

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: P995517

Luminaire Tested: 22D3X-LP-WD-40-L840.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995517
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-40-L840.ies
Description: 2x2 D3X-LP AT 4000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

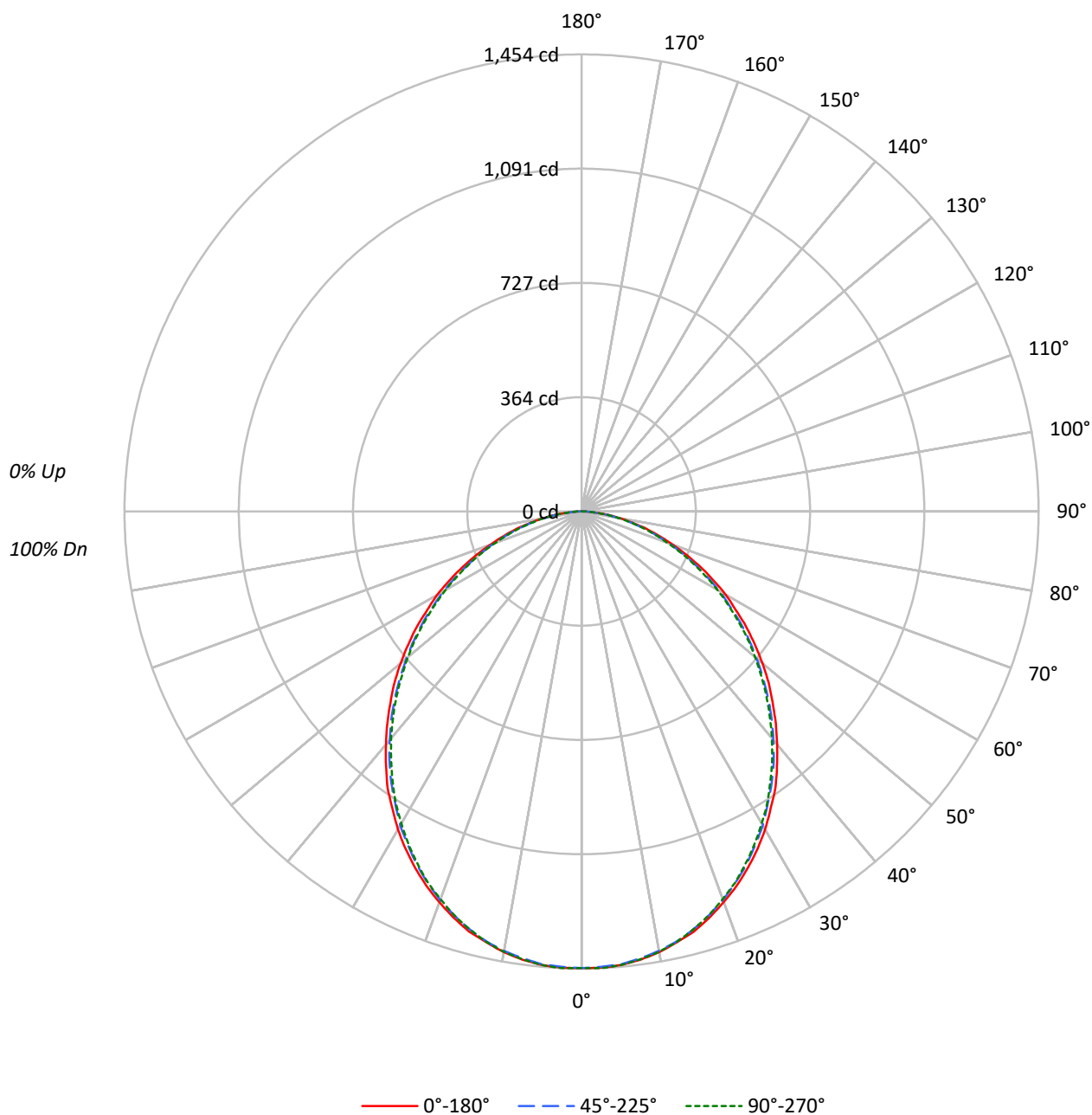
Lumens per Lamp: N/A
Luminaire Lumens: 3630.6 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 32.6
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					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		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3910	3910	3910
5°	3913	3905	3913
10°	3891	3879	3887
15°	3854	3834	3834
20°	3788	3767	3759
25°	3717	3682	3669
30°	3629	3584	3561
35°	3532	3465	3442
40°	3401	3335	3309
45°	3271	3194	3167
50°	3144	3041	3017
55°	3001	2892	2852
60°	2850	2726	2687
65°	2654	2525	2497
70°	2425	2334	2277
75°	2211	2076	2091
80°	1906	1795	1816
85°	1476	1430	1340

