

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: P995633

Luminaire Tested: 24D3X-LP-WD-60-L835.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995633
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-L835.ies
Description: 2x4 D3X-LP AT 6000LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

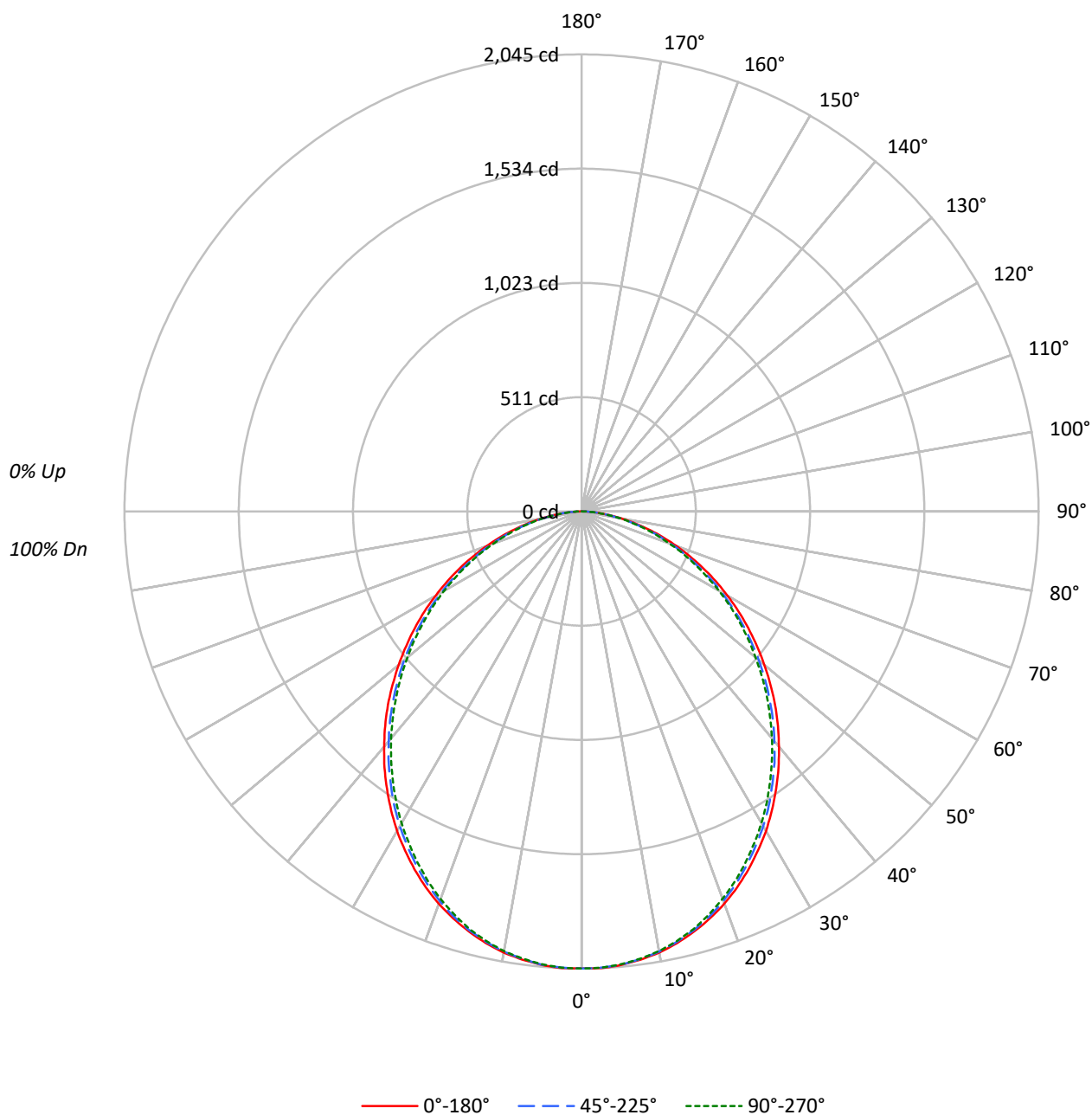
Lumens per Lamp: N/A
Luminaire Lumens: 5157.0 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	2752	2752	2752
5°	2752	2749	2747
10°	2739	2732	2729
15°	2711	2702	2695
20°	2675	2657	2641
25°	2624	2595	2575
30°	2565	2526	2502
35°	2493	2445	2418
40°	2414	2357	2328
45°	2331	2265	2231
50°	2236	2167	2128
55°	2138	2063	2024
60°	2027	1947	1910
65°	1908	1819	1782
70°	1775	1680	1638
75°	1611	1521	1495
80°	1395	1320	1328
85°	1152	1136	1062

