

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: P601119

Luminaire Tested: 22D3X-LP-50-L930

Issue Date: 10/5/2023

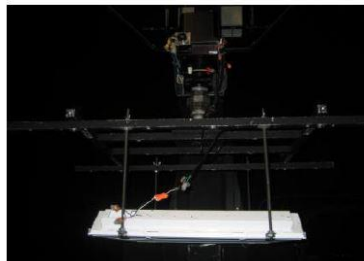
Test Information

Test Method: LM-79-2019
Report Number: P601119
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-50-L930
Description: 2x2 D3X-LP AT 5000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

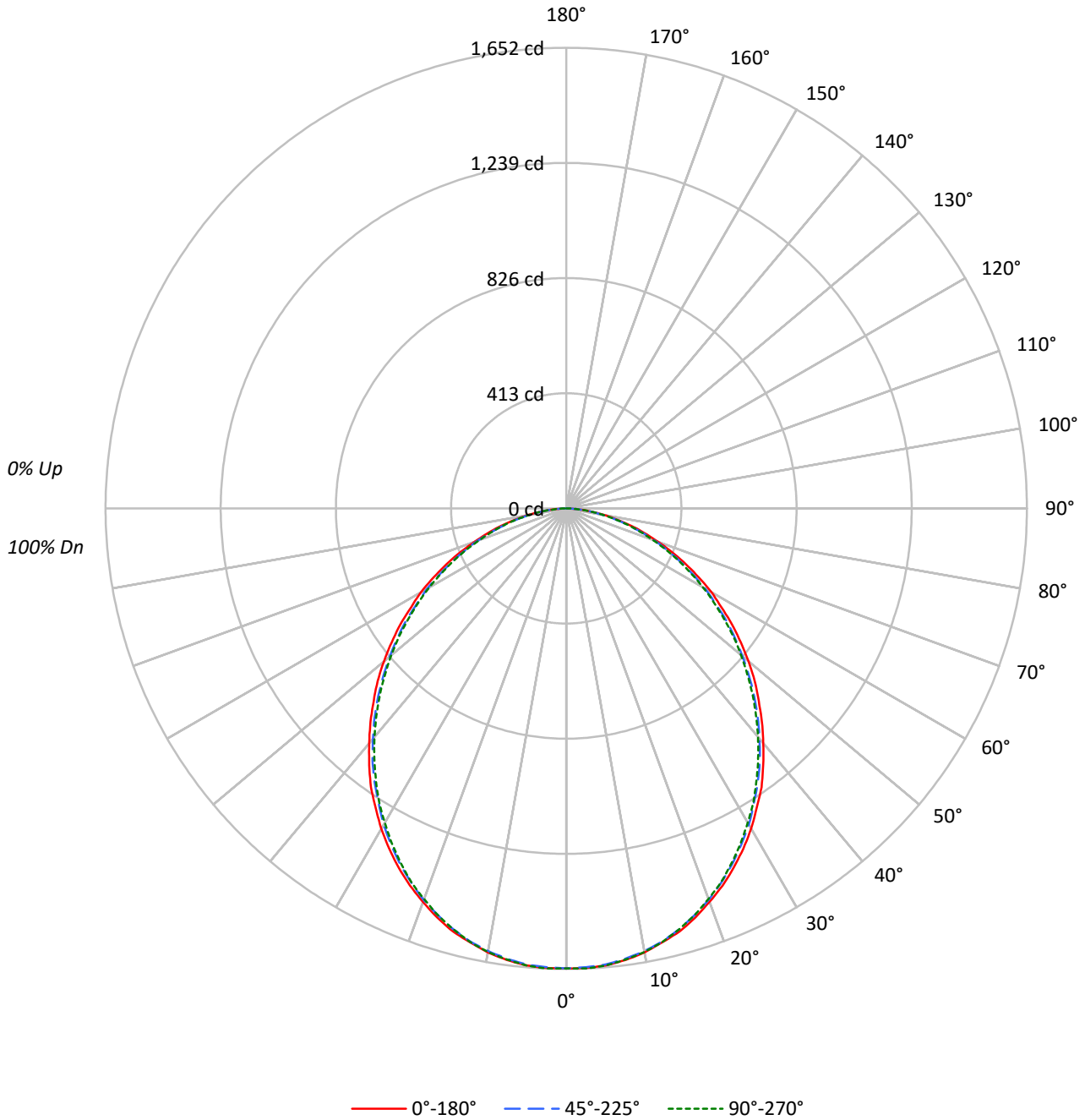
Lumens per Lamp: N/A
Luminaire Lumens: 4123.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 41.9
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°	4440	4440	4440
5°	4444	4435	4444
10°	4419	4405	4414
15°	4377	4354	4354
20°	4301	4278	4268
25°	4221	4181	4167
30°	4121	4070	4044
35°	4011	3936	3909
40°	3862	3787	3758
45°	3715	3627	3596
50°	3571	3454	3426
55°	3408	3285	3238
60°	3237	3096	3052
65°	3014	2867	2835
70°	2754	2651	2586
75°	2512	2358	2375
80°	2165	2038	2063
85°	1673	1624	1522

