

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: P601193

Luminaire Tested: 24D3X-LP-70-L940

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601193  
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-70-L940  
Description: 2x4 D3X-LP AT 7000LM 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

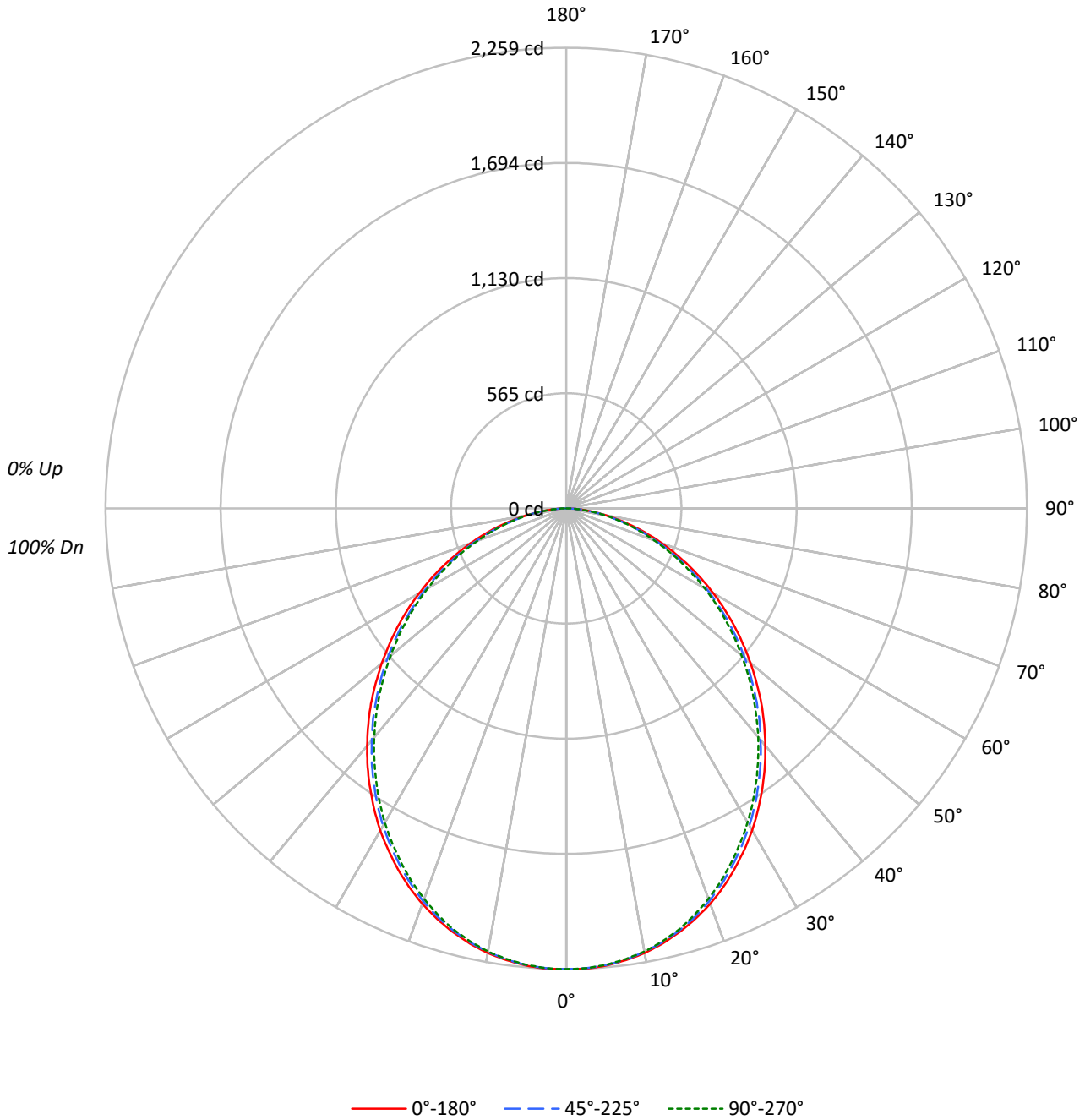
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5697.0 lumens  
Efficiency: N/A  
Efficacy: 110.6 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): 51.5  
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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3040	3040	3040
5°	3040	3037	3034
10°	3026	3018	3015
15°	2995	2985	2977
20°	2955	2935	2918
25°	2899	2867	2844
30°	2834	2791	2764
35°	2754	2701	2671
40°	2666	2604	2572
45°	2575	2502	2465
50°	2470	2394	2351
55°	2362	2279	2236
60°	2240	2150	2110
65°	2108	2010	1968
70°	1961	1856	1810
75°	1779	1680	1652
80°	1542	1459	1468
85°	1272	1255	1173

