

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: P995654

Luminaire Tested: 24D3X-LP-WD-80-L927.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995654
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-80-L927.ies
Description: 2x4 D3X-LP AT 8000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

Summary

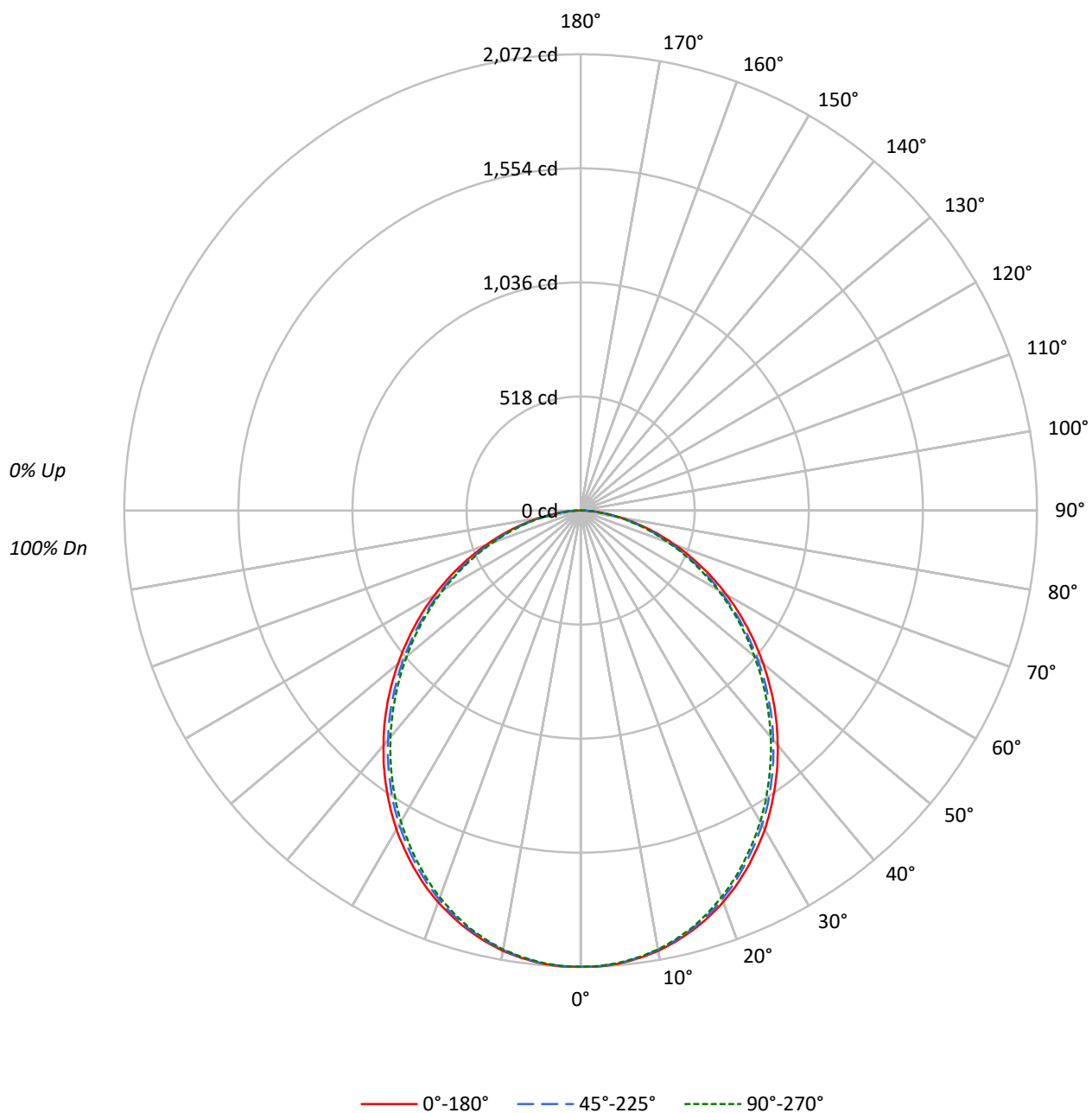
Lumens per Lamp: N/A
Luminaire Lumens: 5225.6 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 61.2
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°	2789	2789	2789
5°	2789	2786	2783
10°	2775	2768	2766
15°	2747	2738	2731
20°	2710	2692	2677
25°	2659	2629	2609
30°	2599	2560	2535
35°	2526	2477	2450
40°	2446	2389	2360
45°	2362	2295	2261
50°	2265	2196	2157
55°	2166	2090	2051
60°	2054	1972	1936
65°	1934	1843	1806
70°	1799	1702	1660
75°	1632	1540	1515
80°	1414	1338	1346
85°	1167	1152	1076

