

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: P995535

Luminaire Tested: 22D3X-LP-WD-50-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995535
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-50-L840.ies
Description: 2x2 D3X-LP AT 5000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

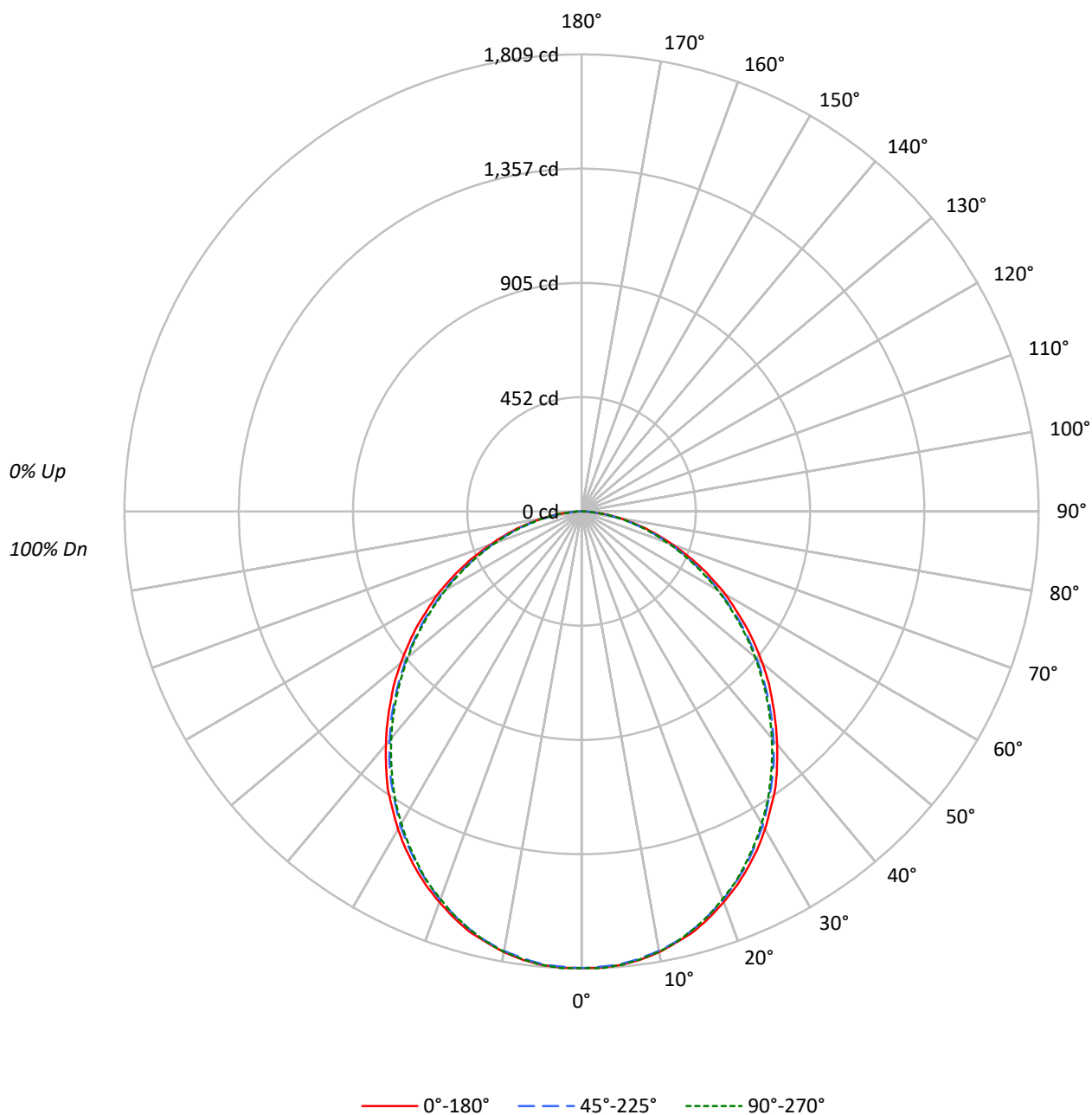
Lumens per Lamp: N/A
Luminaire Lumens: 4516.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

