

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: P995602

Luminaire Tested: 24D3X-LP-WD-40-L935.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995602
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-L935.ies
Description: 2x4 D3X-LP AT 4000LM 3500K 90CRI
Light Source: -
Ballast/Driver: -

Summary

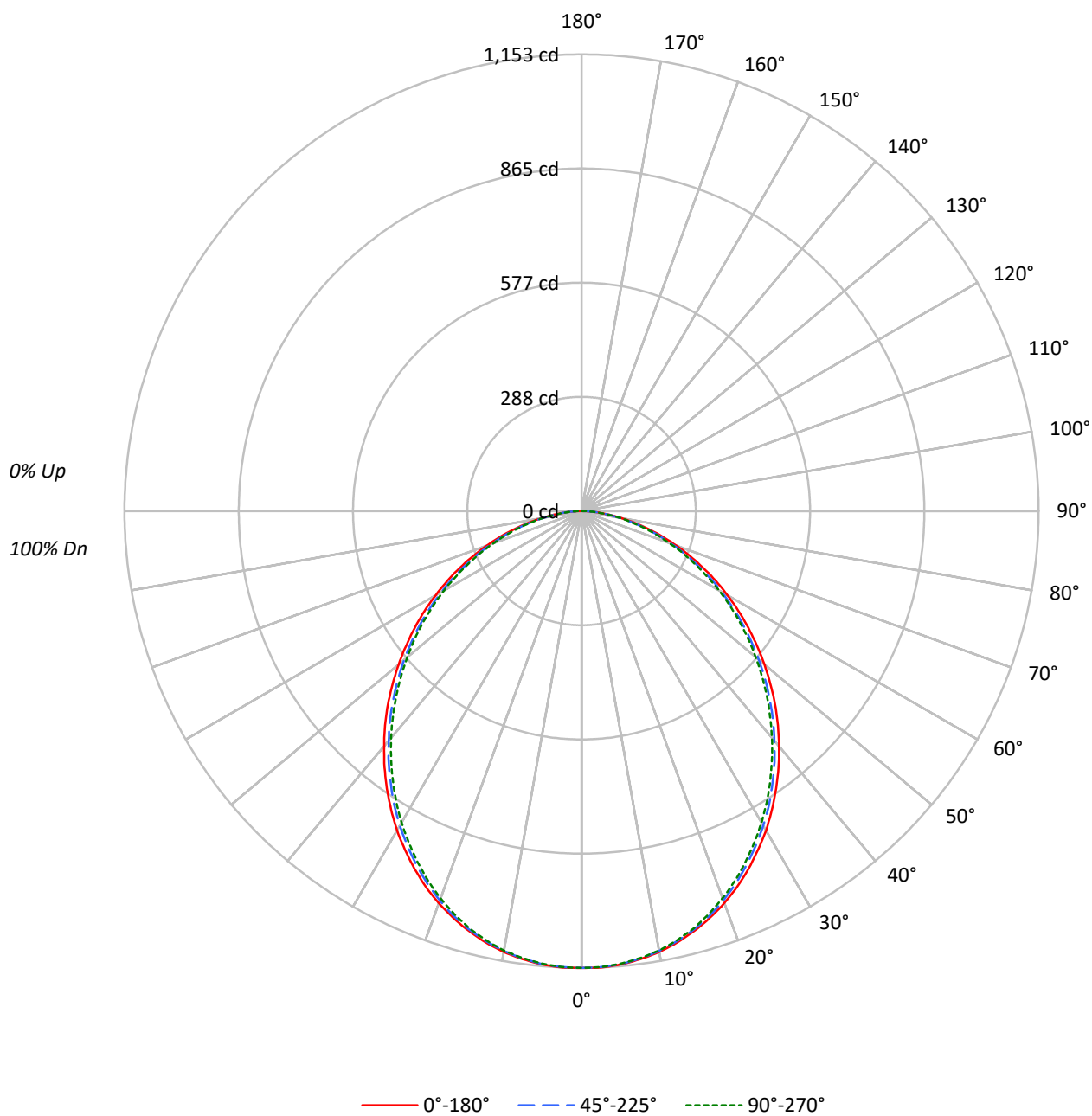
Lumens per Lamp: N/A
Luminaire Lumens: 2907.9 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	31	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°	1552	1552	1552
5°	1552	1550	1549
10°	1544	1541	1539
15°	1529	1524	1520
20°	1508	1498	1489
25°	1480	1463	1452
30°	1446	1424	1411
35°	1406	1379	1363
40°	1361	1329	1313
45°	1314	1277	1258
50°	1261	1222	1200
55°	1205	1163	1141
60°	1143	1098	1077
65°	1076	1026	1005
70°	1001	947	924
75°	908	857	843
80°	787	745	749
85°	648	641	599

