

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: P601247

Luminaire Tested: 14D3X-LP-50-L835

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601247  
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-50-L835  
Description: 1x4 D3X-LP AT 5000lm 3500K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

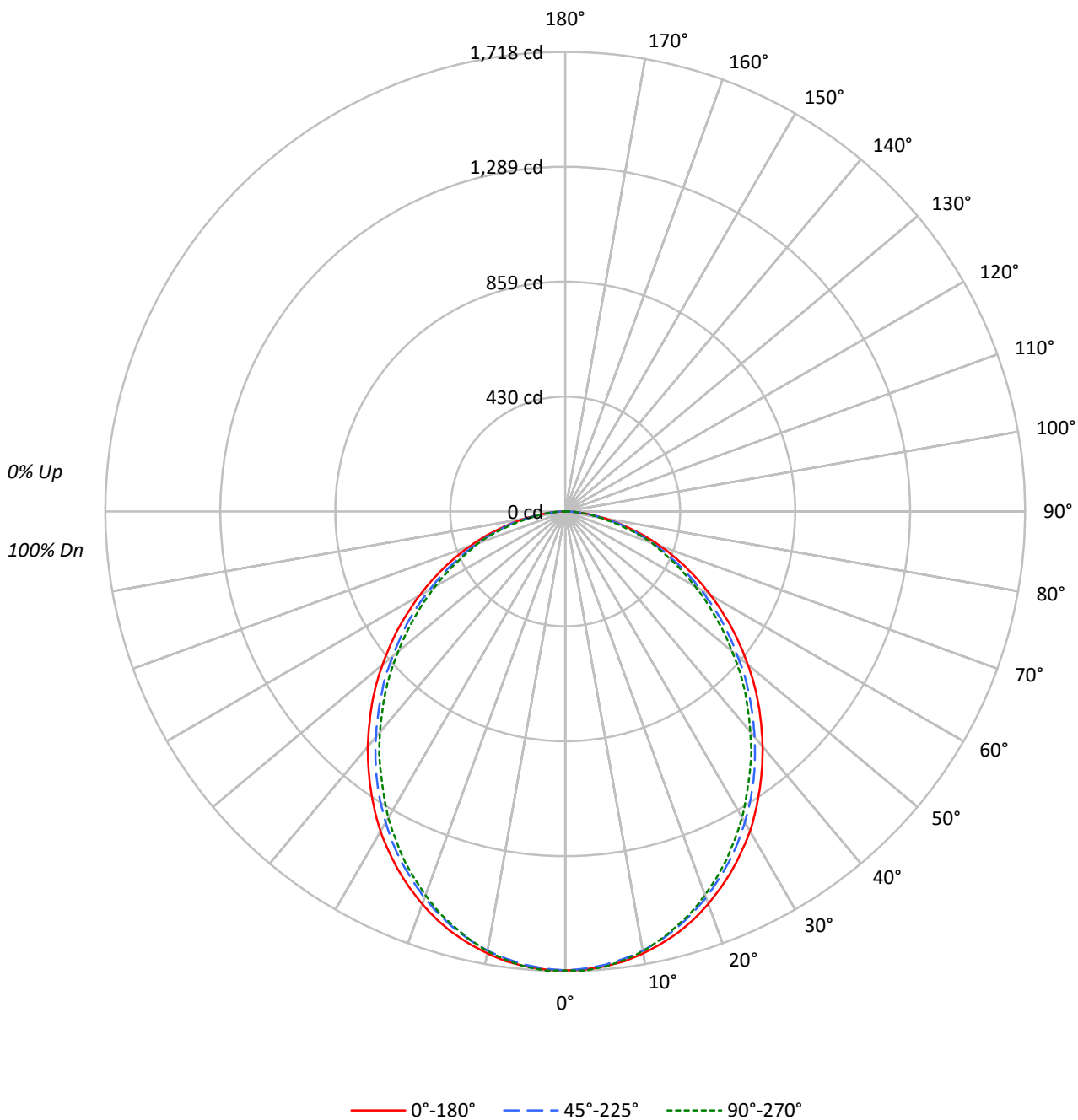
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4244.0 lumens  
Efficiency: N/A  
Efficacy: 87.3 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): 48.6  
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°	4616	4616	4616
5°	4610	4595	4613
10°	4584	4556	4562
15°	4540	4490	4474
20°	4471	4401	4369
25°	4388	4295	4248
30°	4290	4169	4106
35°	4162	4029	3941
40°	4031	3866	3779
45°	3886	3699	3610
50°	3728	3518	3406
55°	3566	3351	3210
60°	3382	3147	3021
65°	3191	2949	2821
70°	2968	2748	2714
75°	2669	2541	2356
80°	2352	2196	2024
85°	1896	1896	1862

