

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: P995641

Luminaire Tested: 24D3X-LP-WD-70-L830.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995641
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-70-L830.ies
Description: 2x4 D3X-LP AT 7000LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

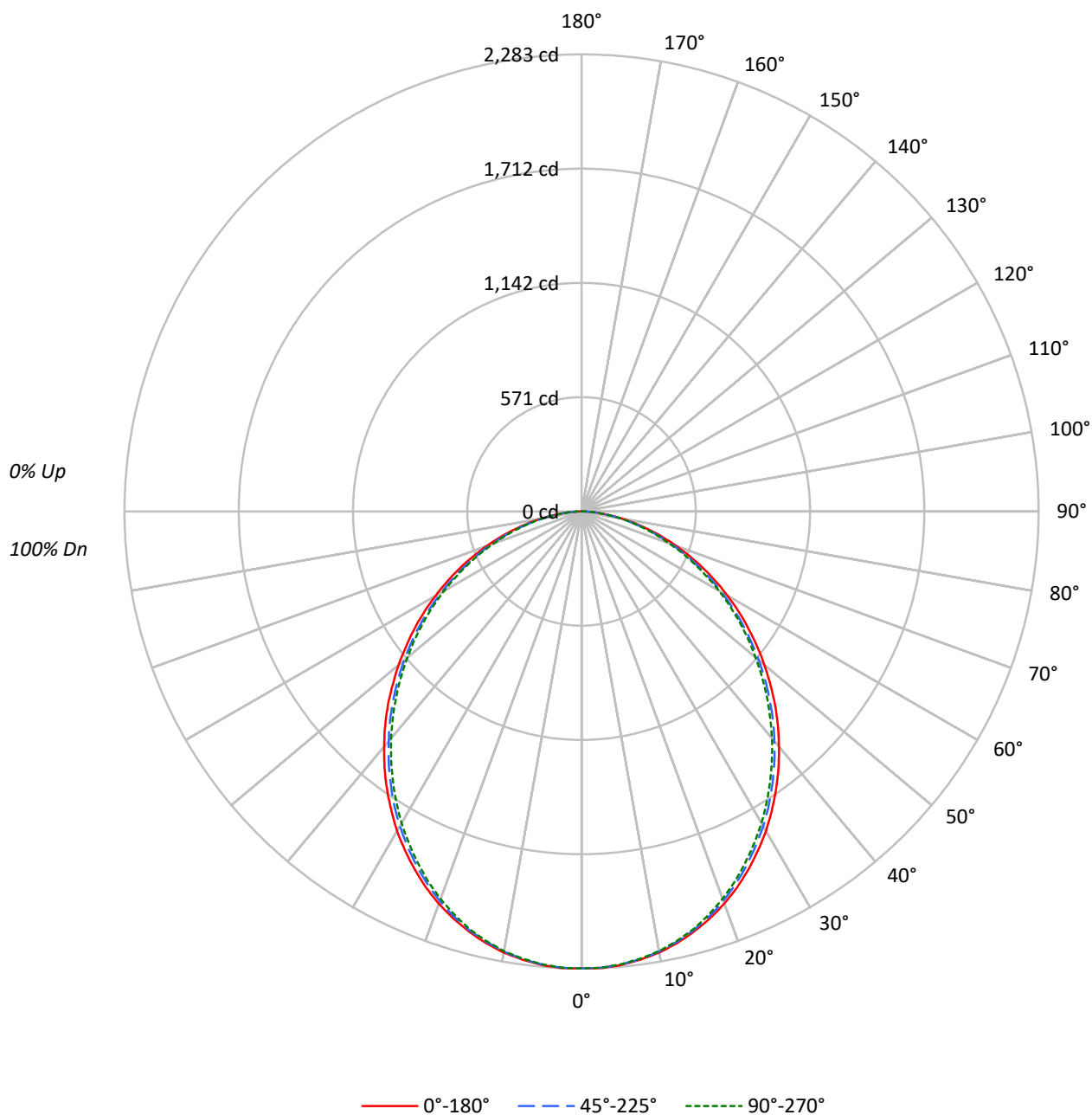
Lumens per Lamp: N/A
Luminaire Lumens: 5756.4 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 51.5
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°	3072	3072	3072
5°	3072	3069	3066
10°	3057	3050	3047
15°	3026	3016	3009
20°	2986	2965	2948
25°	2929	2897	2874
30°	2863	2820	2793
35°	2782	2729	2699
40°	2694	2631	2599
45°	2602	2528	2491
50°	2496	2419	2376
55°	2386	2302	2259
60°	2263	2173	2132
65°	2130	2031	1989
70°	1982	1875	1828
75°	1798	1697	1669
80°	1558	1474	1482
85°	1284	1269	1184

