

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: P995645

Luminaire Tested: 24D3X-LP-WD-70-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995645
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-L927.ies
Description: 2x4 D3X-LP AT 7000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

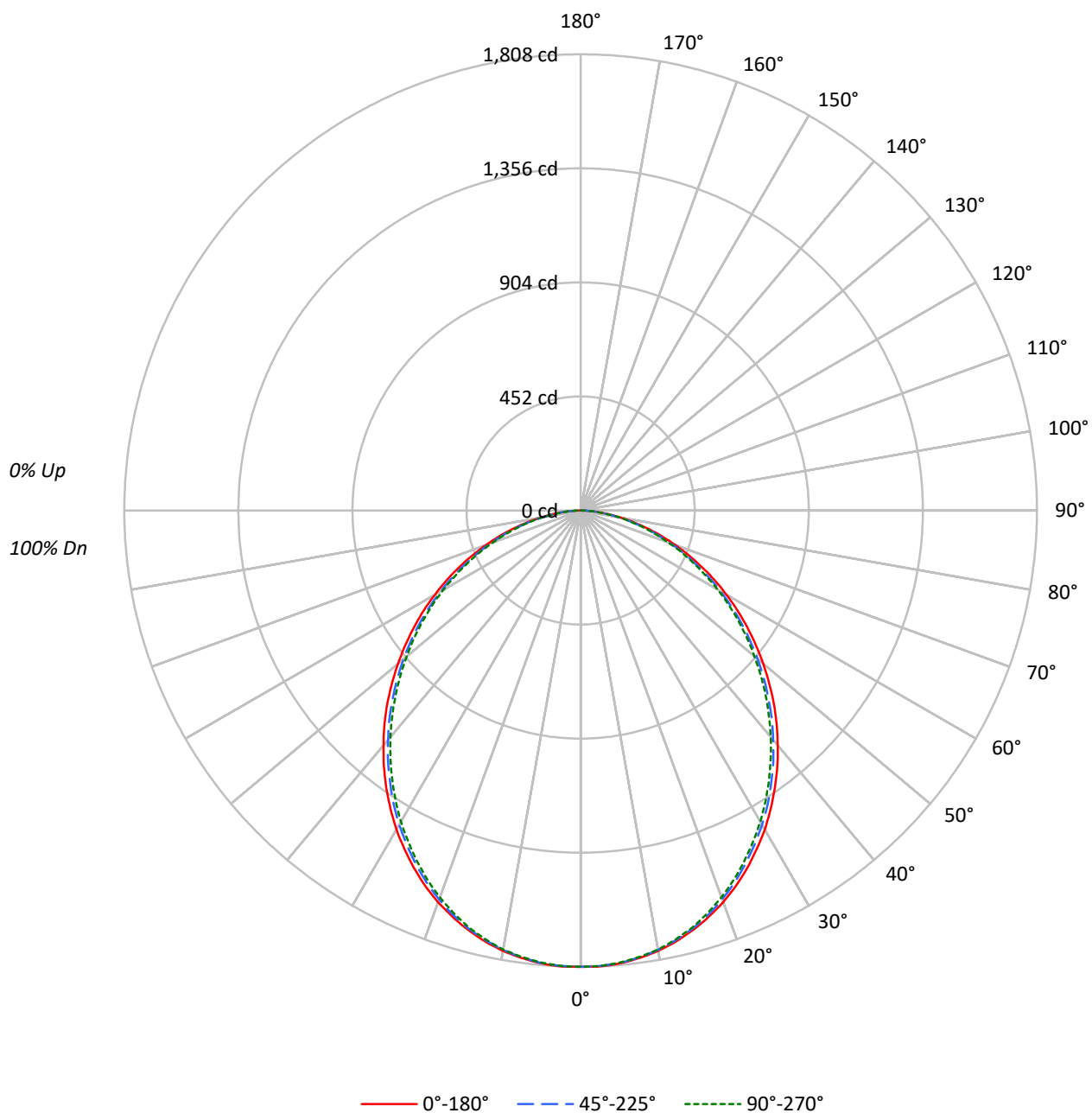
Lumens per Lamp: N/A
Luminaire Lumens: 4559.9 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85		
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60		
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40		
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	35		
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	32		
9	58	44	36	31	56	44	36	31	43	36	31	42	35	31	41	35	30	29		
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2433	2433	2433
5°	2433	2431	2429
10°	2422	2416	2413
15°	2397	2389	2383
20°	2365	2349	2336
25°	2320	2295	2277
30°	2268	2234	2212
35°	2204	2162	2138
40°	2134	2085	2059
45°	2061	2003	1973
50°	1977	1916	1882
55°	1890	1824	1790
60°	1793	1721	1689
65°	1687	1608	1576
70°	1570	1485	1448
75°	1424	1344	1322
80°	1234	1168	1175
85°	1017	1005	939

