

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: P601234

Luminaire Tested: 14D3X-LP-40-L830

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601234  
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-40-L830  
Description: 1x4 D3X-LP AT 4000lm 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

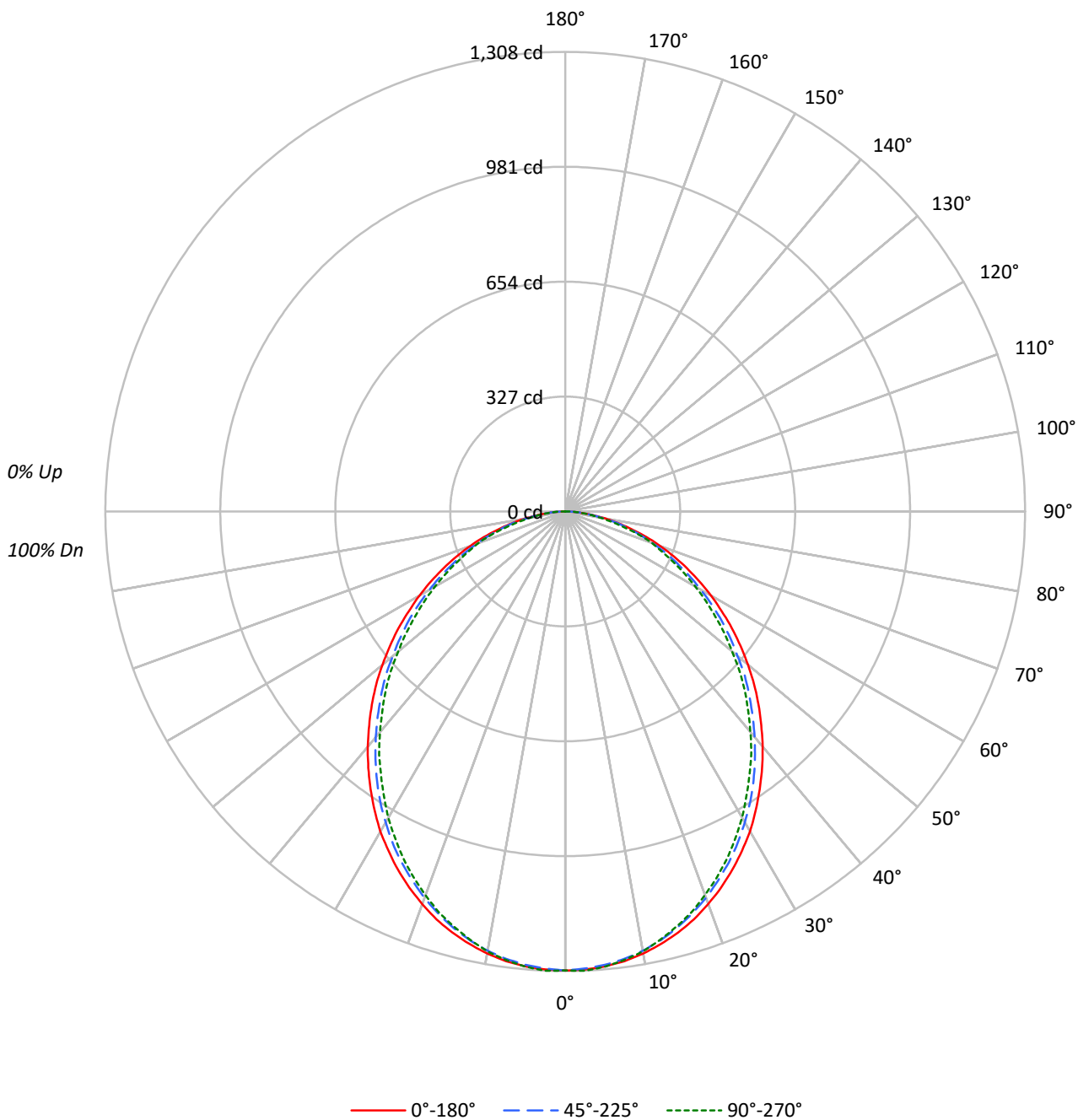
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3232.0 lumens  
Efficiency: N/A  
Efficacy: 85.5 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): 37.8  
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°	3515	3515	3515
5°	3511	3499	3513
10°	3491	3470	3474
15°	3457	3419	3407
20°	3405	3352	3327
25°	3341	3271	3236
30°	3267	3175	3127
35°	3169	3069	3002
40°	3070	2944	2878
45°	2960	2817	2750
50°	2840	2679	2594
55°	2715	2552	2444
60°	2575	2397	2301
65°	2430	2246	2148
70°	2260	2093	2066
75°	2033	1935	1794
80°	1791	1672	1540
85°	1442	1442	1417

