

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: P601210

Luminaire Tested: 14D3X-LP-20-L830

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601210  
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-L830  
Description: 1x4 D3X-LP 2000lm AT 3000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

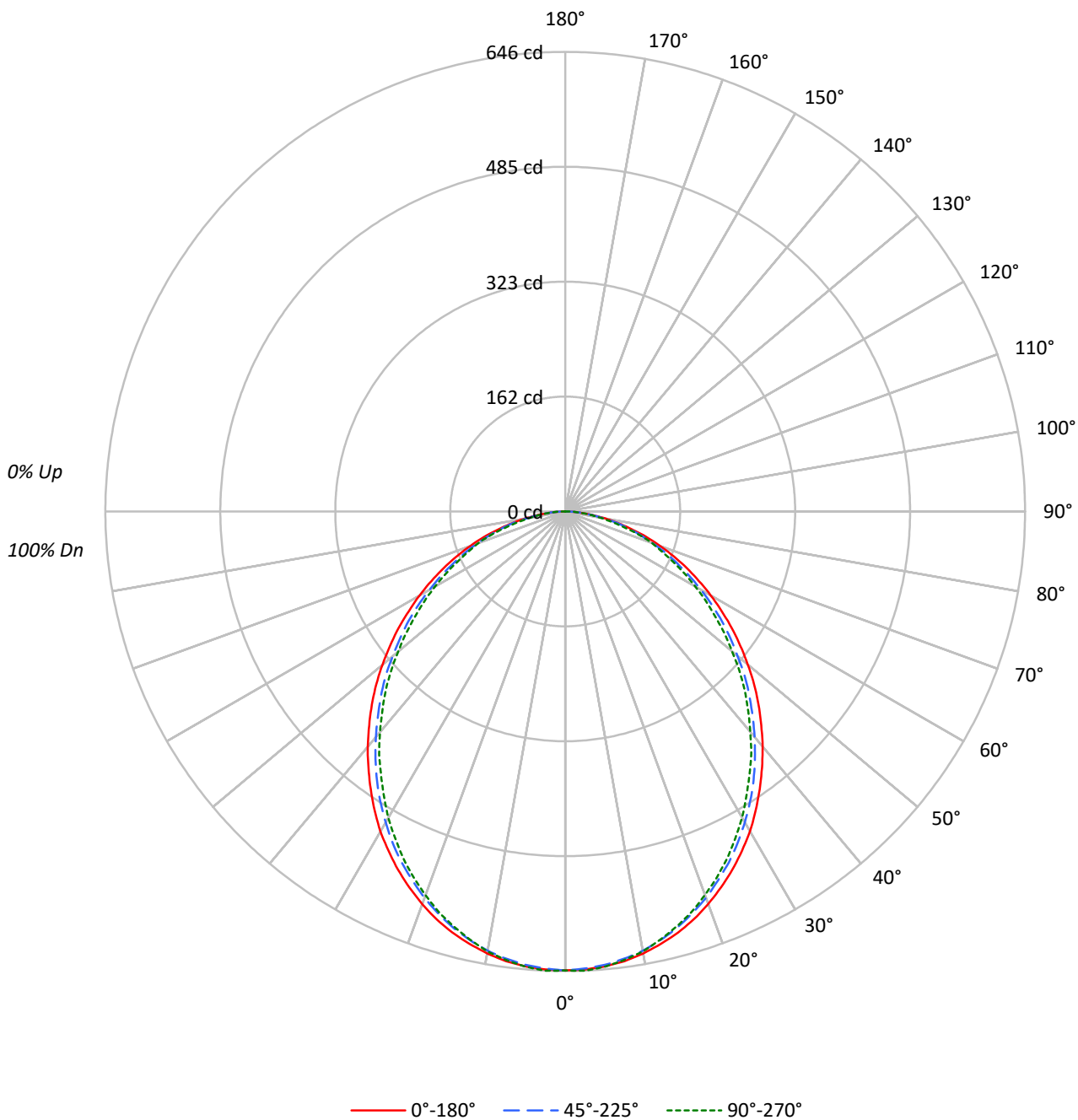
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1596.0 lumens  
Efficiency: N/A  
Efficacy: 91.7 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



