

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: P601199

Luminaire Tested: 24D3X-LP-80-L940

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601199  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 24D3X-LP-80-L940  
Description: 2x4 D3X-LP AT 8000LM 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

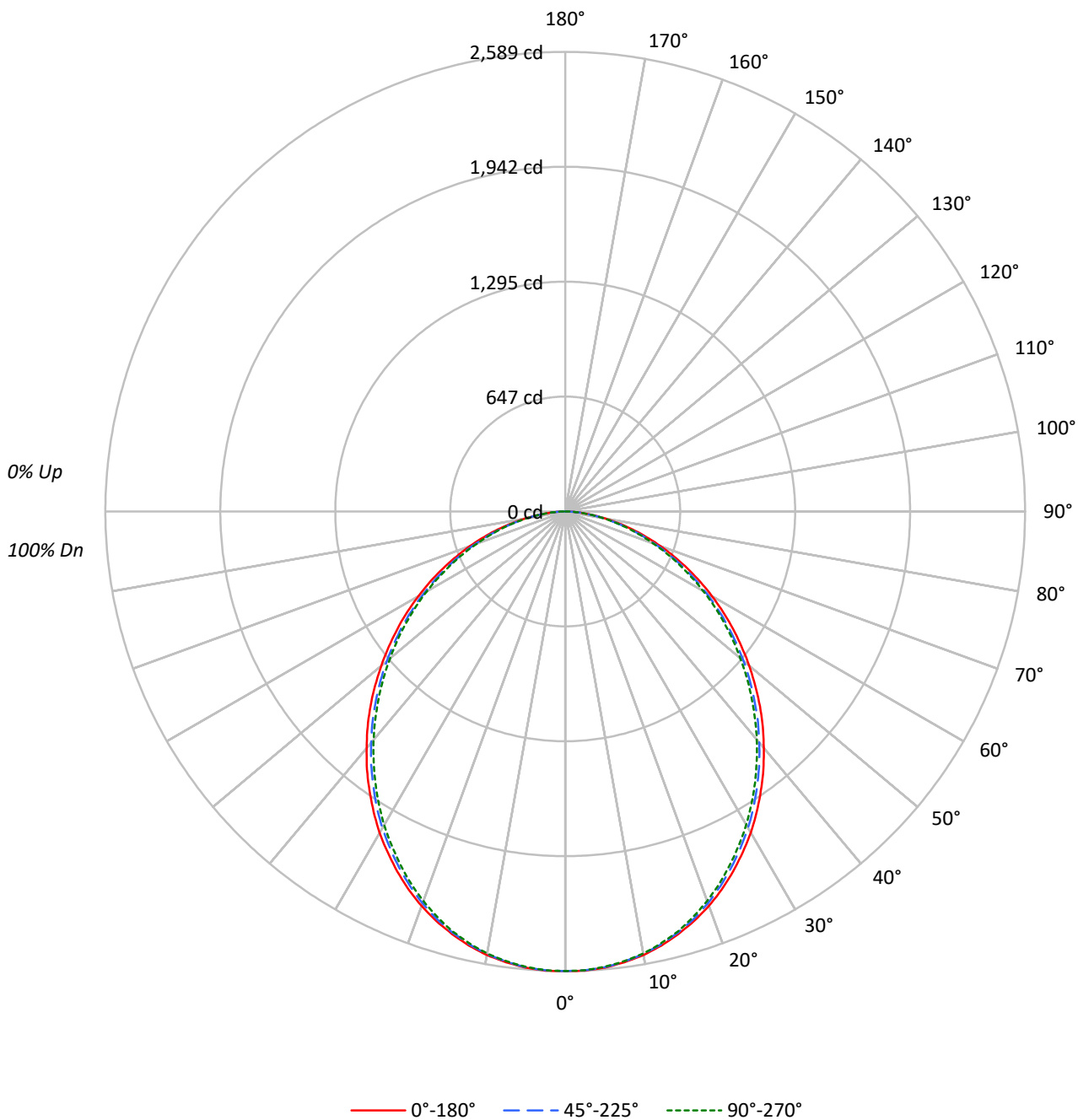
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6528.0 lumens  
Efficiency: N/A  
Efficacy: 106.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 61.2  
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: P601199  
CATALOG NUMBER: 24D3X-LP-80-L940

