

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-50-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-50-L950.ies
Description: 2x4 D3X-LP AT 5000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

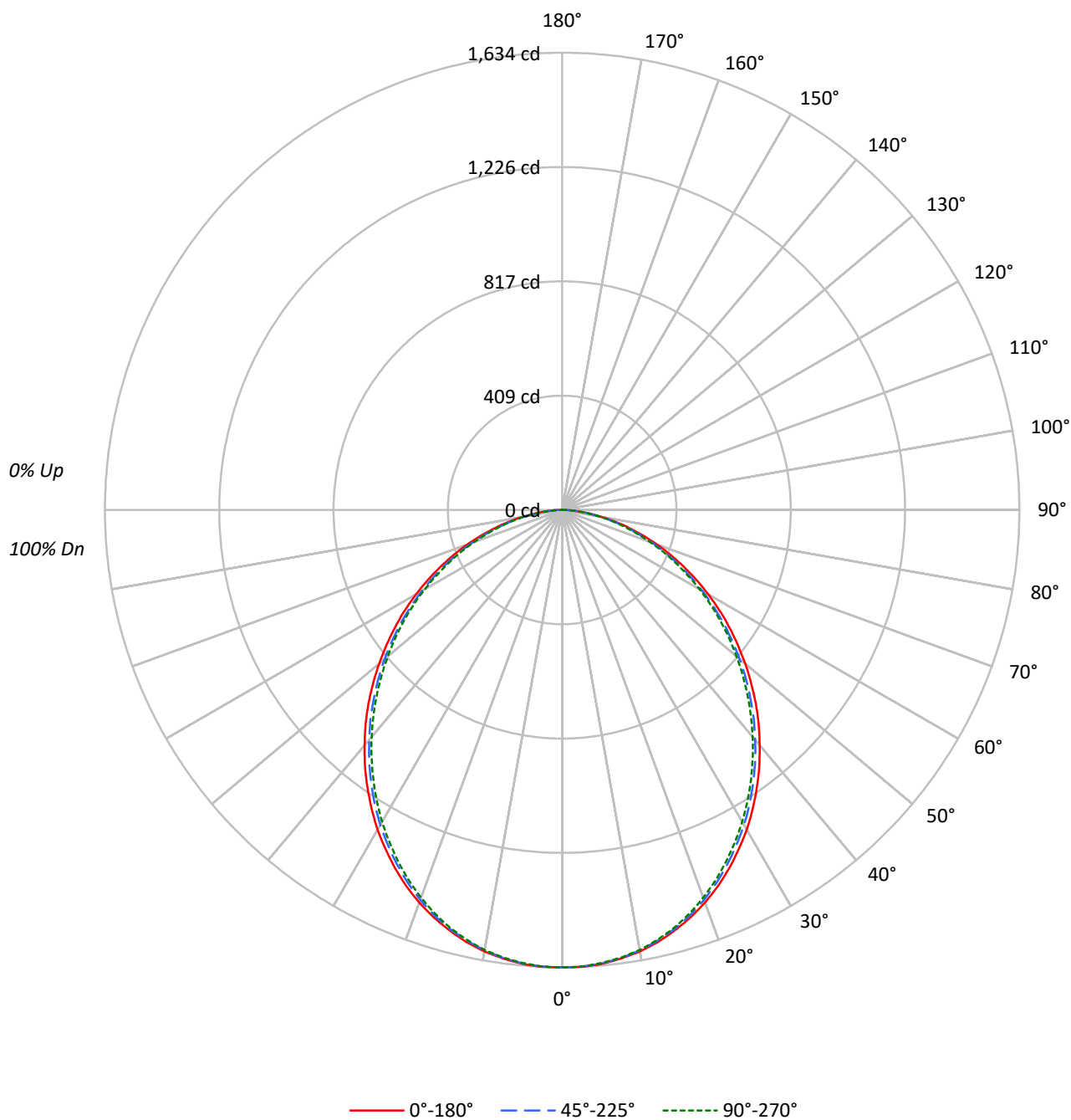
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4121.3 lumens
Efficiency: N/A
Efficacy: 111.4 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): 37
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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	51	43	38	49	42	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	33
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2199	2199	2199
5°	2199	2197	2195
10°	2189	2184	2181
15°	2167	2159	2154
20°	2138	2123	2111
25°	2097	2074	2058
30°	2050	2019	2000
35°	1992	1954	1932
40°	1929	1884	1861
45°	1863	1810	1783
50°	1787	1732	1701
55°	1708	1648	1618
60°	1620	1556	1527
65°	1525	1454	1424
70°	1419	1343	1309
75°	1288	1215	1195
80°	1116	1055	1062
85°	920	908	848