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1314 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	3.7
10°-20°	308.3	10.6
20°-30°	454.3	15.6
30°-40°	525.9	18.1
40°-50°	519.2	17.9
50°-60°	444.7	15.3
60°-70°	321.5	11.1
70°-80°	177.2	6.1
80°-90°	47.7	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°	871.5	30.0
0°-40°	1397.4	48.1
0°-60°	2361.4	81.2
0°-90°	2907.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2907.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1153	1153	1153	1153	1153	
5°	1149	1148	1148	1147	1147	109
15°	1098	1096	1094	1092	1091	309
25°	997	994	986	981	978	459
35°	856	850	839	832	830	535
45°	691	682	671	665	661	532
55°	514	504	496	489	486	459
65°	338	330	322	317	316	335
75°	175	169	165	164	162	185
85°	42	42	42	39	39	49
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1153.3	1153.3	1153.3	1153.3	1153.3
2.5°	1153.3	1153.3	1152.2	1152.2	1152.2
5°	1148.9	1148.4	1147.8	1146.7	1146.7
7.5°	1140.7	1140.7	1139.1	1139.1	1138.0
10°	1130.3	1129.2	1127.6	1127.6	1126.5
12.5°	1115.6	1114.5	1112.3	1111.8	1110.1
15°	1097.6	1096.5	1093.8	1092.1	1091.0
17.5°	1076.8	1075.2	1071.9	1069.2	1067.0
20°	1053.3	1051.2	1046.2	1043.0	1040.2
22.5°	1026.6	1024.4	1017.3	1013.5	1010.8
25°	996.6	993.8	985.6	980.7	978.0
27.5°	964.3	961.1	951.8	946.3	943.6
30°	931.0	926.1	916.8	910.3	908.1
32.5°	893.9	889.0	879.7	872.1	869.9
35°	855.7	850.2	839.3	832.2	830.0
37.5°	816.4	809.3	799.4	792.3	789.1
40°	774.9	767.8	756.8	749.2	747.6
42.5°	733.4	724.6	715.3	707.7	704.4
45°	690.8	681.5	671.1	664.6	661.3
47.5°	646.0	637.2	628.0	620.3	617.6
50°	602.3	593.0	583.7	576.6	573.4
52.5°	557.5	548.2	539.5	533.5	530.2
55°	513.8	504.0	495.8	488.7	486.5
57.5°	469.6	460.9	451.6	445.0	443.4
60°	424.8	417.2	407.9	401.9	400.3
62.5°	381.7	374.0	365.3	359.3	356.6
65°	338.0	330.4	322.2	317.3	315.6
67.5°	295.4	288.3	281.2	276.3	275.2
70°	254.5	247.4	240.8	236.4	234.8
72.5°	213.5	208.6	202.0	199.3	197.7
75°	174.7	169.3	164.9	164.4	162.2
77.5°	137.1	136.5	129.4	128.3	128.3
80°	101.6	99.9	96.1	95.0	96.7
82.5°	69.9	68.8	66.6	66.1	65.5
85°	42.0	42.0	41.5	38.8	38.8
87.5°	19.1	18.6	18.0	18.6	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)