

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: P995634

Luminaire Tested: 24D3X-LP-WD-60-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995634
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-60-L840.ies
Description: 2x4 D3X-LP AT 6000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

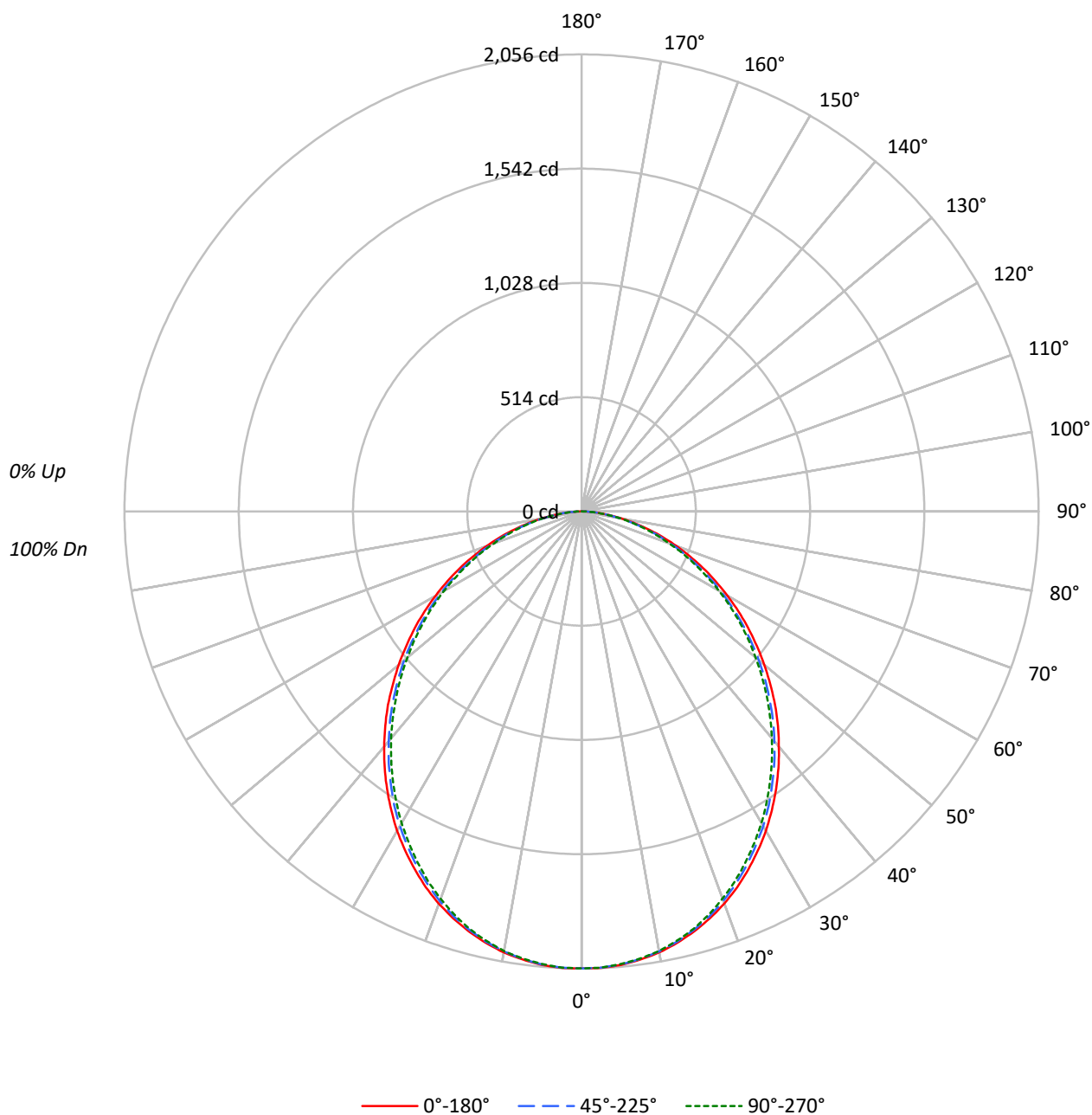
Lumens per Lamp: N/A
Luminaire Lumens: 5183.1 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 44.9
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°	2766	2766	2766
5°	2766	2763	2761
10°	2753	2746	2743
15°	2725	2716	2709
20°	2688	2670	2655
25°	2637	2608	2588
30°	2578	2539	2515
35°	2505	2457	2430
40°	2426	2369	2340
45°	2343	2276	2243
50°	2247	2178	2139
55°	2149	2073	2034
60°	2038	1957	1920
65°	1918	1828	1791
70°	1784	1688	1646
75°	1619	1528	1503
80°	1402	1327	1335
85°	1156	1142	1067