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2575 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	213.4	3.7
10°-20°	603.9	10.6
20°-30°	890.0	15.6
30°-40°	1030.4	18.1
40°-50°	1017.2	17.9
50°-60°	871.3	15.3
60°-70°	629.9	11.1
70°-80°	347.3	6.1
80°-90°	93.5	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°	1707.4	30.0
0°-40°	2737.8	48.1
0°-60°	4626.3	81.2
0°-90°	5697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5697.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2259	2259	2259	2259	2259	
5°	2251	2250	2249	2247	2247	214
15°	2150	2148	2143	2140	2138	606
25°	1952	1947	1931	1921	1916	899
35°	1676	1666	1644	1630	1626	1048
45°	1353	1335	1315	1302	1296	1043
55°	1007	987	971	958	953	900
65°	662	647	631	622	618	657
75°	342	332	323	322	318	363
85°	82	82	81	76	76	97
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2259.4	2259.4	2259.4	2259.4	2259.4
2.5°	2259.4	2259.4	2257.3	2257.3	2257.3
5°	2250.9	2249.8	2248.7	2246.6	2246.6
7.5°	2234.8	2234.8	2231.6	2231.6	2229.5
10°	2214.5	2212.4	2209.2	2209.2	2207.0
12.5°	2185.6	2183.5	2179.2	2178.1	2174.9
15°	2150.3	2148.2	2142.8	2139.6	2137.5
17.5°	2109.7	2106.5	2100.0	2094.7	2090.4
20°	2063.7	2059.4	2049.8	2043.3	2038.0
22.5°	2011.2	2007.0	1993.1	1985.6	1980.2
25°	1952.4	1947.0	1931.0	1921.4	1916.0
27.5°	1889.3	1882.9	1864.7	1854.0	1848.6
30°	1824.0	1814.4	1796.2	1783.4	1779.1
32.5°	1751.3	1741.6	1723.5	1708.5	1704.2
35°	1676.4	1665.7	1644.3	1630.4	1626.1
37.5°	1599.4	1585.5	1566.2	1552.3	1545.9
40°	1518.1	1504.1	1482.8	1467.8	1464.6
42.5°	1436.8	1419.6	1401.4	1386.5	1380.1
45°	1353.3	1335.1	1314.8	1302.0	1295.5
47.5°	1265.6	1248.5	1230.3	1215.3	1210.0
50°	1180.0	1161.8	1143.6	1129.7	1123.3
52.5°	1092.3	1074.1	1057.0	1045.2	1038.8
55°	1006.7	987.4	971.4	957.5	953.2
57.5°	920.0	902.9	884.7	871.9	868.7
60°	832.3	817.3	799.1	787.4	784.2
62.5°	747.8	732.8	715.7	703.9	698.6
65°	662.2	647.2	631.2	621.6	618.3
67.5°	578.8	564.9	551.0	541.3	539.2
70°	498.5	484.6	471.8	463.2	460.0
72.5°	418.3	408.7	395.8	390.5	387.3
75°	342.3	331.6	323.1	322.0	317.7
77.5°	268.5	267.5	253.5	251.4	251.4
80°	199.0	195.8	188.3	186.1	189.4
82.5°	136.9	134.8	130.5	129.4	128.4
85°	82.4	82.4	81.3	76.0	76.0
87.5°	37.4	36.4	35.3	36.4	39.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)