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3271 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.8
10°-20°	388.0	10.7
20°-30°	571.5	15.7
30°-40°	661.1	18.2
40°-50°	650.0	17.9
50°-60°	553.9	15.3
60°-70°	396.9	10.9
70°-80°	215.6	5.9
80°-90°	56.2	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°	1096.8	30.2
0°-40°	1758.0	48.4
0°-60°	2961.9	81.6
0°-90°	3630.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3630.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1453	1453	1453	1453	1453	
5°	1448	1446	1446	1446	1448	137
15°	1383	1378	1376	1375	1376	389
25°	1252	1246	1240	1237	1236	576
35°	1075	1066	1055	1049	1048	670
45°	860	854	839	832	832	664
55°	640	628	616	609	608	571
65°	417	408	396	392	392	413
75°	213	206	200	197	201	225
85°	48	48	46	45	43	58
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1452.9	1452.9	1452.9	1452.9	1452.9
2.5°	1452.9	1451.4	1450.0	1451.4	1454.3
5°	1448.5	1445.6	1445.6	1445.6	1448.5
7.5°	1438.4	1435.5	1434.1	1435.5	1437.0
10°	1423.9	1421.0	1419.6	1421.0	1422.5
12.5°	1403.7	1402.2	1400.8	1400.8	1402.2
15°	1383.4	1377.6	1376.2	1374.7	1376.2
17.5°	1354.5	1353.0	1347.2	1347.2	1347.2
20°	1322.6	1319.7	1315.4	1312.5	1312.5
22.5°	1289.4	1286.5	1279.2	1276.3	1277.8
25°	1251.7	1245.9	1240.2	1237.3	1235.8
27.5°	1211.2	1205.4	1196.7	1192.4	1192.4
30°	1167.8	1163.5	1153.3	1147.5	1146.1
32.5°	1120.0	1117.2	1102.7	1099.8	1099.8
35°	1075.2	1066.5	1054.9	1049.1	1047.7
37.5°	1021.6	1015.9	1004.3	997.0	995.6
40°	968.1	960.9	949.3	943.5	942.1
42.5°	914.6	907.3	895.7	888.5	887.1
45°	859.6	853.8	839.3	832.1	832.1
47.5°	807.5	795.9	782.9	777.1	775.6
50°	751.0	740.9	726.4	720.6	720.6
52.5°	694.6	687.4	671.4	668.6	665.7
55°	639.6	628.0	616.5	609.2	607.8
57.5°	580.3	570.2	558.6	552.8	552.8
60°	529.6	516.6	506.5	499.2	499.2
62.5°	471.8	460.2	450.0	445.7	444.3
65°	416.8	408.1	396.5	392.2	392.2
67.5°	361.8	354.5	344.4	340.1	341.5
70°	308.2	303.9	296.7	290.9	289.4
72.5°	259.0	253.2	246.0	244.6	244.6
75°	212.7	205.5	199.7	196.8	201.1
77.5°	165.0	160.6	157.7	156.3	157.7
80°	123.0	117.2	115.8	117.2	117.2
82.5°	85.4	82.5	81.0	81.0	81.0
85°	47.8	47.8	46.3	44.9	43.4
87.5°	18.8	18.8	20.3	20.3	21.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)