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2061 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.8	3.7
10°-20°	483.4	10.6
20°-30°	712.4	15.6
30°-40°	824.7	18.1
40°-50°	814.2	17.9
50°-60°	697.4	15.3
60°-70°	504.2	11.1
70°-80°	277.9	6.1
80°-90°	74.9	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°	1366.6	30.0
0°-40°	2191.3	48.1
0°-60°	3702.9	81.2
0°-90°	4559.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4559.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1808	1808	1808	1808	1808	
5°	1802	1801	1800	1798	1798	171
15°	1721	1719	1715	1712	1711	485
25°	1563	1558	1546	1538	1534	720
35°	1342	1333	1316	1305	1302	839
45°	1083	1069	1052	1042	1037	835
55°	806	790	778	766	763	720
65°	530	518	505	498	495	525
75°	274	265	259	258	254	291
85°	66	66	65	61	61	78
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1808.5	1808.5	1808.5	1808.5	1808.5
2.5°	1808.5	1808.5	1806.7	1806.7	1806.7
5°	1801.6	1800.7	1799.9	1798.2	1798.2
7.5°	1788.8	1788.8	1786.2	1786.2	1784.5
10°	1772.5	1770.8	1768.2	1768.2	1766.5
12.5°	1749.4	1747.7	1744.2	1743.4	1740.8
15°	1721.1	1719.4	1715.1	1712.5	1710.8
17.5°	1688.6	1686.0	1680.9	1676.6	1673.2
20°	1651.8	1648.3	1640.6	1635.5	1631.2
22.5°	1609.8	1606.4	1595.2	1589.2	1585.0
25°	1562.7	1558.4	1545.6	1537.9	1533.6
27.5°	1512.2	1507.0	1492.5	1483.9	1479.6
30°	1459.9	1452.2	1437.7	1427.4	1424.0
32.5°	1401.7	1394.0	1379.5	1367.5	1364.0
35°	1341.8	1333.2	1316.1	1305.0	1301.5
37.5°	1280.1	1269.0	1253.6	1242.5	1237.3
40°	1215.1	1203.9	1186.8	1174.8	1172.2
42.5°	1150.0	1136.3	1121.7	1109.7	1104.6
45°	1083.2	1068.6	1052.4	1042.1	1036.9
47.5°	1013.0	999.3	984.7	972.7	968.4
50°	944.5	929.9	915.4	904.2	899.1
52.5°	874.3	859.7	846.0	836.6	831.4
55°	805.8	790.3	777.5	766.4	762.9
57.5°	736.4	722.7	708.1	697.9	695.3
60°	666.2	654.2	639.6	630.2	627.6
62.5°	598.5	586.5	572.8	563.4	559.1
65°	530.0	518.0	505.2	497.5	494.9
67.5°	463.2	452.1	441.0	433.3	431.6
70°	399.0	387.9	377.6	370.8	368.2
72.5°	334.8	327.1	316.8	312.5	310.0
75°	274.0	265.4	258.6	257.7	254.3
77.5°	214.9	214.1	202.9	201.2	201.2
80°	159.3	156.7	150.7	149.0	151.6
82.5°	109.6	107.9	104.5	103.6	102.8
85°	65.9	65.9	65.1	60.8	60.8
87.5°	30.0	29.1	28.3	29.1	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)