

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: P#

Luminaire Tested: 24D3X-LP-80-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
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-80-L950.ies
Description: 2x4 D3X-LP AT 8000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

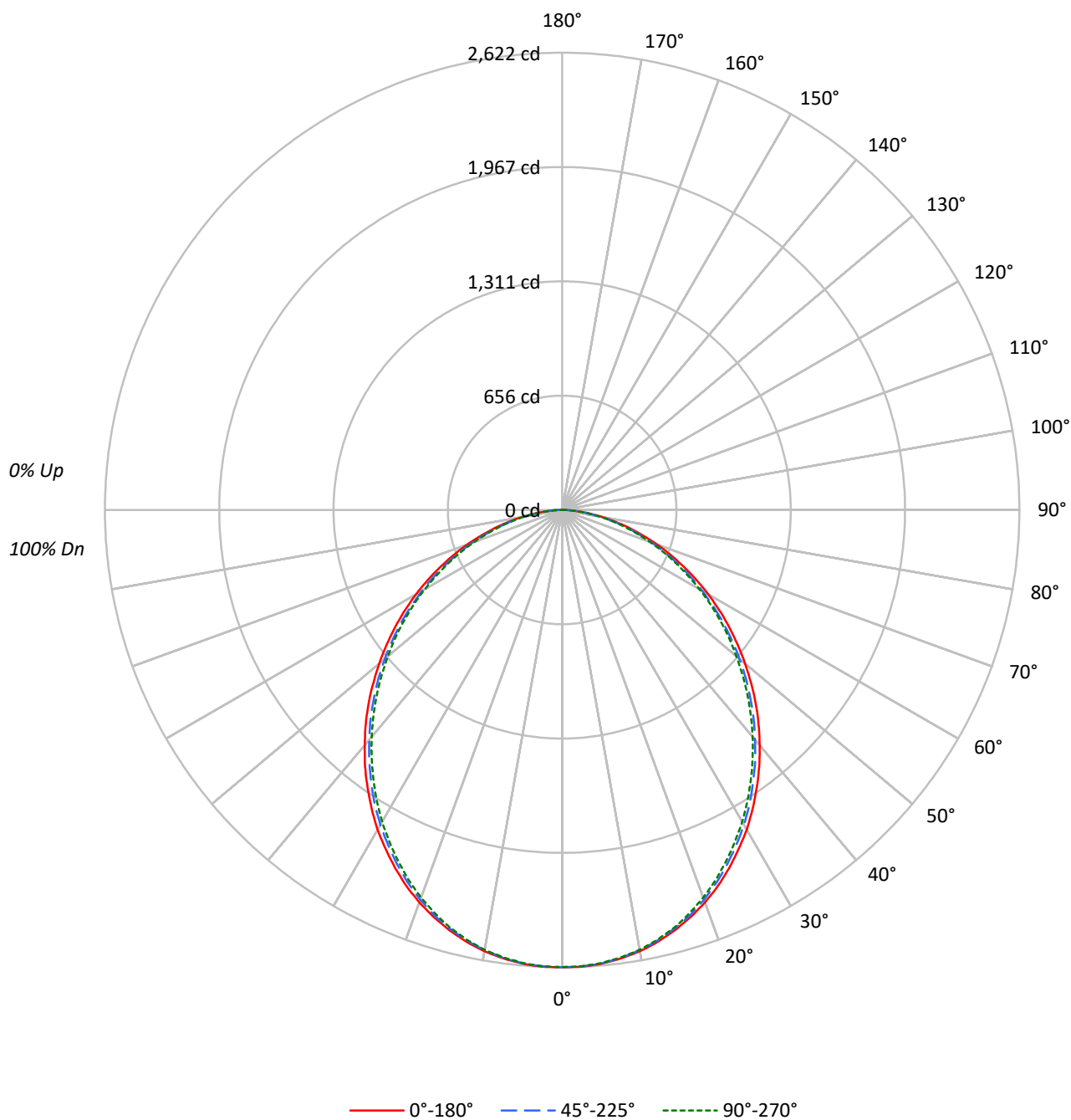
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6610.8 lumens
Efficiency: N/A
Efficacy: 108.0 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				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52
7	66	53	44	38	64	52	44	38	51	43	38		49	42	38		48
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3528	3528	3528
5°	3528	3524	3521
10°	3511	3502	3499
15°	3476	3464	3455
20°	3429	3406	3386
25°	3363	3327	3301
30°	3288	3238	3207
35°	3195	3134	3099
40°	3094	3022	2985
45°	2988	2903	2860
50°	2866	2778	2728
55°	2740	2644	2595
60°	2599	2495	2449
65°	2446	2332	2284
70°	2276	2154	2100
75°	2065	1949	1917
80°	1789	1693	1702
85°	1476	1456	1360