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3715 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.8
10°-20°	440.7	10.7
20°-30°	649.0	15.7
30°-40°	750.8	18.2
40°-50°	738.1	17.9
50°-60°	629.1	15.3
60°-70°	450.7	10.9
70°-80°	244.8	5.9
80°-90°	63.9	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°	1245.6	30.2
0°-40°	1996.4	48.4
0°-60°	3363.6	81.6
0°-90°	4123.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4123.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1650	1650	1650	1650	1650	
5°	1645	1642	1642	1642	1645	156
15°	1571	1564	1563	1561	1563	442
25°	1422	1415	1408	1405	1403	654
35°	1221	1211	1198	1191	1190	761
45°	976	970	953	945	945	754
55°	726	713	700	692	690	649
65°	473	463	450	445	445	469
75°	242	233	227	224	228	255
85°	54	54	53	51	49	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1649.9	1649.9	1649.9	1649.9	1649.9
2.5°	1649.9	1648.3	1646.6	1648.3	1651.6
5°	1645.0	1641.7	1641.7	1641.7	1645.0
7.5°	1633.5	1630.2	1628.6	1630.2	1631.8
10°	1617.1	1613.8	1612.1	1613.8	1615.4
12.5°	1594.0	1592.4	1590.8	1590.8	1592.4
15°	1571.0	1564.5	1562.8	1561.2	1562.8
17.5°	1538.2	1536.5	1530.0	1530.0	1530.0
20°	1502.0	1498.7	1493.8	1490.5	1490.5
22.5°	1464.2	1460.9	1452.7	1449.4	1451.1
25°	1421.5	1414.9	1408.3	1405.1	1403.4
27.5°	1375.5	1368.9	1359.0	1354.1	1354.1
30°	1326.2	1321.3	1309.7	1303.2	1301.5
32.5°	1272.0	1268.7	1252.2	1248.9	1248.9
35°	1221.0	1211.1	1198.0	1191.4	1189.8
37.5°	1160.2	1153.6	1140.5	1132.3	1130.6
40°	1099.4	1091.2	1078.0	1071.5	1069.8
42.5°	1038.6	1030.4	1017.2	1009.0	1007.4
45°	976.1	969.6	953.1	944.9	944.9
47.5°	917.0	903.8	889.1	882.5	880.8
50°	852.9	841.4	825.0	818.4	818.4
52.5°	788.8	780.6	762.5	759.2	755.9
55°	726.4	713.2	700.1	691.8	690.2
57.5°	659.0	647.5	634.3	627.8	627.8
60°	601.5	586.7	575.2	567.0	567.0
62.5°	535.7	522.6	511.1	506.2	504.5
65°	473.3	463.4	450.3	445.3	445.3
67.5°	410.8	402.6	391.1	386.2	387.8
70°	350.0	345.1	336.9	330.3	328.7
72.5°	294.2	287.6	279.4	277.7	277.7
75°	241.6	233.4	226.8	223.5	228.4
77.5°	187.3	182.4	179.1	177.5	179.1
80°	139.7	133.1	131.5	133.1	133.1
82.5°	97.0	93.7	92.0	92.0	92.0
85°	54.2	54.2	52.6	50.9	49.3
87.5°	21.4	21.4	23.0	23.0	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)