

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: P601110

Luminaire Tested: 22D3X-LP-45-L830

Issue Date: 10/5/2023

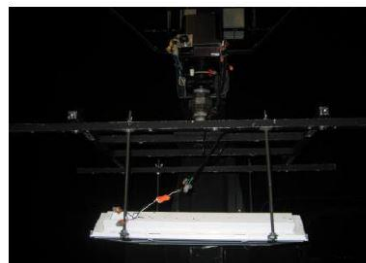
Test Information

Test Method: LM-79-2019
Report Number: P601110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 10/5/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-45-L830
Description: 2x2 D3X-LP AT 4500LM 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

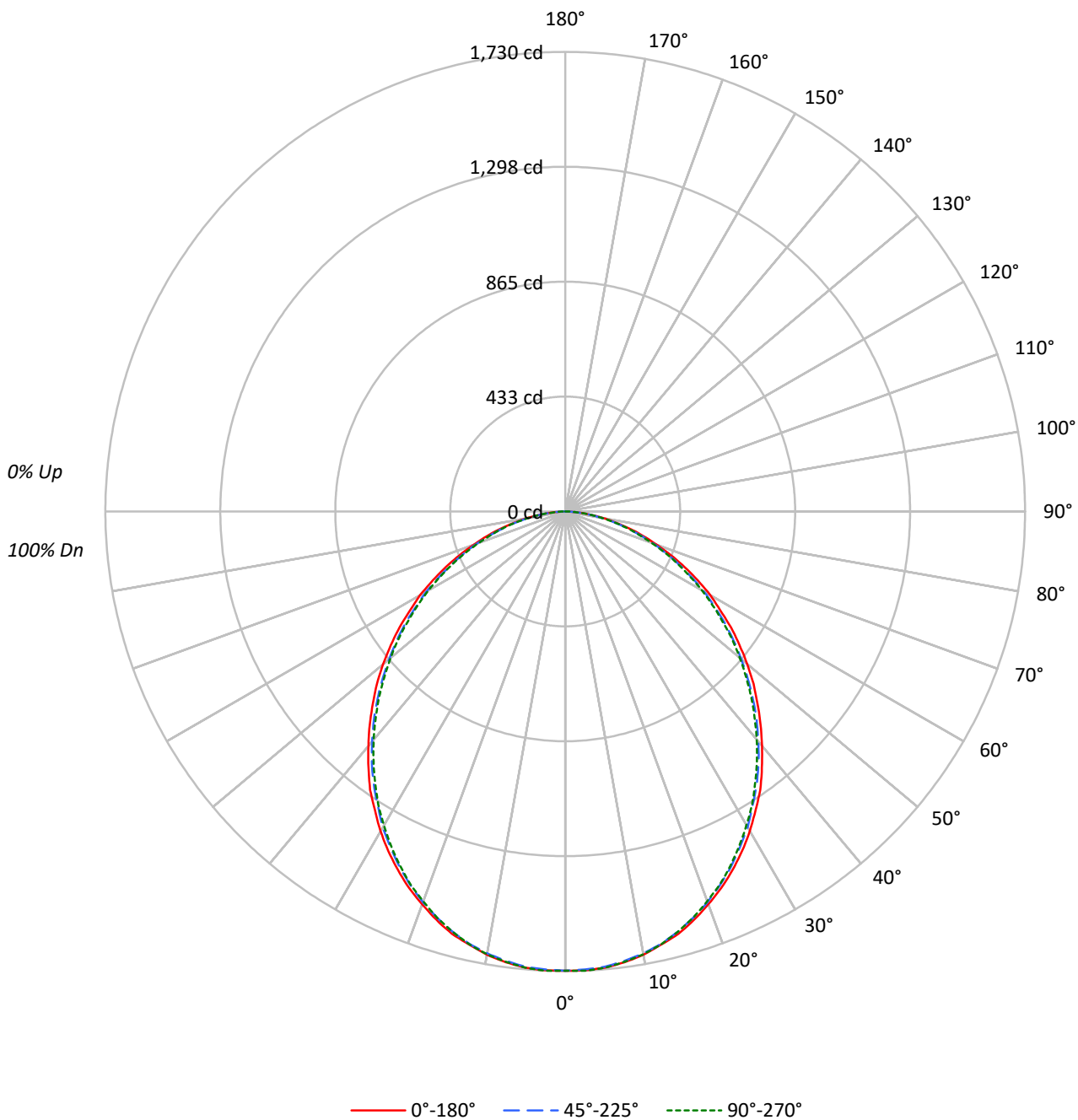
Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 114.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	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	36
8	62	49	40	34	60	48	40	34	47	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°	4652	4652	4652
5°	4656	4646	4656
10°	4630	4616	4625
15°	4586	4562	4562
20°	4507	4482	4472
25°	4422	4381	4366
30°	4318	4264	4237
35°	4203	4123	4095
40°	4046	3968	3938
45°	3892	3801	3768
50°	3741	3619	3590
55°	3571	3441	3393
60°	3392	3244	3197
65°	3158	3004	2971
70°	2886	2777	2710
75°	2632	2470	2488
80°	2269	2134	2162
85°	1754	1701	1596

