

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: P995650

Luminaire Tested: 24D3X-LP-WD-80-L830.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995650
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-L830.ies
Description: 2x4 D3X-LP AT 8000LM 3000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

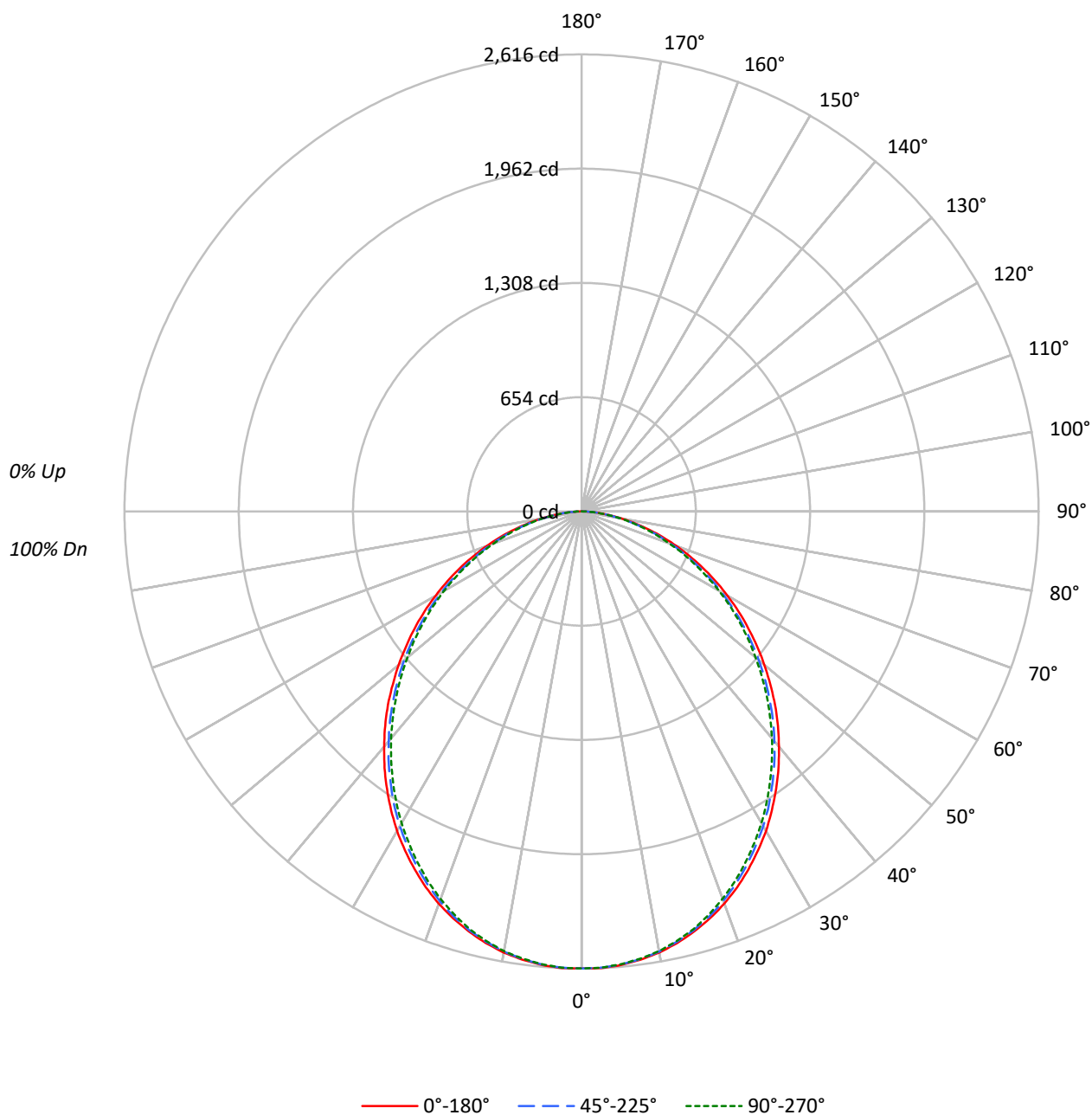
Lumens per Lamp: N/A
Luminaire Lumens: 6596.1 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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°	3520	3520	3520
5°	3520	3516	3513
10°	3503	3495	3491
15°	3468	3456	3447
20°	3421	3398	3379
25°	3356	3319	3293
30°	3281	3231	3200
35°	3188	3127	3092
40°	3087	3015	2978
45°	2982	2897	2854
50°	2860	2772	2722
55°	2734	2638	2589
60°	2593	2490	2443
65°	2441	2327	2279
70°	2271	2149	2095
75°	2061	1945	1913
80°	1785	1689	1698
85°	1473	1453	1357

