1705.4	1702.7
20°	1689.1	1682.2	1667.2	1660.4	1657.7
22.5°	1646.8	1637.3	1619.5	1611.3	1608.6
25°	1599.1	1586.8	1570.5	1558.2	1552.7
27.5°	1550.0	1537.7	1514.6	1500.9	1495.5
30°	1491.4	1479.1	1457.3	1440.9	1432.8
32.5°	1431.4	1420.5	1394.6	1376.9	1371.4
35°	1371.4	1355.1	1329.2	1311.4	1303.3
37.5°	1306.0	1292.4	1263.7	1244.6	1235.1
40°	1240.5	1226.9	1195.6	1175.1	1166.9
42.5°	1172.4	1154.7	1127.4	1105.6	1098.8
45°	1101.5	1087.9	1056.5	1036.1	1029.2
47.5°	1034.7	1014.3	985.6	965.2	955.6
50°	965.2	946.1	916.1	894.3	887.5
52.5°	892.9	876.6	846.6	824.8	816.6
55°	822.0	804.3	774.3	755.2	747.1
57.5°	751.1	734.8	707.5	685.7	680.3
60°	678.9	663.9	636.6	618.9	612.1
62.5°	612.1	594.4	569.8	552.1	545.3
65°	541.2	526.2	505.8	486.7	482.6
67.5°	475.8	464.9	439.0	425.3	426.7
70°	404.9	404.9	381.7	368.1	385.8
72.5°	342.2	343.5	323.1	314.9	308.1
75°	282.2	276.7	265.8	254.9	252.2
77.5°	222.2	224.9	215.4	194.9	192.2
80°	165.0	179.9	158.1	144.5	141.8
82.5°	113.1	128.1	109.1	102.2	100.9
85°	69.5	72.3	65.4	65.4	65.4
87.5°	30.0	34.1	32.7	32.7	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)