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2343 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.2	3.7
10°-20°	549.5	10.6
20°-30°	809.8	15.6
30°-40°	937.4	18.1
40°-50°	925.5	17.9
50°-60°	792.7	15.3
60°-70°	573.1	11.1
70°-80°	315.9	6.1
80°-90°	85.1	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°	1553.4	30.0
0°-40°	2490.8	48.1
0°-60°	4209.0	81.2
0°-90°	5183.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5183.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2056	2056	2056	2056	2056	
5°	2048	2047	2046	2044	2044	194
15°	1956	1954	1950	1947	1945	552
25°	1776	1771	1757	1748	1743	818
35°	1525	1515	1496	1483	1479	954
45°	1231	1215	1196	1184	1179	949
55°	916	898	884	871	867	819
65°	602	589	574	566	563	597
75°	312	302	294	293	289	331
85°	75	75	74	69	69	88
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2055.6	2055.6	2055.6	2055.6	2055.6
2.5°	2055.6	2055.6	2053.7	2053.7	2053.7
5°	2047.8	2046.9	2045.9	2043.9	2043.9
7.5°	2033.2	2033.2	2030.3	2030.3	2028.4
10°	2014.7	2012.8	2009.9	2009.9	2007.9
12.5°	1988.5	1986.5	1982.6	1981.6	1978.7
15°	1956.3	1954.4	1949.5	1946.6	1944.7
17.5°	1919.4	1916.4	1910.6	1905.7	1901.8
20°	1877.5	1873.6	1864.9	1859.0	1854.1
22.5°	1829.8	1825.9	1813.3	1806.5	1801.6
25°	1776.3	1771.4	1756.8	1748.1	1743.2
27.5°	1718.9	1713.0	1696.5	1686.7	1681.9
30°	1659.5	1650.7	1634.2	1622.5	1618.6
32.5°	1593.3	1584.5	1568.0	1554.4	1550.5
35°	1525.2	1515.4	1496.0	1483.3	1479.4
37.5°	1455.1	1442.4	1424.9	1412.3	1406.4
40°	1381.1	1368.5	1349.0	1335.4	1332.5
42.5°	1307.1	1291.6	1275.0	1261.4	1255.6
45°	1231.2	1214.7	1196.2	1184.5	1178.7
47.5°	1151.4	1135.8	1119.3	1105.7	1100.8
50°	1073.6	1057.0	1040.5	1027.8	1022.0
52.5°	993.7	977.2	961.6	950.9	945.1
55°	915.9	898.4	883.8	871.1	867.2
57.5°	837.0	821.5	804.9	793.2	790.3
60°	757.2	743.6	727.1	716.4	713.4
62.5°	680.3	666.7	651.1	640.4	635.6
65°	602.5	588.8	574.2	565.5	562.6
67.5°	526.6	513.9	501.3	492.5	490.5
70°	453.6	440.9	429.2	421.4	418.5
72.5°	380.6	371.8	360.1	355.3	352.3
75°	311.5	301.7	293.9	293.0	289.1
77.5°	244.3	243.3	230.7	228.7	228.7
80°	181.0	178.1	171.3	169.4	172.3
82.5°	124.6	122.6	118.7	117.8	116.8
85°	74.9	74.9	74.0	69.1	69.1
87.5°	34.1	33.1	32.1	33.1	36.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)