

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: P601212

Luminaire Tested: 14D3X-LP-20-L840

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601212  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/6/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: 14D3X-LP-20-L840  
Description: 1x4 D3X-LP AT 2000lm 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

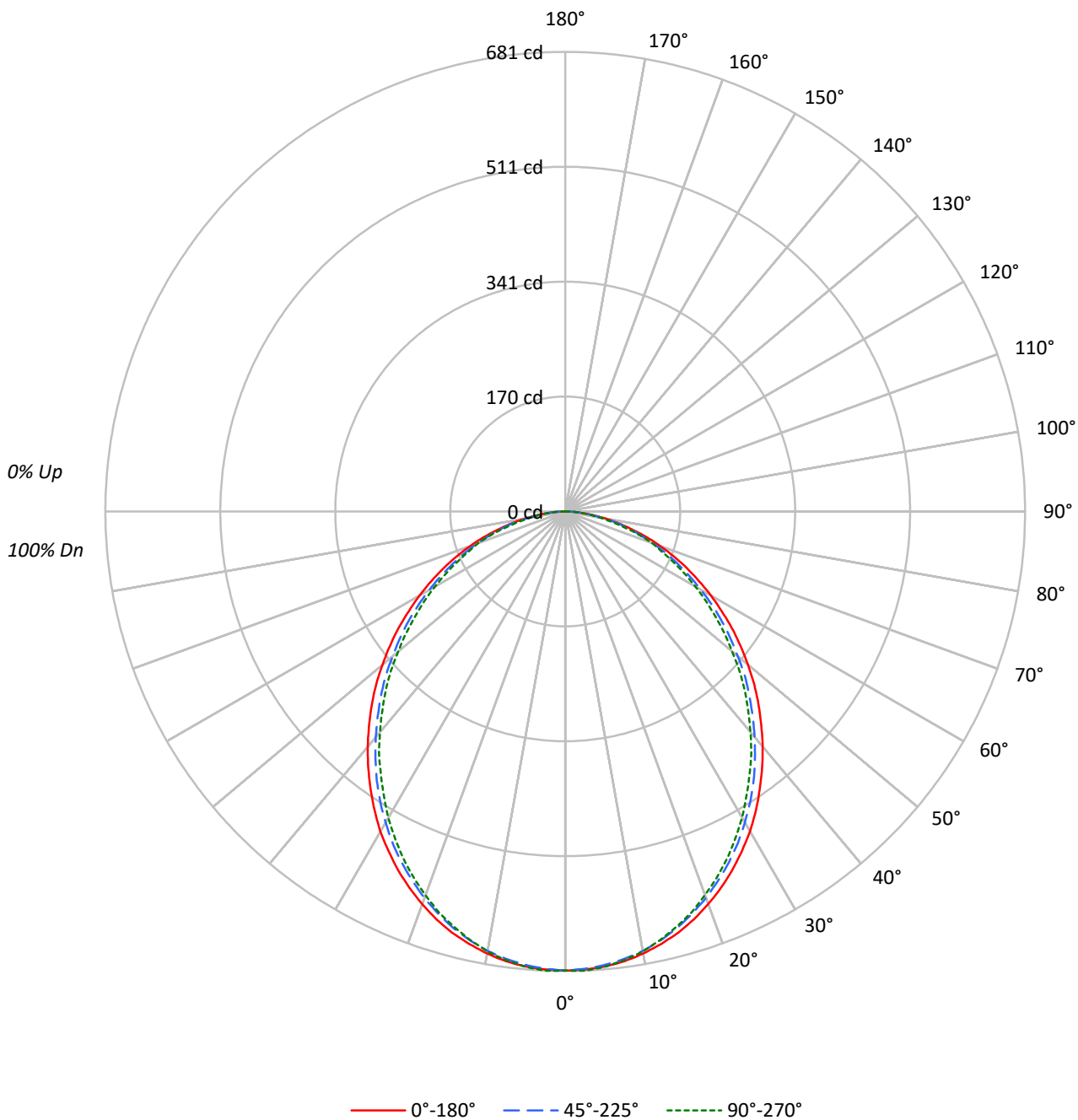
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1683.0 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 17.4  
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	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	79	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	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	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	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	1831	1831	1831
5°	1828	1822	1829
10°	1818	1807	1809
15°	1800	1780	1774
20°	1773	1745	1733
25°	1740	1703	1685
30°	1701	1653	1628
35°	1650	1598	1563
40°	1598	1533	1499
45°	1541	1467	1432
50°	1479	1395	1351
55°	1414	1329	1273
60°	1341	1248	1198
65°	1265	1170	1119
70°	1177	1090	1076
75°	1058	1007	934
80°	933	871	803
85°	750	750	738

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1541 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.1	3.8
10°-20°	180.5	10.7
20°-30°	264.6	15.7
30°-40°	304.8	18.1
40°-50°	299.1	17.8
50°-60°	254.5	15.1
60°-70°	184.0	10.9
70°-80°	102.8	6.1
80°-90°	28.6	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°	509.2	30.3
0°-40°	814.0	48.4
0°-60°	1367.6	81.3
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	680	680	680	680	680	
5°	677	677	674	677	677	64
15°	646	644	639	638	637	182
25°	586	581	574	569	567	270
35°	502	496	486	479	476	314
45°	405	397	386	378	376	312
55°	301	293	283	275	271	269
65°	199	193	184	177	176	197
75°	102	100	97	91	90	109
85°	24	26	24	24	24	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	680.3	680.3	680.3	680.3	680.3
2.5°	679.4	679.4	678.1	680.7	681.2
5°	676.7	676.7	674.5	676.7	677.2
7.5°	672.3	671.4	668.8	670.5	670.5
10°	665.2	664.3	661.2	661.7	662.1
12.5°	656.4	655.0	651.1	650.6	650.2
15°	646.2	644.0	639.1	638.2	636.9
17.5°	633.8	630.7	625.0	623.6	622.7
20°	619.2	615.2	609.5	606.4	605.0
22.5°	603.3	598.8	591.8	588.7	586.9
25°	586.0	581.1	573.6	569.2	567.4
27.5°	567.0	561.7	553.7	547.9	545.7
30°	547.5	540.9	532.0	526.3	524.0
32.5°	525.4	518.3	509.9	502.8	499.7
35°	502.4	495.7	486.4	478.9	475.8
37.5°	478.9	472.7	461.6	455.0	452.8
40°	455.0	447.9	436.4	428.4	426.7
42.5°	429.8	423.6	410.7	404.1	401.0
45°	405.0	397.0	385.5	378.0	376.2
47.5°	379.8	370.9	360.7	352.3	350.1
50°	353.2	345.2	333.3	325.8	322.7
52.5°	327.1	320.0	308.1	299.6	297.4
55°	301.4	293.4	283.3	275.3	271.3
57.5°	274.4	268.2	257.6	250.1	247.0
60°	249.2	242.1	231.9	225.7	222.6
62.5°	223.5	216.4	208.0	201.4	198.7
65°	198.7	193.4	183.7	176.6	175.7
67.5°	173.9	169.5	161.1	154.0	154.5
70°	149.6	145.6	138.5	134.1	136.8
72.5°	126.6	124.4	116.4	113.3	114.6
75°	101.8	100.5	96.9	91.2	89.8
77.5°	81.0	81.9	77.9	70.8	69.0
80°	60.2	62.4	56.2	54.0	51.8
82.5°	41.6	44.7	39.4	37.6	36.7
85°	24.3	25.7	24.3	23.9	23.9
87.5°	10.2	12.0	12.0	12.4	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)