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2982 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	3.7
10°-20°	699.3	10.6
20°-30°	1030.5	15.6
30°-40°	1193.0	18.1
40°-50°	1177.8	17.9
50°-60°	1008.8	15.3
60°-70°	729.4	11.1
70°-80°	402.1	6.1
80°-90°	108.3	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°	1976.9	30.0
0°-40°	3169.8	48.1
0°-60°	5356.4	81.2
0°-90°	6596.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6596.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2616	2616	2616	2616	2616	
5°	2606	2605	2604	2601	2601	247
15°	2490	2487	2481	2477	2475	702
25°	2260	2254	2236	2225	2218	1041
35°	1941	1929	1904	1888	1883	1214
45°	1567	1546	1522	1507	1500	1207
55°	1166	1143	1125	1109	1104	1042
65°	767	749	731	720	716	760
75°	396	384	374	373	368	421
85°	95	95	94	88	88	112
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2616.0	2616.0	2616.0	2616.0	2616.0
2.5°	2616.0	2616.0	2613.5	2613.5	2613.5
5°	2606.1	2604.9	2603.6	2601.2	2601.2
7.5°	2587.5	2587.5	2583.8	2583.8	2581.3
10°	2564.0	2561.5	2557.8	2557.8	2555.3
12.5°	2530.5	2528.1	2523.1	2521.9	2518.2
15°	2489.7	2487.2	2481.0	2477.3	2474.8
17.5°	2442.6	2438.9	2431.5	2425.3	2420.3
20°	2389.3	2384.4	2373.2	2365.8	2359.6
22.5°	2328.7	2323.7	2307.6	2298.9	2292.7
25°	2260.5	2254.3	2235.8	2224.6	2218.4
27.5°	2187.4	2180.0	2159.0	2146.6	2140.4
30°	2111.9	2100.7	2079.7	2064.8	2059.9
32.5°	2027.7	2016.5	1995.5	1978.1	1973.2
35°	1941.0	1928.6	1903.8	1887.7	1882.7
37.5°	1851.8	1835.7	1813.4	1797.3	1789.8
40°	1757.6	1741.5	1716.8	1699.4	1695.7
42.5°	1663.5	1643.7	1622.6	1605.3	1597.9
45°	1566.9	1545.8	1522.3	1507.4	1500.0
47.5°	1465.3	1445.5	1424.4	1407.1	1400.9
50°	1366.2	1345.2	1324.1	1308.0	1300.6
52.5°	1264.7	1243.6	1223.8	1210.2	1202.7
55°	1165.6	1143.3	1124.7	1108.6	1103.6
57.5°	1065.2	1045.4	1024.4	1009.5	1005.8
60°	963.7	946.3	925.3	911.6	907.9
62.5°	865.8	848.5	828.7	815.0	808.8
65°	766.7	749.4	730.8	719.7	715.9
67.5°	670.1	654.0	637.9	626.8	624.3
70°	577.2	561.1	546.2	536.3	532.6
72.5°	484.3	473.2	458.3	452.1	448.4
75°	396.4	384.0	374.1	372.8	367.9
77.5°	310.9	309.7	293.6	291.1	291.1
80°	230.4	226.7	218.0	215.5	219.2
82.5°	158.5	156.1	151.1	149.9	148.6
85°	95.4	95.4	94.1	87.9	87.9
87.5°	43.4	42.1	40.9	42.1	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)