

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: P995626

Luminaire Tested: 24D3X-LP-WD-55-L850.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995626
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-55-L850.ies
Description: 2x4 D3X-LP AT 5500LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

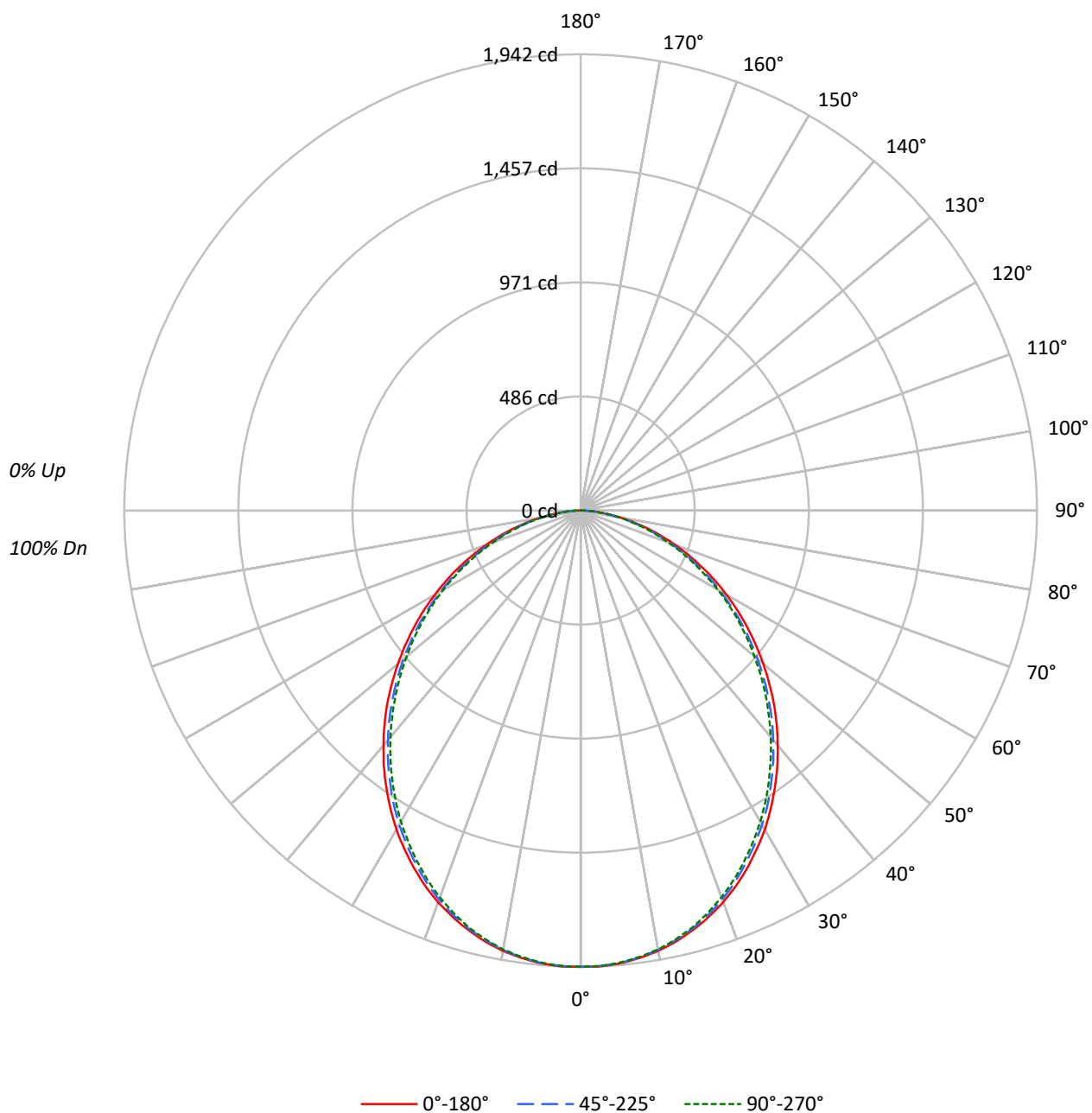
Lumens per Lamp: N/A
Luminaire Lumens: 4897.8 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 41.2
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°	2614	2614	2614
5°	2614	2611	2609
10°	2601	2595	2592
15°	2575	2566	2560
20°	2540	2523	2509
25°	2492	2465	2446
30°	2436	2399	2376
35°	2367	2322	2296
40°	2292	2239	2211
45°	2214	2151	2119
50°	2124	2058	2021
55°	2030	1959	1922
60°	1926	1849	1814
65°	1812	1727	1692
70°	1686	1596	1556
75°	1530	1444	1420
80°	1326	1254	1261
85°	1093	1079	1008

