

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: P601113

Luminaire Tested: 22D3X-LP-45-L930

Issue Date: 10/5/2023

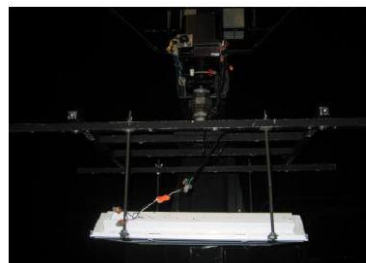
Test Information

Test Method: LM-79-2019
Report Number: P601113
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-L930
Description: 2x2 D3X-LP AT 4500LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

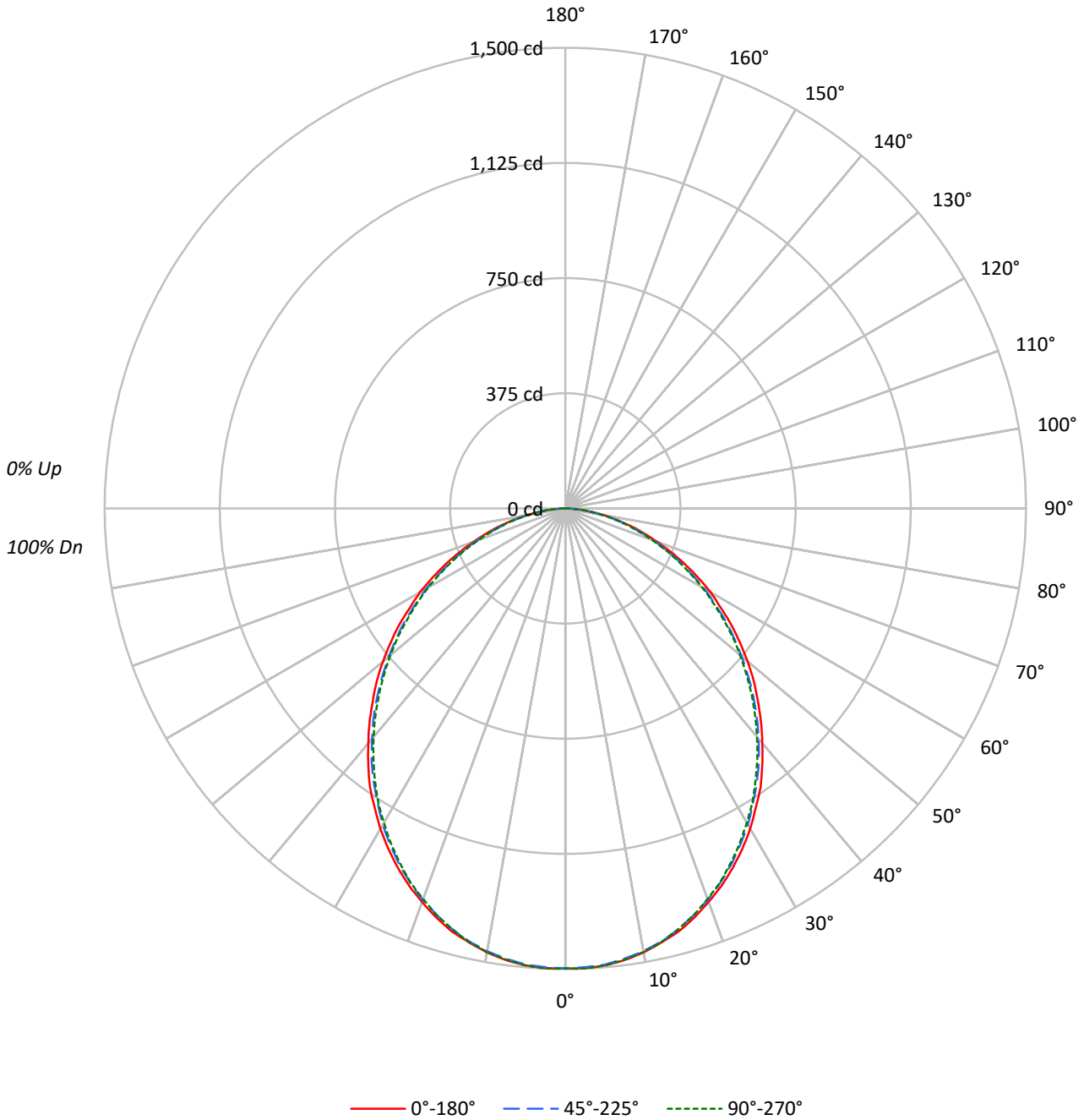
Lumens per Lamp: N/A
Luminaire Lumens: 3744.0 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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°	4032	4032	4032
5°	4035	4027	4035
10°	4012	4000	4008
15°	3974	3954	3954
20°	3906	3885	3876
25°	3833	3797	3784
30°	3742	3696	3672
35°	3642	3574	3549
40°	3507	3439	3413
45°	3373	3294	3266
50°	3242	3136	3111
55°	3095	2982	2941
60°	2940	2811	2771
65°	2737	2604	2575
70°	2501	2407	2349
75°	2281	2141	2156
80°	1965	1850	1874
85°	1519	1476	1383

