

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: P995664

Luminaire Tested: 24D3X-LP-WD-90-L930.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995664
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-90-L930.ies
Description: 2x4 D3X-LP AT 9000LM 3000K 90CRI
Light Source: -
Ballast/Driver: -

Summary

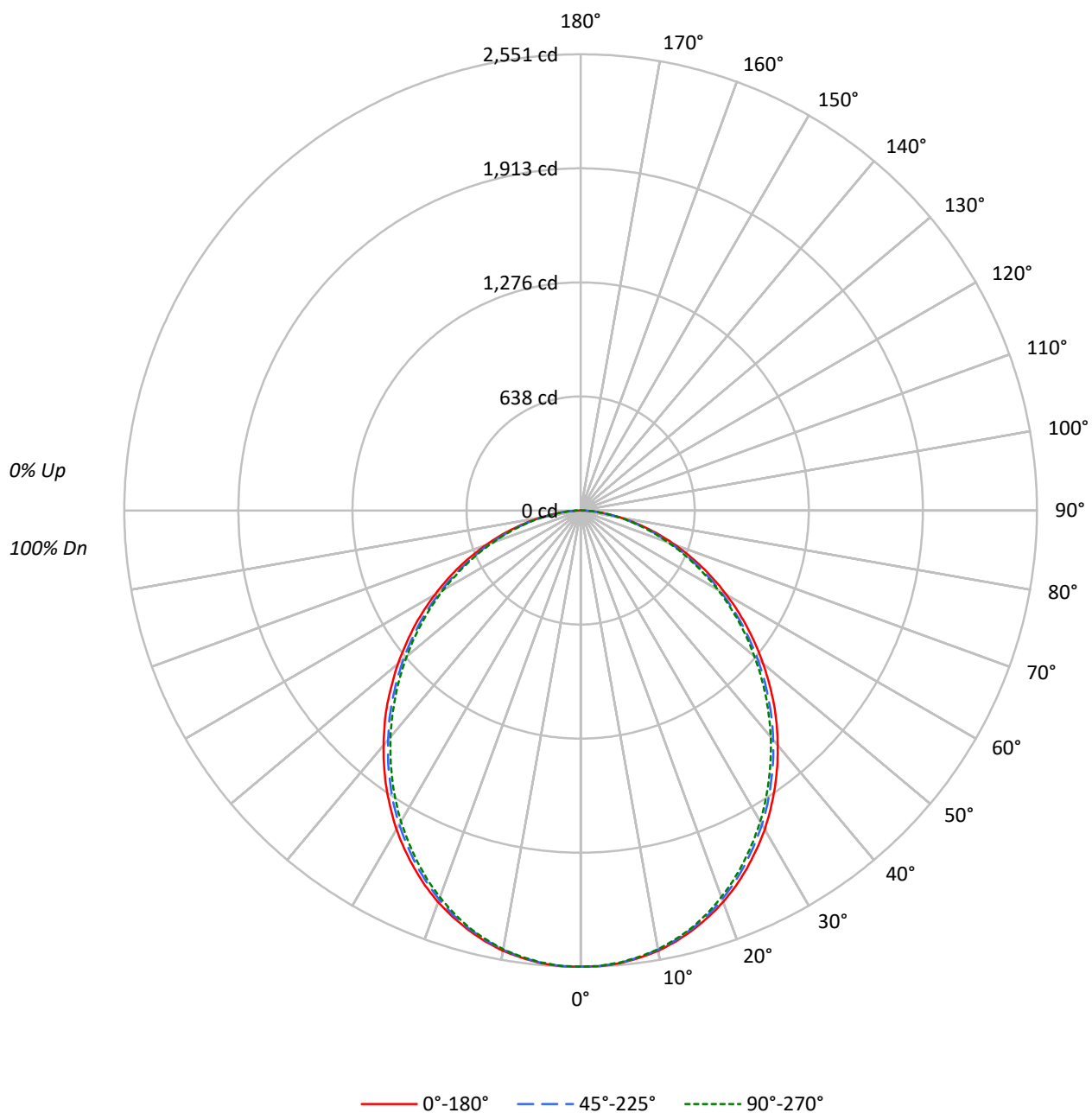
Lumens per Lamp: N/A
Luminaire Lumens: 6431.4 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 69.7
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°	3432	3432	3432
5°	3432	3429	3425
10°	3416	3407	3404
15°	3381	3370	3361
20°	3336	3313	3294
25°	3272	3236	3211
30°	3199	3150	3120
35°	3109	3049	3015
40°	3010	2940	2904
45°	2907	2824	2783
50°	2788	2702	2654
55°	2666	2572	2524
60°	2528	2428	2382
65°	2380	2269	2223
70°	2214	2095	2043
75°	2009	1896	1865
80°	1740	1647	1657
85°	1436	1417	1323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2907 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.9	3.7
10°-20°	681.8	10.6
20°-30°	1004.8	15.6
30°-40°	1163.2	18.1
40°-50°	1148.4	17.9
50°-60°	983.6	15.3
60°-70°	711.2	11.1
70°-80°	392.0	6.1
80°-90°	105.6	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°	1927.5	30.0
0°-40°	3090.7	48.1
0°-60°	5222.7	81.2
0°-90°	6431.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6431.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2551	2551	2551	2551	2551	
5°	2541	2540	2539	2536	2536	241
15°	2428	2425	2419	2415	2413	684
25°	2204	2198	2180	2169	2163	1015
35°	1892	1880	1856	1841	1836	1183
45°	1528	1507	1484	1470	1462	1177