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2331 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.2	3.7
10°-20°	546.7	10.6
20°-30°	805.7	15.6
30°-40°	932.7	18.1
40°-50°	920.8	17.9
50°-60°	788.7	15.3
60°-70°	570.2	11.1
70°-80°	314.3	6.1
80°-90°	84.6	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°	1545.6	30.0
0°-40°	2478.3	48.1
0°-60°	4187.8	81.2
0°-90°	5157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2045	2045	2045	2045	2045	
5°	2038	2037	2036	2034	2034	193
15°	1946	1945	1940	1937	1935	549
25°	1767	1762	1748	1739	1734	814
35°	1518	1508	1488	1476	1472	949
45°	1225	1209	1190	1178	1173	944
55°	911	894	879	867	863	815
65°	599	586	571	563	560	594
75°	310	300	292	292	288	329
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°	2045.3	2045.3	2045.3	2045.3	2045.3
2.5°	2045.3	2045.3	2043.3	2043.3	2043.3
5°	2037.5	2036.6	2035.6	2033.6	2033.6
7.5°	2023.0	2023.0	2020.1	2020.1	2018.2
10°	2004.6	2002.7	1999.8	1999.8	1997.8
12.5°	1978.4	1976.5	1972.6	1971.7	1968.8
15°	1946.5	1944.6	1939.7	1936.8	1934.9
17.5°	1909.7	1906.8	1901.0	1896.1	1892.3
20°	1868.1	1864.2	1855.5	1849.7	1844.8
22.5°	1820.6	1816.7	1804.1	1797.4	1792.5
25°	1767.3	1762.5	1748.0	1739.3	1734.4
27.5°	1710.2	1704.4	1687.9	1678.2	1673.4
30°	1651.1	1642.4	1625.9	1614.3	1610.5
32.5°	1585.3	1576.6	1560.1	1546.5	1542.7
35°	1517.5	1507.8	1488.4	1475.8	1472.0
37.5°	1447.8	1435.2	1417.7	1405.2	1399.3
40°	1374.2	1361.6	1342.2	1328.6	1325.7
42.5°	1300.6	1285.1	1268.6	1255.1	1249.2
45°	1225.0	1208.6	1190.2	1178.5	1172.7
47.5°	1145.6	1130.1	1113.7	1100.1	1095.3
50°	1068.1	1051.7	1035.2	1022.6	1016.8
52.5°	988.7	972.3	956.8	946.1	940.3
55°	911.3	893.8	879.3	866.7	862.8
57.5°	832.8	817.3	800.9	789.2	786.3
60°	753.4	739.9	723.4	712.7	709.8
62.5°	676.9	663.4	647.9	637.2	632.4
65°	599.4	585.9	571.4	562.6	559.7
67.5°	523.9	511.3	498.7	490.0	488.1
70°	451.3	438.7	427.1	419.3	416.4
72.5°	378.6	369.9	358.3	353.5	350.6
75°	309.9	300.2	292.5	291.5	287.6
77.5°	243.1	242.1	229.5	227.6	227.6
80°	180.1	177.2	170.4	168.5	171.4
82.5°	124.0	122.0	118.1	117.2	116.2
85°	74.6	74.6	73.6	68.8	68.8
87.5°	33.9	32.9	32.0	32.9	35.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)