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1863 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	3.7
10°-20°	436.9	10.6
20°-30°	643.9	15.6
30°-40°	745.4	18.1
40°-50°	735.9	17.9
50°-60°	630.3	15.3
60°-70°	455.7	11.1
70°-80°	251.2	6.1
80°-90°	67.6	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°	1235.2	30.0
0°-40°	1980.6	48.1
0°-60°	3346.8	81.2
0°-90°	4121.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4121.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1634	1634	1634	1634	1634	
5°	1628	1628	1627	1625	1625	155
15°	1556	1554	1550	1548	1546	439
25°	1412	1408	1397	1390	1386	650
35°	1213	1205	1190	1180	1176	758
45°	979	966	951	942	937	754
55°	728	714	703	693	690	651
65°	479	468	457	450	447	475
75°	248	240	234	233	230	263
85°	60	60	59	55	55	70
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.5	1634.5	1634.5	1634.5	1634.5
2.5°	1634.5	1634.5	1633.0	1633.0	1633.0
5°	1628.3	1627.6	1626.8	1625.2	1625.2
7.5°	1616.7	1616.7	1614.4	1614.4	1612.9
10°	1602.0	1600.5	1598.2	1598.2	1596.6
12.5°	1581.1	1579.6	1576.5	1575.7	1573.4
15°	1555.6	1554.0	1550.2	1547.8	1546.3
17.5°	1526.2	1523.9	1519.2	1515.3	1512.2
20°	1492.9	1489.8	1482.8	1478.2	1474.3
22.5°	1455.0	1451.9	1441.8	1436.4	1432.5
25°	1412.4	1408.5	1396.9	1390.0	1386.1
27.5°	1366.8	1362.1	1349.0	1341.2	1337.3
30°	1319.5	1312.6	1299.4	1290.1	1287.0
32.5°	1266.9	1259.9	1246.8	1236.0	1232.9
35°	1212.7	1205.0	1189.5	1179.5	1176.4
37.5°	1157.0	1147.0	1133.0	1123.0	1118.3
40°	1098.2	1088.1	1072.7	1061.8	1059.5
42.5°	1039.4	1027.0	1013.8	1003.0	998.4
45°	979.0	965.9	951.2	941.9	937.2
47.5°	915.6	903.2	890.0	879.2	875.3
50°	853.6	840.5	827.3	817.3	812.6
52.5°	790.2	777.0	764.6	756.1	751.5
55°	728.3	714.3	702.7	692.7	689.6
57.5°	665.6	653.2	640.0	630.7	628.4
60°	602.1	591.3	578.1	569.6	567.3
62.5°	541.0	530.1	517.8	509.2	505.4
65°	479.1	468.2	456.6	449.7	447.3
67.5°	418.7	408.6	398.6	391.6	390.1
70°	360.6	350.6	341.3	335.1	332.8
72.5°	302.6	295.6	286.4	282.5	280.2
75°	247.7	239.9	233.7	233.0	229.9
77.5°	194.3	193.5	183.4	181.9	181.9
80°	144.0	141.6	136.2	134.7	137.0
82.5°	99.1	97.5	94.4	93.6	92.9
85°	59.6	59.6	58.8	54.9	54.9
87.5°	27.1	26.3	25.5	26.3	28.6
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	13.8	15.4	14.2	15.7	16.0	13.5	15.1	13.9	15.4	15.8
	3H	15.5	16.9	15.9	17.3	17.6	15.2	16.6	15.5	16.9	17.3
	4H	16.1	17.5	16.5	17.8	18.2	15.8	17.1	16.2	17.5	17.8
	6H	16.5	17.8	17.0	18.2	18.6	16.2	17.4	16.6	17.8	18.2
	8H	16.7	17.9	17.1	18.3	18.7	16.3	17.5	16.8	17.9	18.3
	12H	16.8	17.9	17.2	18.3	18.7	16.4	17.6	16.8	17.9	18.4
4H	2H	14.4	15.7	14.7	16.1	16.4	14.1	15.5	14.5	15.8	16.2
	3H	16.3	17.4	16.7	17.8	18.2	16.0	17.1	16.4	17.5	17.9
	4H	17.0	18.0	17.4	18.4	18.9	16.7	17.7	17.1	18.1	18.6
	6H	17.6	18.5	18.0	18.9	19.4	17.3	18.1	17.7	18.6	19.0
	8H	17.7	18.6	18.2	19.0	19.5	17.4	18.3	17.9	18.7	19.2
	12H	17.9	18.6	18.3	19.1	19.6	17.5	18.3	18.0	18.8	19.2
8H	4H	17.2	18.1	17.7	18.5	19.0	17.0	17.8	17.5	18.3	18.7
	6H	17.9	18.6	18.4	19.1	19.6	17.7	18.3	18.1	18.8	19.3
	8H	18.2	18.8	18.7	19.3	19.8	17.9	18.5	18.4	19.0	19.5
	12H	18.4	18.9	18.9	19.4	20.0	18.1	18.6	18.6	19.1	19.7
12H	4H	17.3	18.0	17.8	18.5	19.0	17.0	17.8	17.5	18.2	18.7
	6H	18.0	18.6	18.5	19.1	19.6	17.7	18.3	18.2	18.8	19.3
	8H	18.3	18.8	18.8	19.3	19.9	18.0	18.5	18.5	19.0	19.6

(END OF REPORT)