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.5	3.7
10°-20°	519.2	10.6
20°-30°	765.2	15.6
30°-40°	885.8	18.1
40°-50°	874.5	17.9
50°-60°	749.1	15.3
60°-70°	541.6	11.1
70°-80°	298.5	6.1
80°-90°	80.4	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°	1467.9	30.0
0°-40°	2353.7	48.1
0°-60°	3977.3	81.2
0°-90°	4897.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4897.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1942	1942	1942	1942	1942	
5°	1935	1934	1933	1932	1932	184
15°	1849	1847	1842	1840	1838	521
25°	1678	1674	1660	1652	1647	773
35°	1441	1432	1414	1402	1398	901
45°	1164	1148	1130	1119	1114	897
55°	866	849	835	823	820	774
65°	569	556	543	534	532	564
75°	294	285	278	277	273	312
85°	71	71	70	65	65	83
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1942.5	1942.5	1942.5	1942.5	1942.5
2.5°	1942.5	1942.5	1940.7	1940.7	1940.7
5°	1935.1	1934.2	1933.3	1931.5	1931.5
7.5°	1921.3	1921.3	1918.6	1918.6	1916.7
10°	1903.9	1902.0	1899.3	1899.3	1897.4
12.5°	1879.0	1877.2	1873.5	1872.6	1869.8
15°	1848.7	1846.8	1842.2	1839.5	1837.6
17.5°	1813.7	1811.0	1805.5	1800.9	1797.2
20°	1774.2	1770.5	1762.2	1756.7	1752.1
22.5°	1729.1	1725.4	1713.5	1707.0	1702.4
25°	1678.5	1673.9	1660.1	1651.9	1647.3
27.5°	1624.3	1618.7	1603.1	1593.9	1589.3
30°	1568.2	1559.9	1544.2	1533.2	1529.5
32.5°	1505.6	1497.3	1481.7	1468.8	1465.1
35°	1441.2	1432.0	1413.6	1401.7	1398.0
37.5°	1375.0	1363.1	1346.5	1334.5	1329.0
40°	1305.1	1293.2	1274.8	1261.9	1259.1
42.5°	1235.2	1220.5	1204.9	1192.0	1186.5
45°	1163.5	1147.8	1130.4	1119.3	1113.8
47.5°	1088.1	1073.3	1057.7	1044.8	1040.2
50°	1014.5	998.8	983.2	971.2	965.7
52.5°	939.1	923.4	908.7	898.6	893.1
55°	865.5	848.9	835.1	823.2	819.5
57.5°	791.0	776.3	760.6	749.6	746.8
60°	715.6	702.7	687.0	676.9	674.2
62.5°	642.9	630.0	615.3	605.2	600.6
65°	569.3	556.4	542.6	534.4	531.6
67.5°	497.6	485.6	473.7	465.4	463.6
70°	428.6	416.6	405.6	398.2	395.5
72.5°	359.6	351.3	340.3	335.7	332.9
75°	294.3	285.1	277.8	276.8	273.2
77.5°	230.9	229.9	218.0	216.1	216.1
80°	171.1	168.3	161.9	160.0	162.8
82.5°	117.7	115.9	112.2	111.3	110.4
85°	70.8	70.8	69.9	65.3	65.3
87.5°	32.2	31.3	30.4	31.3	34.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)