

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-70-L927.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-70-L927.ies
Description: 2x4 D3X-LP AT 7000LM 2700K 90CRI
Light Source: -
Ballast/Driver: -

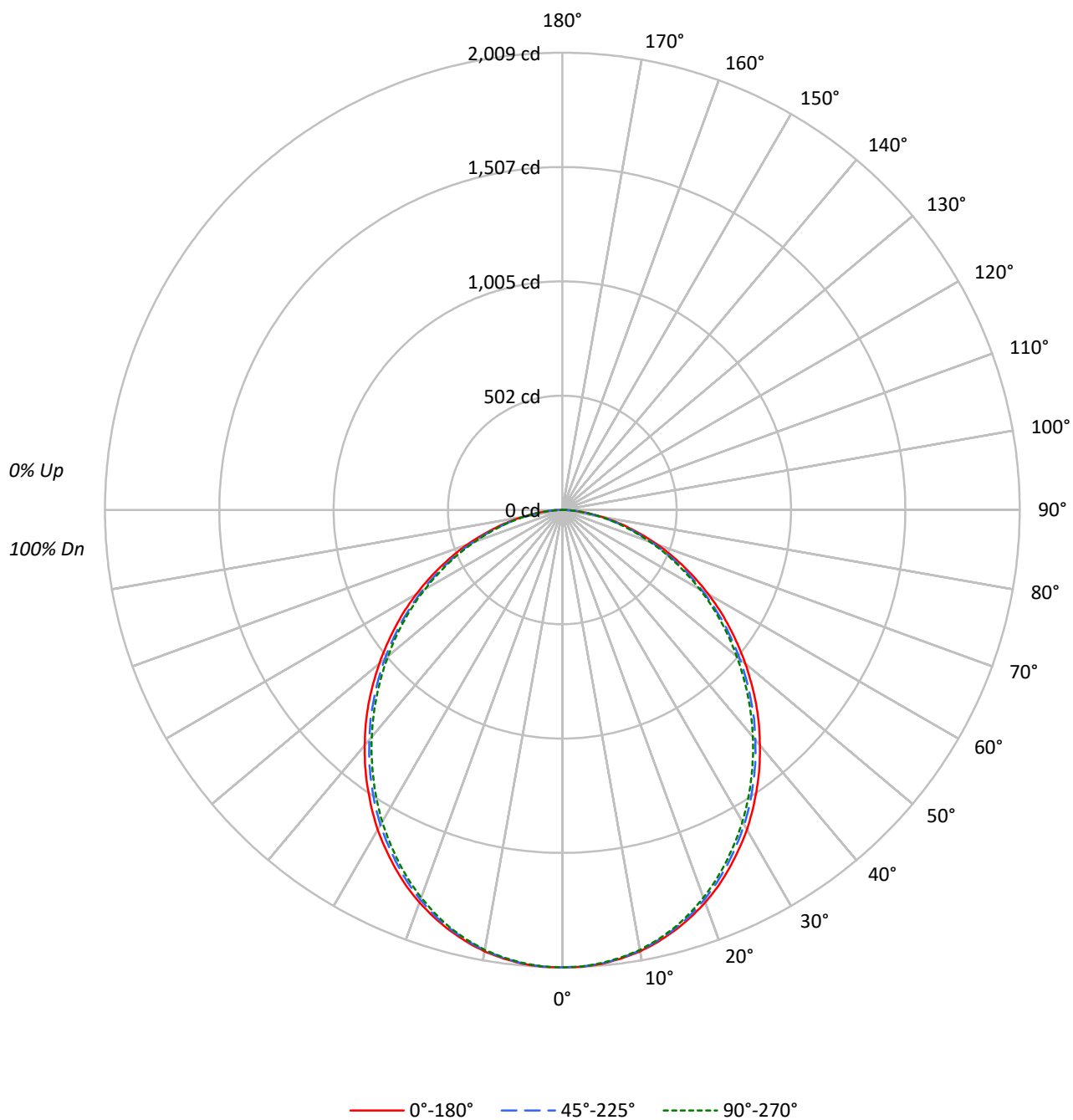
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5066.5 lumens
Efficiency: N/A
Efficacy: 98.4 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): 51.5
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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	87	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	73	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	63	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	54	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	47	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	42	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37	37	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33	33	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	30	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	28	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2704	2704	2704
5°	2704	2701	2699
10°	2691	2684	2682
15°	2664	2655	2648
20°	2628	2610	2595
25°	2578	2549	2530
30°	2520	2482	2458
35°	2449	2402	2375
40°	2371	2316	2288
45°	2290	2225	2192
50°	2197	2129	2091
55°	2100	2027	1989
60°	1992	1912	1877
65°	1875	1787	1751
70°	1744	1651	1609
75°	1583	1494	1469
80°	1371	1297	1305
85°	1132	1116	1044