TEST NUMBER: P601210  
CATALOG NUMBER: 14D3X-LP-20-L830

### Luminous Intensity Polar Plot





TEST NUMBER: P601210  
 CATALOG NUMBER: 14D3X-LP-20-L830

**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	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°	1736	1736	1736
5°	1734	1728	1735
10°	1724	1714	1716
15°	1707	1689	1683
20°	1682	1655	1643
25°	1650	1615	1598
30°	1613	1568	1544
35°	1565	1515	1482
40°	1516	1454	1421
45°	1461	1391	1358
50°	1402	1323	1281
55°	1341	1260	1207
60°	1272	1183	1136
65°	1200	1109	1061
70°	1116	1034	1020
75°	1003	955	886
80°	885	826	761
85°	713	713	701

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1461 cd/sqm



TEST NUMBER: P601210  
 CATALOG NUMBER: 14D3X-LP-20-L830

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	3.8
10°-20°	171.1	10.7
20°-30°	251.0	15.7
30°-40°	289.1	18.1
40°-50°	283.6	17.8
50°-60°	241.3	15.1
60°-70°	174.5	10.9
70°-80°	97.5	6.1
80°-90°	27.2	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°	482.9	30.3
0°-40°	771.9	48.4
0°-60°	1296.9	81.3
0°-90°	1596.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1596.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	645	645	645	645	645	
5°	642	642	640	642	642	61
15°	613	611	606	605	604	173
25°	556	551	544	540	538	256
35°	476	470	461	454	451	298
45°	384	376	366	358	357	296
55°	286	278	269	261	257	255
65°	188	183	174	168	167	187
75°	96	95	92	86	85	104
85°	23	24	23	23	23	27
90°	0	0	0	0	0	



TEST NUMBER: P601210  
 CATALOG NUMBER: 14D3X-LP-20-L830

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	645.1	645.1	645.1	645.1	645.1
2.5°	644.3	644.3	643.0	645.5	646.0
5°	641.8	641.8	639.7	641.8	642.2
7.5°	637.6	636.7	634.2	635.9	635.9
10°	630.8	630.0	627.1	627.5	627.9
12.5°	622.4	621.2	617.4	617.0	616.6
15°	612.8	610.7	606.1	605.2	604.0
17.5°	601.0	598.1	592.6	591.4	590.5
20°	587.2	583.4	578.0	575.0	573.8
22.5°	572.1	567.9	561.2	558.2	556.6
25°	555.7	551.1	544.0	539.8	538.1
27.5°	537.7	532.6	525.1	519.6	517.5
30°	519.2	512.9	504.5	499.0	496.9
32.5°	498.2	491.5	483.5	476.8	473.9
35°	476.4	470.1	461.3	454.1	451.2
37.5°	454.1	448.3	437.8	431.5	429.4
40°	431.5	424.8	413.8	406.3	404.6
42.5°	407.5	401.7	389.5	383.2	380.3
45°	384.0	376.5	365.6	358.4	356.8
47.5°	360.1	351.7	342.1	334.1	332.0
50°	334.9	327.4	316.0	308.9	306.0
52.5°	310.2	303.5	292.1	284.2	282.1
55°	285.8	278.3	268.6	261.1	257.3
57.5°	260.2	254.4	244.3	237.1	234.2
60°	236.3	229.6	219.9	214.1	211.1
62.5°	212.0	205.2	197.3	191.0	188.5
65°	188.5	183.4	174.2	167.5	166.6
67.5°	165.0	160.8	152.8	146.1	146.5
70°	141.9	138.1	131.4	127.2	129.7
72.5°	120.0	117.9	110.4	107.4	108.7
75°	96.5	95.3	91.9	86.5	85.2
77.5°	76.8	77.6	73.9	67.2	65.5
80°	57.1	59.2	53.3	51.2	49.1
82.5°	39.5	42.4	37.4	35.7	34.8
85°	23.1	24.3	23.1	22.7	22.7
87.5°	9.7	11.3	11.3	11.8	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)