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2988 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.6	3.7
10°-20°	700.8	10.6
20°-30°	1032.8	15.6
30°-40°	1195.6	18.1
40°-50°	1180.4	17.9
50°-60°	1011.1	15.3
60°-70°	731.0	11.1
70°-80°	403.0	6.1
80°-90°	108.5	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°	1981.3	30.0
0°-40°	3176.9	48.1
0°-60°	5368.4	81.2
0°-90°	6610.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6610.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2622	2622	2622	2622	2622	
5°	2612	2611	2609	2607	2607	248
15°	2495	2493	2486	2483	2480	703
25°	2266	2259	2241	2230	2223	1043
35°	1945	1933	1908	1892	1887	1216
45°	1570	1549	1526	1511	1503	1210
55°	1168	1146	1127	1111	1106	1044
65°	768	751	732	721	718	762
75°	397	385	375	374	369	422
85°	96	96	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°	2621.8	2621.8	2621.8	2621.8	2621.8
2.5°	2621.8	2621.8	2619.4	2619.4	2619.4
5°	2611.9	2610.7	2609.4	2606.9	2606.9
7.5°	2593.3	2593.3	2589.6	2589.6	2587.1
10°	2569.7	2567.2	2563.5	2563.5	2561.0
12.5°	2536.2	2533.7	2528.7	2527.5	2523.8
15°	2495.2	2492.7	2486.5	2482.8	2480.3
17.5°	2448.0	2444.3	2436.9	2430.7	2425.7
20°	2394.7	2389.7	2378.5	2371.1	2364.9
22.5°	2333.8	2328.9	2312.7	2304.0	2297.8
25°	2265.6	2259.4	2240.7	2229.6	2223.4
27.5°	2192.3	2184.9	2163.8	2151.4	2145.1
30°	2116.6	2105.4	2084.3	2069.4	2064.5
32.5°	2032.2	2021.0	1999.9	1982.5	1977.6
35°	1945.3	1932.9	1908.0	1891.9	1886.9
37.5°	1855.9	1839.8	1817.4	1801.3	1793.8
40°	1761.6	1745.4	1720.6	1703.2	1699.5
42.5°	1667.2	1647.3	1626.2	1608.9	1601.4
45°	1570.4	1549.3	1525.7	1510.8	1503.3
47.5°	1468.6	1448.7	1427.6	1410.2	1404.0
50°	1369.3	1348.2	1327.1	1310.9	1303.5
52.5°	1267.5	1246.4	1226.5	1212.9	1205.4
55°	1168.2	1145.8	1127.2	1111.1	1106.1
57.5°	1067.6	1047.7	1026.6	1011.7	1008.0
60°	965.8	948.4	927.3	913.7	909.9
62.5°	867.7	850.4	830.5	816.8	810.6
65°	768.4	751.0	732.4	721.3	717.5
67.5°	671.6	655.5	639.3	628.2	625.7
70°	578.5	562.4	547.5	537.5	533.8
72.5°	485.4	474.2	459.3	453.1	449.4
75°	397.2	384.8	374.9	373.7	368.7
77.5°	311.6	310.4	294.2	291.7	291.7
80°	230.9	227.2	218.5	216.0	219.7
82.5°	158.9	156.4	151.5	150.2	149.0
85°	95.6	95.6	94.3	88.1	88.1
87.5°	43.4	42.2	41.0	42.2	45.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	15.4	17.0	15.8	17.4	17.7	15.2	16.8	15.5	17.1	17.4
	3H	17.1	18.6	17.5	18.9	19.3	16.8	18.2	17.2	18.6	18.9
	4H	17.7	19.1	18.1	19.5	19.8	17.4	18.8	17.8	19.1	19.5
	6H	18.2	19.4	18.6	19.8	20.2	17.8	19.1	18.2	19.5	19.8
	8H	18.3	19.5	18.7	19.9	20.3	18.0	19.2	18.4	19.6	20.0
	12H	18.4	19.6	18.8	19.9	20.4	18.0	19.2	18.5	19.6	20.0
4H	2H	16.0	17.3	16.4	17.7	18.1	15.8	17.1	16.2	17.5	17.9
	3H	17.9	19.0	18.3	19.4	19.8	17.6	18.8	18.0	19.2	19.6
	4H	18.6	19.7	19.1	20.1	20.5	18.3	19.4	18.8	19.8	20.2
	6H	19.2	20.1	19.7	20.5	21.0	18.9	19.8	19.3	20.2	20.7
	8H	19.4	20.2	19.8	20.7	21.1	19.1	19.9	19.5	20.3	20.8
	12H	19.5	20.3	20.0	20.7	21.2	19.2	19.9	19.7	20.4	20.9
8H	4H	18.9	19.7	19.4	20.2	20.6	18.6	19.5	19.1	19.9	20.4
	6H	19.6	20.3	20.1	20.8	21.2	19.3	20.0	19.8	20.5	21.0
	8H	19.8	20.4	20.3	20.9	21.4	19.5	20.2	20.0	20.7	21.1
	12H	20.0	20.6	20.5	21.1	21.6	19.7	20.3	20.2	20.8	21.3
12H	4H	18.9	19.7	19.4	20.1	20.6	18.7	19.4	19.1	19.9	20.4
	6H	19.6	20.2	20.1	20.7	21.2	19.4	20.0	19.9	20.4	21.0
	8H	19.9	20.5	20.4	20.9	21.5	19.6	20.2	20.1	20.7	21.2



(END OF REPORT)