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 2290 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.8	3.7
10°-20°	537.1	10.6
20°-30°	791.5	15.6
30°-40°	916.3	18.1
40°-50°	904.7	17.9
50°-60°	774.9	15.3
60°-70°	560.2	11.1
70°-80°	308.8	6.1
80°-90°	83.2	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°	1518.4	30.0
0°-40°	2434.8	48.1
0°-60°	4114.3	81.2
0°-90°	5066.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5066.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2009	2009	2009	2009	2009	
5°	2002	2001	2000	1998	1998	190
15°	1912	1910	1906	1903	1901	539
25°	1736	1732	1717	1709	1704	799
35°	1491	1481	1462	1450	1446	932
45°	1204	1187	1169	1158	1152	927
55°	895	878	864	852	848	800
65°	589	576	561	553	550	584
75°	304	295	287	286	283	323
85°	73	73	72	68	68	86
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2009.4	2009.4	2009.4	2009.4	2009.4
2.5°	2009.4	2009.4	2007.5	2007.5	2007.5
5°	2001.8	2000.8	1999.9	1998.0	1998.0
7.5°	1987.5	1987.5	1984.7	1984.7	1982.7
10°	1969.4	1967.5	1964.7	1964.7	1962.8
12.5°	1943.7	1941.8	1938.0	1937.1	1934.2
15°	1912.3	1910.4	1905.7	1902.8	1900.9
17.5°	1876.2	1873.3	1867.6	1862.9	1859.1
20°	1835.3	1831.5	1822.9	1817.2	1812.4
22.5°	1788.7	1784.9	1772.5	1765.8	1761.1
25°	1736.3	1731.6	1717.3	1708.7	1704.0
27.5°	1680.2	1674.5	1658.3	1648.8	1644.0
30°	1622.2	1613.6	1597.4	1586.0	1582.2
32.5°	1557.5	1548.9	1532.7	1519.4	1515.6
35°	1490.9	1481.4	1462.3	1450.0	1446.2
37.5°	1422.4	1410.0	1392.9	1380.5	1374.8
40°	1350.1	1337.7	1318.7	1305.3	1302.5
42.5°	1277.8	1262.5	1246.4	1233.0	1227.3
45°	1203.5	1187.4	1169.3	1157.9	1152.2
47.5°	1125.5	1110.3	1094.1	1080.8	1076.1
50°	1049.4	1033.2	1017.1	1004.7	999.0
52.5°	971.4	955.2	940.0	929.5	923.8
55°	895.3	878.2	863.9	851.5	847.7
57.5°	818.2	803.0	786.8	775.4	772.5
60°	740.2	726.9	710.7	700.2	697.4
62.5°	665.0	651.7	636.5	626.0	621.3
65°	588.9	575.6	561.3	552.8	549.9
67.5°	514.7	502.3	490.0	481.4	479.5
70°	443.4	431.0	419.6	412.0	409.1
72.5°	372.0	363.4	352.0	347.3	344.4
75°	304.5	294.9	287.3	286.4	282.6
77.5°	238.8	237.9	225.5	223.6	223.6
80°	177.0	174.1	167.4	165.5	168.4
82.5°	121.8	119.9	116.1	115.1	114.2
85°	73.3	73.3	72.3	67.6	67.6
87.5°	33.3	32.3	31.4	32.3	35.2
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	14.5	16.1	14.9	16.4	16.7	14.2	15.8	14.6	16.2	16.5
	3H	16.2	17.6	16.6	18.0	18.3	15.9	17.3	16.3	17.6	18.0
	4H	16.8	18.2	17.2	18.5	18.9	16.5	17.8	16.9	18.2	18.6
	6H	17.3	18.5	17.7	18.9	19.3	16.9	18.2	17.3	18.5	18.9
	8H	17.4	18.6	17.8	19.0	19.4	17.0	18.2	17.5	18.6	19.0
	12H	17.5	18.6	17.9	19.0	19.4	17.1	18.3	17.6	18.7	19.1
4H	2H	15.1	16.4	15.5	16.8	17.1	14.8	16.2	15.2	16.6	16.9
	3H	17.0	18.1	17.4	18.5	18.9	16.7	17.8	17.1	18.2	18.6
	4H	17.7	18.7	18.1	19.1	19.6	17.4	18.4	17.9	18.9	19.3
	6H	18.3	19.2	18.7	19.6	20.1	18.0	18.9	18.4	19.3	19.8
	8H	18.5	19.3	18.9	19.7	20.2	18.1	19.0	18.6	19.4	19.9
	12H	18.6	19.3	19.1	19.8	20.3	18.3	19.0	18.7	19.5	20.0
8H	4H	18.0	18.8	18.4	19.2	19.7	17.7	18.5	18.2	19.0	19.5
	6H	18.6	19.3	19.1	19.8	20.3	18.4	19.1	18.9	19.6	20.0
	8H	18.9	19.5	19.4	20.0	20.5	18.6	19.2	19.1	19.7	20.2
	12H	19.1	19.6	19.6	20.1	20.7	18.8	19.3	19.3	19.8	20.4
12H	4H	18.0	18.7	18.5	19.2	19.7	17.7	18.5	18.2	19.0	19.4
	6H	18.7	19.3	19.2	19.8	20.3	18.4	19.1	18.9	19.5	20.1
	8H	19.0	19.5	19.5	20.0	20.6	18.7	19.3	19.2	19.7	20.3

(END OF REPORT)