

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: P995603

Luminaire Tested: 24D3X-LP-WD-40-L940.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995603
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-L940.ies
Description: 2x4 D3X-LP AT 4000LM 4000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

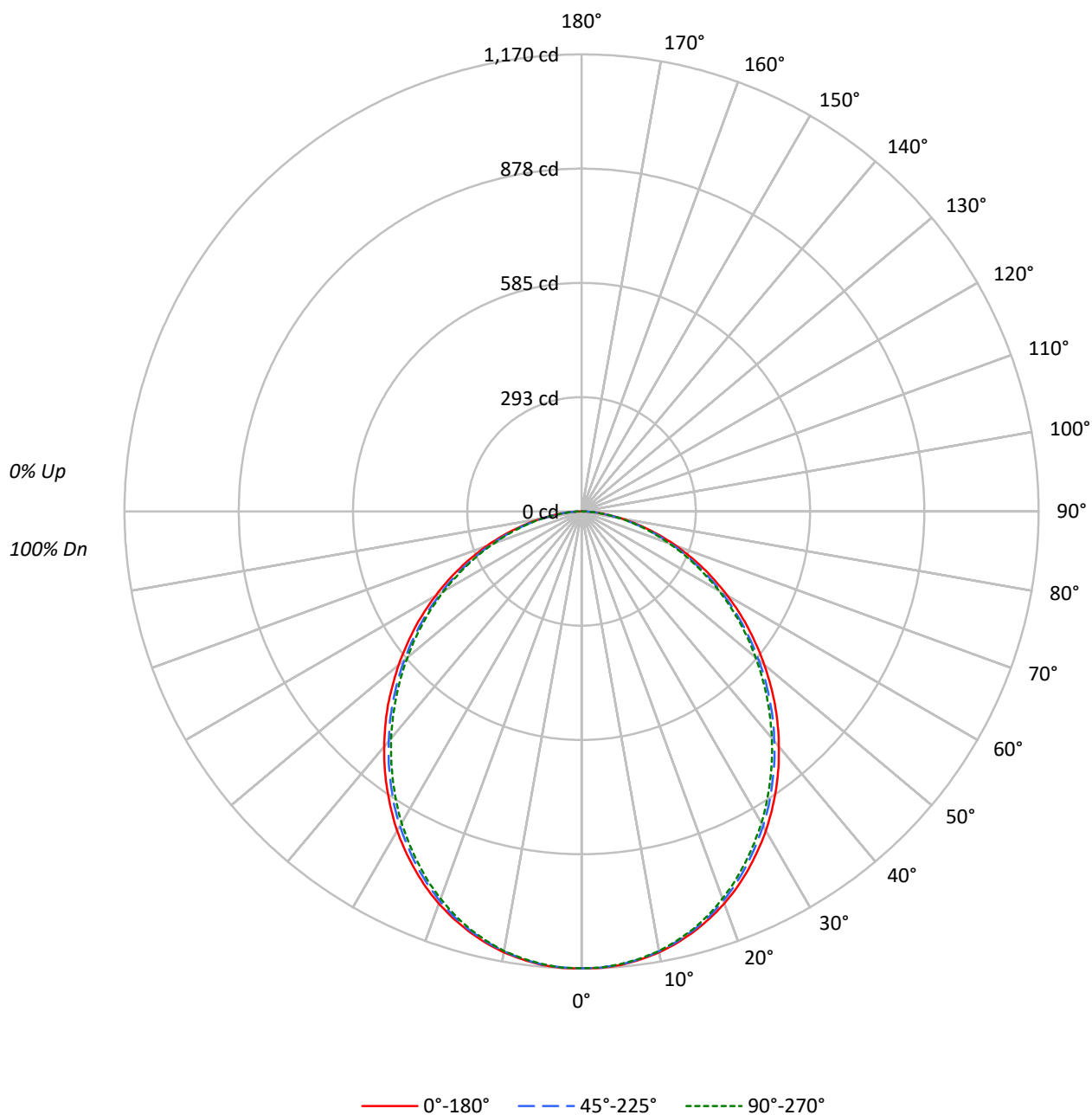
Lumens per Lamp: N/A
Luminaire Lumens: 2949.3 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	33	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1574	1574	1574
5°	1574	1572	1571
10°	1566	1563	1561
15°	1551	1545	1541
20°	1530	1519	1511
25°	1500	1484	1473
30°	1467	1445	1431
35°	1426	1398	1383
40°	1380	1348	1332
45°	1333	1295	1276
50°	1279	1239	1217
55°	1223	1180	1158
60°	1160	1113	1093
65°	1091	1040	1019
70°	1015	961	937
75°	921	870	855
80°	798	755	759
85°	658	650	607