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					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	70	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°	4863	4863	4863
5°	4867	4858	4867
10°	4840	4825	4835
15°	4794	4769	4769
20°	4712	4686	4676
25°	4623	4581	4564
30°	4514	4458	4430
35°	4394	4311	4281
40°	4230	4148	4116
45°	4069	3973	3939
50°	3911	3783	3753
55°	3733	3598	3547
60°	3546	3391	3342
65°	3301	3140	3106
70°	3017	2903	2832
75°	2751	2583	2601
80°	2371	2232	2259
85°	1834	1778	1667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 4069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	3.8
10°-20°	482.7	10.7
20°-30°	711.0	15.7
30°-40°	822.4	18.2
40°-50°	808.5	17.9
50°-60°	689.0	15.3
60°-70°	493.7	10.9
70°-80°	268.1	5.9
80°-90°	69.9	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°	1364.4	30.2
0°-40°	2186.8	48.4
0°-60°	3684.4	81.6
0°-90°	4516.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4516.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1807	1807	1807	1807	1807	
5°	1802	1798	1798	1798	1802	171
15°	1721	1714	1712	1710	1712	484
25°	1557	1550	1543	1539	1537	717
35°	1338	1327	1312	1305	1303	834
45°	1069	1062	1044	1035	1035	826
55°	796	781	767	758	756	710
65°	518	508	493	488	488	514
75°	265	256	248	245	250	280
85°	59	59	58	56	54	72
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1807.3	1807.3	1807.3	1807.3	1807.3
2.5°	1807.3	1805.5	1803.7	1805.5	1809.1
5°	1801.9	1798.3	1798.3	1798.3	1801.9
7.5°	1789.3	1785.7	1783.9	1785.7	1787.5
10°	1771.3	1767.7	1765.9	1767.7	1769.5
12.5°	1746.1	1744.3	1742.5	1742.5	1744.3
15°	1720.9	1713.7	1711.9	1710.1	1711.9
17.5°	1684.9	1683.1	1675.9	1675.9	1675.9
20°	1645.3	1641.7	1636.3	1632.7	1632.7
22.5°	1603.9	1600.3	1591.3	1587.7	1589.5
25°	1557.1	1549.9	1542.7	1539.1	1537.3
27.5°	1506.7	1499.5	1488.7	1483.3	1483.3
30°	1452.7	1447.3	1434.7	1427.5	1425.7
32.5°	1393.3	1389.7	1371.7	1368.1	1368.1
35°	1337.5	1326.7	1312.3	1305.1	1303.3
37.5°	1270.8	1263.6	1249.2	1240.2	1238.4
40°	1204.2	1195.2	1180.8	1173.6	1171.8
42.5°	1137.6	1128.6	1114.2	1105.2	1103.4
45°	1069.2	1062.0	1044.0	1035.0	1035.0
47.5°	1004.4	990.0	973.8	966.6	964.8
50°	934.2	921.6	903.6	896.4	896.4
52.5°	864.0	855.0	835.2	831.6	828.0
55°	795.6	781.2	766.8	757.8	756.0
57.5°	721.8	709.2	694.8	687.6	687.6
60°	658.8	642.6	630.0	621.0	621.0
62.5°	586.8	572.4	559.8	554.4	552.6
65°	518.4	507.6	493.2	487.8	487.8
67.5°	450.0	441.0	428.4	423.0	424.8
70°	383.4	378.0	369.0	361.8	360.0
72.5°	322.2	315.0	306.0	304.2	304.2
75°	264.6	255.6	248.4	244.8	250.2
77.5°	205.2	199.8	196.2	194.4	196.2
80°	153.0	145.8	144.0	145.8	145.8
82.5°	106.2	102.6	100.8	100.8	100.8
85°	59.4	59.4	57.6	55.8	54.0
87.5°	23.4	23.4	25.2	25.2	27.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)