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3373 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.5	3.8
10°-20°	400.2	10.7
20°-30°	589.4	15.7
30°-40°	681.8	18.2
40°-50°	670.3	17.9
50°-60°	571.2	15.3
60°-70°	409.3	10.9
70°-80°	222.3	5.9
80°-90°	58.0	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°	1131.1	30.2
0°-40°	1812.9	48.4
0°-60°	3054.4	81.6
0°-90°	3744.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3744.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1498	1498	1498	1498	1498	
5°	1494	1491	1491	1491	1494	142
15°	1427	1421	1419	1418	1419	402
25°	1291	1285	1279	1276	1274	594
35°	1109	1100	1088	1082	1080	691
45°	886	880	866	858	858	685
55°	660	648	636	628	627	589
65°	430	421	409	404	404	426
75°	219	212	206	203	207	232
85°	49	49	48	46	45	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1498.3	1498.3	1498.3	1498.3	1498.3
2.5°	1498.3	1496.8	1495.3	1496.8	1499.7
5°	1493.8	1490.8	1490.8	1490.8	1493.8
7.5°	1483.3	1480.3	1478.9	1480.3	1481.8
10°	1468.4	1465.4	1463.9	1465.4	1466.9
12.5°	1447.5	1446.0	1444.5	1444.5	1446.0
15°	1426.6	1420.7	1419.2	1417.7	1419.2
17.5°	1396.8	1395.3	1389.3	1389.3	1389.3
20°	1363.9	1361.0	1356.5	1353.5	1353.5
22.5°	1329.6	1326.6	1319.2	1316.2	1317.7
25°	1290.8	1284.9	1278.9	1275.9	1274.4
27.5°	1249.0	1243.1	1234.1	1229.6	1229.6
30°	1204.3	1199.8	1189.4	1183.4	1181.9
32.5°	1155.0	1152.0	1137.1	1134.1	1134.1
35°	1108.8	1099.8	1087.9	1081.9	1080.4
37.5°	1053.6	1047.6	1035.6	1028.2	1026.7
40°	998.3	990.9	978.9	973.0	971.5
42.5°	943.1	935.7	923.7	916.3	914.8
45°	886.4	880.4	865.5	858.1	858.1
47.5°	832.7	820.8	807.3	801.4	799.9
50°	774.5	764.1	749.1	743.2	743.2
52.5°	716.3	708.8	692.4	689.4	686.5
55°	659.6	647.7	635.7	628.3	626.8
57.5°	598.4	588.0	576.0	570.1	570.1
60°	546.2	532.7	522.3	514.8	514.8
62.5°	486.5	474.5	464.1	459.6	458.1
65°	429.8	420.8	408.9	404.4	404.4
67.5°	373.1	365.6	355.2	350.7	352.2
70°	317.9	313.4	305.9	299.9	298.5
72.5°	267.1	261.2	253.7	252.2	252.2
75°	219.4	211.9	205.9	203.0	207.4
77.5°	170.1	165.6	162.7	161.2	162.7
80°	126.8	120.9	119.4	120.9	120.9
82.5°	88.0	85.1	83.6	83.6	83.6
85°	49.2	49.2	47.8	46.3	44.8
87.5°	19.4	19.4	20.9	20.9	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)