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2362 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.8	3.7
10°-20°	554.0	10.6
20°-30°	816.4	15.6
30°-40°	945.1	18.1
40°-50°	933.1	17.9
50°-60°	799.2	15.3
60°-70°	577.8	11.1
70°-80°	318.5	6.1
80°-90°	85.8	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°	1566.1	30.0
0°-40°	2511.2	48.1
0°-60°	4243.4	81.2
0°-90°	5225.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5225.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2072	2072	2072	2072	2072	
5°	2065	2064	2063	2061	2061	196
15°	1972	1970	1966	1963	1961	556
25°	1791	1786	1771	1762	1758	825
35°	1538	1528	1508	1496	1492	961
45°	1241	1225	1206	1194	1188	957
55°	923	906	891	878	874	825
65°	607	594	579	570	567	602
75°	314	304	296	295	291	333
85°	76	76	75	70	70	89
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2072.5	2072.5	2072.5	2072.5	2072.5
2.5°	2072.5	2072.5	2070.5	2070.5	2070.5
5°	2064.6	2063.6	2062.6	2060.7	2060.7
7.5°	2049.9	2049.9	2046.9	2046.9	2045.0
10°	2031.2	2029.3	2026.3	2026.3	2024.4
12.5°	2004.7	2002.8	1998.9	1997.9	1994.9
15°	1972.4	1970.4	1965.5	1962.6	1960.6
17.5°	1935.1	1932.1	1926.2	1921.3	1917.4
20°	1892.9	1889.0	1880.1	1874.2	1869.3
22.5°	1844.8	1840.9	1828.1	1821.3	1816.3
25°	1790.8	1785.9	1771.2	1762.4	1757.5
27.5°	1732.9	1727.0	1710.4	1700.6	1695.6
30°	1673.1	1664.2	1647.6	1635.8	1631.9
32.5°	1606.4	1597.5	1580.8	1567.1	1563.2
35°	1537.7	1527.8	1508.2	1495.5	1491.5
37.5°	1467.0	1454.3	1436.6	1423.8	1417.9
40°	1392.4	1379.7	1360.1	1346.3	1343.4
42.5°	1317.9	1302.2	1285.5	1271.7	1265.8
45°	1241.3	1224.6	1206.0	1194.2	1188.3
47.5°	1160.9	1145.2	1128.5	1114.7	1109.8
50°	1082.3	1065.7	1049.0	1036.2	1030.3
52.5°	1001.9	985.2	969.5	958.7	952.8
55°	923.4	905.7	891.0	878.2	874.3
57.5°	843.9	828.2	811.5	799.7	796.8
60°	763.4	749.7	733.0	722.2	719.3
62.5°	685.9	672.2	656.5	645.7	640.8
65°	607.4	593.7	579.0	570.1	567.2
67.5°	530.9	518.1	505.4	496.5	494.6
70°	457.3	444.5	432.7	424.9	421.9
72.5°	383.7	374.8	363.1	358.2	355.2
75°	314.0	304.2	296.3	295.4	291.4
77.5°	246.3	245.3	232.6	230.6	230.6
80°	182.5	179.6	172.7	170.7	173.7
82.5°	125.6	123.6	119.7	118.7	117.8
85°	75.6	75.6	74.6	69.7	69.7
87.5°	34.3	33.4	32.4	33.4	36.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)