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3892 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.3	3.8
10°-20°	461.7	10.7
20°-30°	680.1	15.7
30°-40°	786.7	18.2
40°-50°	773.4	17.9
50°-60°	659.1	15.3
60°-70°	472.3	10.9
70°-80°	256.5	5.9
80°-90°	66.9	1.5
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°	1305.1	30.2
0°-40°	2091.8	48.4
0°-60°	3524.3	81.6
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1729	1729	1729	1729	1729	
5°	1724	1720	1720	1720	1724	164
15°	1646	1639	1638	1636	1638	463
25°	1489	1482	1476	1472	1470	686
35°	1279	1269	1255	1248	1247	798
45°	1023	1016	999	990	990	790
55°	761	747	734	725	723	680
65°	496	486	472	467	467	491
75°	253	244	238	234	239	267
85°	57	57	55	53	52	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1728.8	1728.8	1728.8	1728.8	1728.8
2.5°	1728.8	1727.0	1725.3	1727.0	1730.5
5°	1723.6	1720.1	1720.1	1720.1	1723.6
7.5°	1711.5	1708.1	1706.4	1708.1	1709.8
10°	1694.3	1690.9	1689.2	1690.9	1692.6
12.5°	1670.2	1668.5	1666.8	1666.8	1668.5
15°	1646.1	1639.2	1637.5	1635.8	1637.5
17.5°	1611.7	1609.9	1603.1	1603.1	1603.1
20°	1573.8	1570.3	1565.2	1561.7	1561.7
22.5°	1534.2	1530.7	1522.1	1518.7	1520.4
25°	1489.4	1482.5	1475.6	1472.2	1470.5
27.5°	1441.2	1434.3	1424.0	1418.8	1418.8
30°	1389.5	1384.4	1372.3	1365.4	1363.7
32.5°	1332.7	1329.3	1312.1	1308.6	1308.6
35°	1279.3	1269.0	1255.2	1248.4	1246.6
37.5°	1215.6	1208.8	1195.0	1186.4	1184.6
40°	1151.9	1143.3	1129.5	1122.7	1120.9
42.5°	1088.2	1079.6	1065.8	1057.2	1055.5
45°	1022.8	1015.9	998.7	990.1	990.1
47.5°	960.8	947.0	931.5	924.6	922.9
50°	893.7	881.6	864.4	857.5	857.5
52.5°	826.5	817.9	798.9	795.5	792.1
55°	761.1	747.3	733.5	724.9	723.2
57.5°	690.5	678.4	664.6	657.8	657.8
60°	630.2	614.7	602.7	594.0	594.0
62.5°	561.3	547.6	535.5	530.3	528.6
65°	495.9	485.6	471.8	466.6	466.6
67.5°	430.5	421.9	409.8	404.6	406.4
70°	366.8	361.6	353.0	346.1	344.4
72.5°	308.2	301.3	292.7	291.0	291.0
75°	253.1	244.5	237.6	234.2	239.3
77.5°	196.3	191.1	187.7	186.0	187.7
80°	146.4	139.5	137.7	139.5	139.5
82.5°	101.6	98.1	96.4	96.4	96.4
85°	56.8	56.8	55.1	53.4	51.7
87.5°	22.4	22.4	24.1	24.1	25.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)