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1333 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.5	3.7
10°-20°	312.7	10.6
20°-30°	460.8	15.6
30°-40°	533.4	18.1
40°-50°	526.6	17.9
50°-60°	451.1	15.3
60°-70°	326.1	11.1
70°-80°	179.8	6.1
80°-90°	48.4	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°	883.9	30.0
0°-40°	1417.3	48.1
0°-60°	2395.0	81.2
0°-90°	2949.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2949.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1165	1165	1164	1163	1163	111
15°	1113	1112	1109	1108	1107	314
25°	1011	1008	1000	995	992	465
35°	868	862	851	844	842	543
45°	701	691	681	674	671	540
55°	521	511	503	496	494	466
65°	343	335	327	322	320	340
75°	177	172	167	167	164	188
85°	43	43	42	39	39	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1169.7	1169.7	1169.7	1169.7	1169.7
2.5°	1169.7	1169.7	1168.6	1168.6	1168.6
5°	1165.3	1164.7	1164.2	1163.0	1163.0
7.5°	1157.0	1157.0	1155.3	1155.3	1154.2
10°	1146.4	1145.3	1143.7	1143.7	1142.6
12.5°	1131.5	1130.4	1128.2	1127.6	1125.9
15°	1113.2	1112.1	1109.3	1107.7	1106.6
17.5°	1092.2	1090.5	1087.2	1084.4	1082.2
20°	1068.3	1066.1	1061.1	1057.8	1055.1
22.5°	1041.2	1039.0	1031.8	1027.9	1025.1
25°	1010.7	1008.0	999.7	994.7	991.9
27.5°	978.1	974.7	965.3	959.8	957.0
30°	944.3	939.3	929.9	923.2	921.0
32.5°	906.6	901.6	892.2	884.5	882.3
35°	867.9	862.3	851.2	844.0	841.8
37.5°	828.0	820.8	810.8	803.6	800.3
40°	785.9	778.7	767.6	759.9	758.2
42.5°	743.8	734.9	725.5	717.8	714.4
45°	700.6	691.2	680.7	674.0	670.7
47.5°	655.2	646.3	636.9	629.2	626.4
50°	610.9	601.5	592.0	584.8	581.5
52.5°	565.5	556.0	547.2	541.1	537.8
55°	521.2	511.2	502.9	495.7	493.5
57.5°	476.3	467.4	458.0	451.4	449.7
60°	430.9	423.1	413.7	407.6	406.0
62.5°	387.1	379.4	370.5	364.4	361.7
65°	342.8	335.1	326.8	321.8	320.1
67.5°	299.6	292.4	285.2	280.2	279.1
70°	258.1	250.9	244.2	239.8	238.1
72.5°	216.5	211.6	204.9	202.1	200.5
75°	177.2	171.7	167.3	166.7	164.5
77.5°	139.0	138.5	131.3	130.2	130.2
80°	103.0	101.4	97.5	96.4	98.0
82.5°	70.9	69.8	67.6	67.0	66.5
85°	42.6	42.6	42.1	39.3	39.3
87.5°	19.4	18.8	18.3	18.8	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)