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3886 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	161.7	3.8
10°-20°	455.0	10.7
20°-30°	667.3	15.7
30°-40°	768.6	18.1
40°-50°	754.2	17.8
50°-60°	641.7	15.1
60°-70°	464.0	10.9
70°-80°	259.2	6.1
80°-90°	72.2	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°	1284.0	30.3
0°-40°	2052.7	48.4
0°-60°	3448.6	81.3
0°-90°	4244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1706	1706	1701	1706	1708	162
15°	1630	1624	1612	1609	1606	459
25°	1478	1465	1446	1435	1431	680
35°	1267	1250	1227	1208	1200	792
45°	1021	1001	972	953	949	788
55°	760	740	714	694	684	679
65°	501	488	463	445	443	496
75°	257	253	244	230	227	275
85°	61	65	61	60	60	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1715.4	1715.4	1715.4	1715.4	1715.4
2.5°	1713.2	1713.2	1709.9	1716.6	1717.7
5°	1706.5	1706.5	1700.9	1706.5	1707.6
7.5°	1695.4	1693.1	1686.4	1690.9	1690.9
10°	1677.5	1675.3	1667.5	1668.6	1669.7
12.5°	1655.2	1651.8	1641.8	1640.7	1639.6
15°	1629.5	1623.9	1611.6	1609.4	1606.1
17.5°	1598.3	1590.4	1575.9	1572.6	1570.4
20°	1561.4	1551.4	1536.9	1529.1	1525.7
22.5°	1521.2	1510.1	1492.2	1484.4	1479.9
25°	1477.7	1465.4	1446.5	1435.3	1430.8
27.5°	1429.7	1416.3	1396.2	1381.7	1376.2
30°	1380.6	1363.9	1341.6	1327.0	1321.5
32.5°	1324.8	1307.0	1285.7	1267.9	1260.1
35°	1266.8	1250.0	1226.6	1207.6	1199.8
37.5°	1207.6	1192.0	1164.1	1147.4	1141.8
40°	1147.4	1129.5	1100.5	1080.4	1075.9
42.5°	1083.7	1068.1	1035.7	1019.0	1011.2
45°	1021.2	1001.1	972.1	953.1	948.7
47.5°	957.6	935.3	909.6	888.4	882.8
50°	890.6	870.6	840.4	821.4	813.6
52.5°	824.8	806.9	776.8	755.6	750.0
55°	760.1	740.0	714.3	694.2	684.2
57.5°	692.0	676.4	649.6	630.6	622.8
60°	628.4	610.5	584.8	569.2	561.4
62.5°	563.6	545.8	524.6	507.8	501.1
65°	501.1	487.7	463.2	445.3	443.1
67.5°	438.6	427.5	406.3	388.4	389.5
70°	377.2	367.2	349.3	338.2	344.9
72.5°	319.2	313.6	293.5	285.7	289.1
75°	256.7	253.4	244.4	229.9	226.6
77.5°	204.2	206.5	196.4	178.6	174.1
80°	151.8	157.4	141.7	136.2	130.6
82.5°	104.9	112.7	99.3	94.9	92.6
85°	61.4	64.7	61.4	60.3	60.3
87.5°	25.7	30.1	30.1	31.3	32.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)