### Luminous Intensity Polar Plot





TEST NUMBER: P601199  
 CATALOG NUMBER: 24D3X-LP-80-L940

**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	99	95	98	95	92	94	92	89	91	89	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	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	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°	3483	3483	3483
5°	3484	3480	3477
10°	3467	3459	3455
15°	3432	3420	3412
20°	3386	3363	3344
25°	3321	3285	3259
30°	3247	3198	3167
35°	3155	3095	3061
40°	3055	2984	2948
45°	2951	2867	2825
50°	2830	2743	2694
55°	2706	2611	2562
60°	2566	2464	2418
65°	2416	2303	2256
70°	2247	2127	2074
75°	2039	1925	1893
80°	1767	1672	1681
85°	1457	1439	1343

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2951 cd/sqm



TEST NUMBER: P601199  
 CATALOG NUMBER: 24D3X-LP-80-L940

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.5	3.7
10°-20°	692.0	10.6
20°-30°	1019.9	15.6
30°-40°	1180.7	18.1
40°-50°	1165.6	17.9
50°-60°	998.4	15.3
60°-70°	721.8	11.1
70°-80°	397.9	6.1
80°-90°	107.2	1.6
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°	1956.5	30.0
0°-40°	3137.1	48.1
0°-60°	5301.1	81.2
0°-90°	6528.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6528.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2589	2589	2589	2589	2589	
5°	2579	2578	2577	2574	2574	245
15°	2464	2462	2455	2452	2449	695
25°	2237	2231	2213	2202	2196	1030
35°	1921	1909	1884	1868	1863	1201
45°	1551	1530	1507	1492	1484	1195
55°	1154	1132	1113	1097	1092	1031
65°	759	742	723	712	708	752
75°	392	380	370	369	364	416
85°	94	94	93	87	87	111
90°	0	0	0	0	0	



TEST NUMBER: P601199  
 CATALOG NUMBER: 24D3X-LP-80-L940

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2589.0	2589.0	2589.0	2589.0	2589.0
2.5°	2589.0	2589.0	2586.6	2586.6	2586.6
5°	2579.2	2578.0	2576.7	2574.3	2574.3
7.5°	2560.8	2560.8	2557.1	2557.1	2554.7
10°	2537.5	2535.1	2531.4	2531.4	2528.9
12.5°	2504.4	2502.0	2497.1	2495.8	2492.2
15°	2464.0	2461.5	2455.4	2451.7	2449.3
17.5°	2417.4	2413.7	2406.4	2400.2	2395.3
20°	2364.7	2359.8	2348.7	2341.4	2335.3
22.5°	2304.6	2299.7	2283.8	2275.2	2269.1
25°	2237.2	2231.1	2212.7	2201.6	2195.5
27.5°	2164.9	2157.5	2136.7	2124.4	2118.3
30°	2090.1	2079.1	2058.2	2043.5	2038.6
32.5°	2006.7	1995.7	1974.9	1957.7	1952.8
35°	1920.9	1908.7	1884.1	1868.2	1863.3
37.5°	1832.7	1816.7	1794.7	1778.7	1771.4
40°	1739.5	1723.6	1699.0	1681.9	1678.2
42.5°	1646.3	1626.7	1605.9	1588.7	1581.4
45°	1550.7	1529.9	1506.6	1491.9	1484.5
47.5°	1450.2	1430.6	1409.7	1392.6	1386.4
50°	1352.1	1331.3	1310.4	1294.5	1287.1
52.5°	1251.6	1230.8	1211.1	1197.7	1190.3
55°	1153.5	1131.5	1113.1	1097.1	1092.2
57.5°	1054.2	1034.6	1013.8	999.1	995.4
60°	953.7	936.6	915.7	902.2	898.6
62.5°	856.9	839.7	820.1	806.6	800.5
65°	758.8	741.6	723.3	712.2	708.5
67.5°	663.2	647.3	631.3	620.3	617.8
70°	571.2	555.3	540.6	530.8	527.1
72.5°	479.3	468.3	453.6	447.4	443.8
75°	392.3	380.0	370.2	369.0	364.1
77.5°	307.7	306.5	290.5	288.1	288.1
80°	228.0	224.3	215.8	213.3	217.0
82.5°	156.9	154.5	149.6	148.3	147.1
85°	94.4	94.4	93.2	87.0	87.0
87.5°	42.9	41.7	40.5	41.7	45.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)