

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: P995601

Luminaire Tested: 24D3X-LP-WD-40-L930.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995601
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-40-L930.ies
Description: 2x4 D3X-LP AT 4000LM 3000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

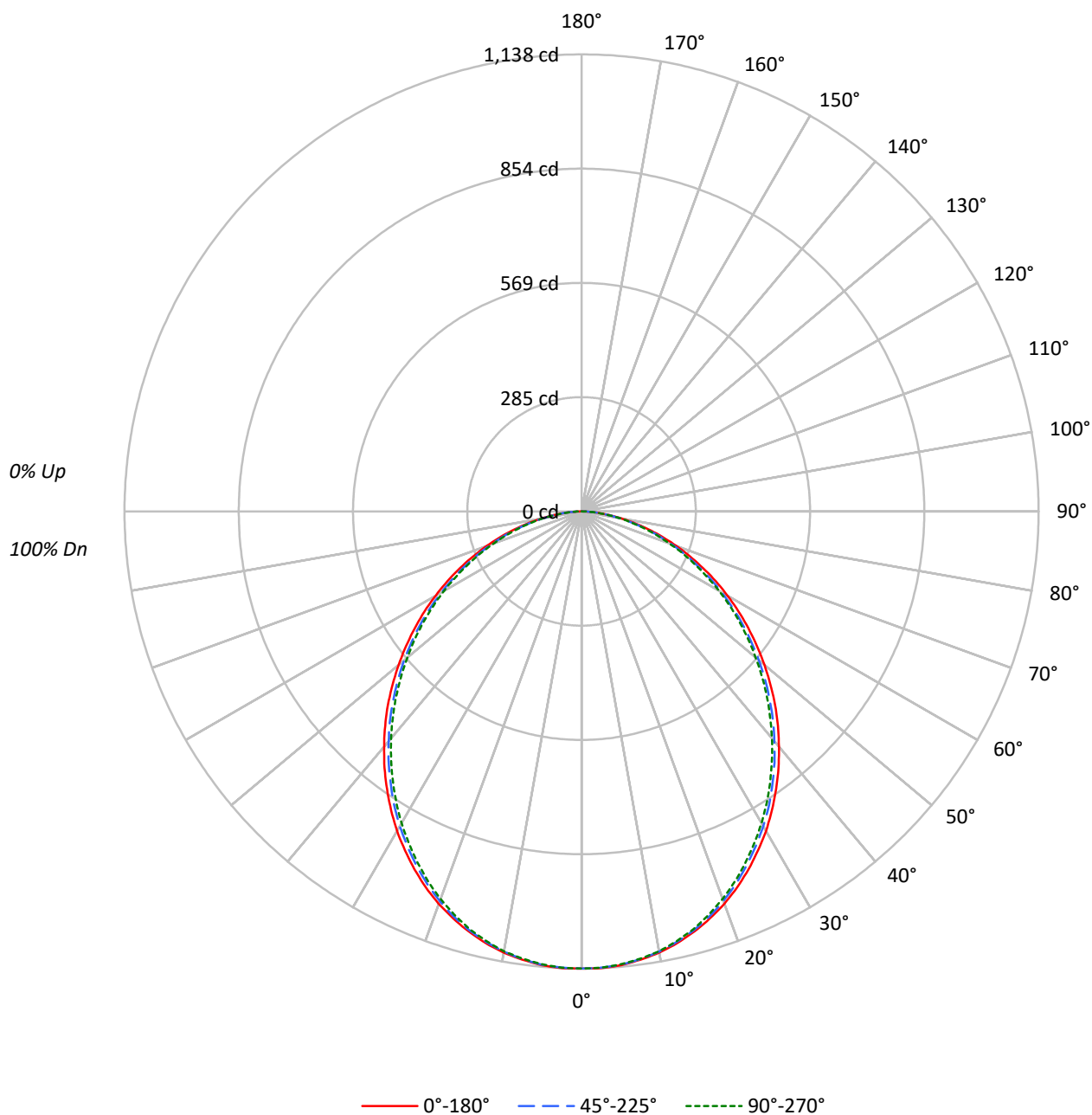
Lumens per Lamp: N/A
Luminaire Lumens: 2870.1 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 29.4
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	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°	1532	1532	1532
5°	1532	1530	1529
10°	1524	1521	1519
15°	1509	1504	1500
20°	1489	1479	1470
25°	1460	1444	1433
30°	1428	1406	1393
35°	1387	1361	1346
40°	1343	1312	1296
45°	1297	1260	1242
50°	1244	1206	1185
55°	1190	1148	1126
60°	1128	1083	1063
65°	1062	1012	992
70°	988	935	912
75°	897	846	832
80°	776	735	739
85°	641	633	591