55°	1136	1115	1097	1081	1076	1016
65°	748	731	713	702	698	741
75°	386	374	365	364	359	410
85°	93	93	92	86	86	109
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2550.7	2550.7	2550.7	2550.7	2550.7
2.5°	2550.7	2550.7	2548.3	2548.3	2548.3
5°	2541.0	2539.8	2538.6	2536.2	2536.2
7.5°	2522.9	2522.9	2519.3	2519.3	2516.9
10°	2500.0	2497.6	2493.9	2493.9	2491.5
12.5°	2467.4	2464.9	2460.1	2458.9	2455.3
15°	2427.5	2425.1	2419.1	2415.4	2413.0
17.5°	2381.6	2378.0	2370.7	2364.7	2359.9
20°	2329.7	2324.9	2314.0	2306.7	2300.7
22.5°	2270.5	2265.7	2250.0	2241.5	2235.5
25°	2204.1	2198.0	2179.9	2169.1	2163.0
27.5°	2132.8	2125.6	2105.0	2093.0	2086.9
30°	2059.2	2048.3	2027.8	2013.3	2008.4
32.5°	1977.0	1966.2	1945.6	1928.7	1923.9
35°	1892.5	1880.4	1856.3	1840.6	1835.7
37.5°	1805.5	1789.8	1768.1	1752.4	1745.1
40°	1713.7	1698.0	1673.9	1657.0	1653.4
42.5°	1622.0	1602.6	1582.1	1565.2	1558.0
45°	1527.8	1507.2	1484.3	1469.8	1462.5
47.5°	1428.7	1409.4	1388.9	1372.0	1365.9
50°	1332.1	1311.6	1291.0	1275.3	1268.1
52.5°	1233.1	1212.5	1193.2	1179.9	1172.7
55°	1136.5	1114.7	1096.6	1080.9	1076.1
57.5°	1038.6	1019.3	998.8	984.3	980.7
60°	939.6	922.7	902.2	888.9	885.3
62.5°	844.2	827.3	808.0	794.7	788.6
65°	747.6	730.7	712.6	701.7	698.1
67.5°	653.4	637.7	622.0	611.1	608.7
70°	562.8	547.1	532.6	522.9	519.3
72.5°	472.2	461.3	446.9	440.8	437.2
75°	386.5	374.4	364.7	363.5	358.7
77.5°	303.1	301.9	286.2	283.8	283.8
80°	224.6	221.0	212.6	210.1	213.8
82.5°	154.6	152.2	147.3	146.1	144.9
85°	93.0	93.0	91.8	85.7	85.7
87.5°	42.3	41.1	39.9	41.1	44.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)