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2602 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	215.6	3.7
10°-20°	610.2	10.6
20°-30°	899.3	15.6
30°-40°	1041.1	18.1
40°-50°	1027.8	17.9
50°-60°	880.4	15.3
60°-70°	636.5	11.1
70°-80°	350.9	6.1
80°-90°	94.5	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°	1725.2	30.0
0°-40°	2766.3	48.1
0°-60°	4674.5	81.2
0°-90°	5756.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5756.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2283	2283	2283	2283	2283	
5°	2274	2273	2272	2270	2270	216
15°	2173	2171	2165	2162	2160	613
25°	1973	1967	1951	1941	1936	908
35°	1694	1683	1661	1647	1643	1059
45°	1367	1349	1328	1316	1309	1054
55°	1017	998	982	968	963	909
65°	669	654	638	628	625	663
75°	346	335	326	325	321	367
85°	83	83	82	77	77	98
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2283.0	2283.0	2283.0	2283.0	2283.0
2.5°	2283.0	2283.0	2280.8	2280.8	2280.8
5°	2274.3	2273.3	2272.2	2270.0	2270.0
7.5°	2258.1	2258.1	2254.9	2254.9	2252.7
10°	2237.6	2235.4	2232.2	2232.2	2230.0
12.5°	2208.4	2206.2	2201.9	2200.8	2197.6
15°	2172.7	2170.6	2165.2	2161.9	2159.8
17.5°	2131.7	2128.4	2121.9	2116.5	2112.2
20°	2085.2	2080.9	2071.1	2064.6	2059.2
22.5°	2032.2	2027.9	2013.8	2006.3	2000.9
25°	1972.8	1967.3	1951.1	1941.4	1936.0
27.5°	1909.0	1902.5	1884.1	1873.3	1867.9
30°	1843.0	1833.3	1814.9	1802.0	1797.6
32.5°	1769.5	1759.8	1741.4	1726.3	1722.0
35°	1693.9	1683.1	1661.4	1647.4	1643.1
37.5°	1616.0	1602.0	1582.5	1568.5	1562.0
40°	1533.9	1519.8	1498.2	1483.1	1479.8
42.5°	1451.7	1434.4	1416.1	1400.9	1394.4
45°	1367.4	1349.0	1328.5	1315.5	1309.0
47.5°	1278.8	1261.5	1243.1	1228.0	1222.6
50°	1192.3	1173.9	1155.5	1141.5	1135.0
52.5°	1103.7	1085.3	1068.0	1056.1	1049.6
55°	1017.2	997.7	981.5	967.5	963.1
57.5°	929.6	912.3	894.0	881.0	877.7
60°	841.0	825.9	807.5	795.6	792.3
62.5°	755.6	740.5	723.2	711.3	705.9
65°	669.1	654.0	637.8	628.0	624.8
67.5°	584.8	570.7	556.7	547.0	544.8
70°	503.7	489.7	476.7	468.1	464.8
72.5°	422.7	412.9	400.0	394.6	391.3
75°	345.9	335.1	326.5	325.4	321.0
77.5°	271.3	270.2	256.2	254.0	254.0
80°	201.1	197.8	190.2	188.1	191.3
82.5°	138.4	136.2	131.9	130.8	129.7
85°	83.2	83.2	82.2	76.7	76.7
87.5°	37.8	36.8	35.7	36.8	40.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)