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1297 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.5	3.7
10°-20°	304.3	10.6
20°-30°	448.4	15.6
30°-40°	519.1	18.1
40°-50°	512.5	17.9
50°-60°	439.0	15.3
60°-70°	317.4	11.1
70°-80°	174.9	6.1
80°-90°	47.1	1.6
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°	860.2	30.0
0°-40°	1379.3	48.1
0°-60°	2330.7	81.2
0°-90°	2870.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2870.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1138	1138	1138	1138	1138	
5°	1134	1133	1133	1132	1132	108
15°	1083	1082	1080	1078	1077	305
25°	984	981	973	968	965	453
35°	844	839	828	821	819	528
45°	682	673	662	656	653	525
55°	507	498	489	482	480	453
65°	334	326	318	313	312	331
75°	172	167	163	162	160	183
85°	42	42	41	38	38	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.3	1138.3	1138.3	1138.3	1138.3
2.5°	1138.3	1138.3	1137.2	1137.2	1137.2
5°	1134.0	1133.4	1132.9	1131.8	1131.8
7.5°	1125.9	1125.9	1124.3	1124.3	1123.2
10°	1115.6	1114.6	1113.0	1113.0	1111.9
12.5°	1101.1	1100.0	1097.9	1097.3	1095.7
15°	1083.3	1082.2	1079.5	1077.9	1076.8
17.5°	1062.8	1061.2	1058.0	1055.3	1053.1
20°	1039.7	1037.5	1032.6	1029.4	1026.7
22.5°	1013.2	1011.1	1004.1	1000.3	997.6
25°	983.6	980.9	972.8	968.0	965.3
27.5°	951.8	948.6	939.4	934.0	931.3
30°	918.9	914.1	904.9	898.4	896.3
32.5°	882.3	877.4	868.3	860.7	858.6
35°	844.5	839.2	828.4	821.4	819.2
37.5°	805.7	798.7	789.0	782.0	778.8
40°	764.8	757.8	747.0	739.5	737.8
42.5°	723.8	715.2	706.0	698.5	695.3
45°	681.8	672.6	662.4	655.9	652.7
47.5°	637.6	629.0	619.8	612.3	609.6
50°	594.5	585.3	576.1	569.1	565.9
52.5°	550.3	541.1	532.5	526.6	523.3
55°	507.2	497.5	489.4	482.4	480.2
57.5°	463.5	454.9	445.7	439.3	437.6
60°	419.3	411.8	402.6	396.7	395.1
62.5°	376.7	369.2	360.6	354.6	351.9
65°	333.6	326.1	318.0	313.1	311.5
67.5°	291.6	284.6	277.6	272.7	271.6
70°	251.2	244.1	237.7	233.4	231.8
72.5°	210.7	205.9	199.4	196.7	195.1
75°	172.5	167.1	162.8	162.2	160.1
77.5°	135.3	134.7	127.7	126.7	126.7
80°	100.2	98.6	94.9	93.8	95.4
82.5°	69.0	67.9	65.8	65.2	64.7
85°	41.5	41.5	41.0	38.3	38.3
87.5°	18.9	18.3	17.8	18.3	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)