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 2960 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.1	3.8
10°-20°	346.5	10.7
20°-30°	508.2	15.7
30°-40°	585.4	18.1
40°-50°	574.4	17.8
50°-60°	488.7	15.1
60°-70°	353.3	10.9
70°-80°	197.4	6.1
80°-90°	55.0	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°	977.9	30.3
0°-40°	1563.2	48.4
0°-60°	2626.3	81.3
0°-90°	3232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1300	1300	1295	1300	1300	123
15°	1241	1237	1227	1226	1223	350
25°	1125	1116	1102	1093	1090	518
35°	965	952	934	920	914	603
45°	778	762	740	726	722	600
55°	579	564	544	529	521	517
65°	382	371	353	339	337	378
75°	196	193	186	175	172	210
85°	47	49	47	46	46	55
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1306.4	1306.4	1306.4	1306.4	1306.4
2.5°	1304.7	1304.7	1302.1	1307.2	1308.1
5°	1299.6	1299.6	1295.3	1299.6	1300.4
7.5°	1291.1	1289.4	1284.3	1287.7	1287.7
10°	1277.5	1275.8	1269.8	1270.7	1271.5
12.5°	1260.5	1257.9	1250.3	1249.4	1248.6
15°	1240.9	1236.7	1227.3	1225.6	1223.1
17.5°	1217.1	1211.2	1200.1	1197.6	1195.9
20°	1189.1	1181.4	1170.4	1164.4	1161.9
22.5°	1158.5	1150.0	1136.4	1130.4	1127.0
25°	1125.3	1116.0	1101.6	1093.1	1089.7
27.5°	1088.8	1078.6	1063.3	1052.3	1048.0
30°	1051.4	1038.7	1021.7	1010.6	1006.4
32.5°	1008.9	995.3	979.2	965.6	959.6
35°	964.7	952.0	934.1	919.7	913.7
37.5°	919.7	907.8	886.5	873.8	869.5
40°	873.8	860.2	838.1	822.8	819.4
42.5°	825.3	813.4	788.8	776.0	770.1
45°	777.7	762.4	740.3	725.9	722.5
47.5°	729.3	712.3	692.7	676.6	672.3
50°	678.3	663.0	640.0	625.6	619.6
52.5°	628.1	614.5	591.6	575.4	571.2
55°	578.8	563.5	544.0	528.7	521.0
57.5°	527.0	515.1	494.7	480.2	474.3
60°	478.5	464.9	445.4	433.5	427.5
62.5°	429.2	415.6	399.5	386.7	381.6
65°	381.6	371.4	352.7	339.1	337.4
67.5°	334.0	325.5	309.4	295.8	296.6
70°	287.3	279.6	266.0	257.5	262.6
72.5°	243.1	238.8	223.5	217.6	220.1
75°	195.5	192.9	186.1	175.1	172.5
77.5°	155.5	157.2	149.6	136.0	132.6
80°	115.6	119.8	107.9	103.7	99.4
82.5°	79.9	85.8	75.6	72.2	70.5
85°	46.7	49.3	46.7	45.9	45.9
87.5°	19.5	22.9	22.9	23.8	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)