

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: P601173

Luminaire Tested: 24D3X-LP-50-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-50-L930
Description: 2x4 D3X-LP AT 5000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

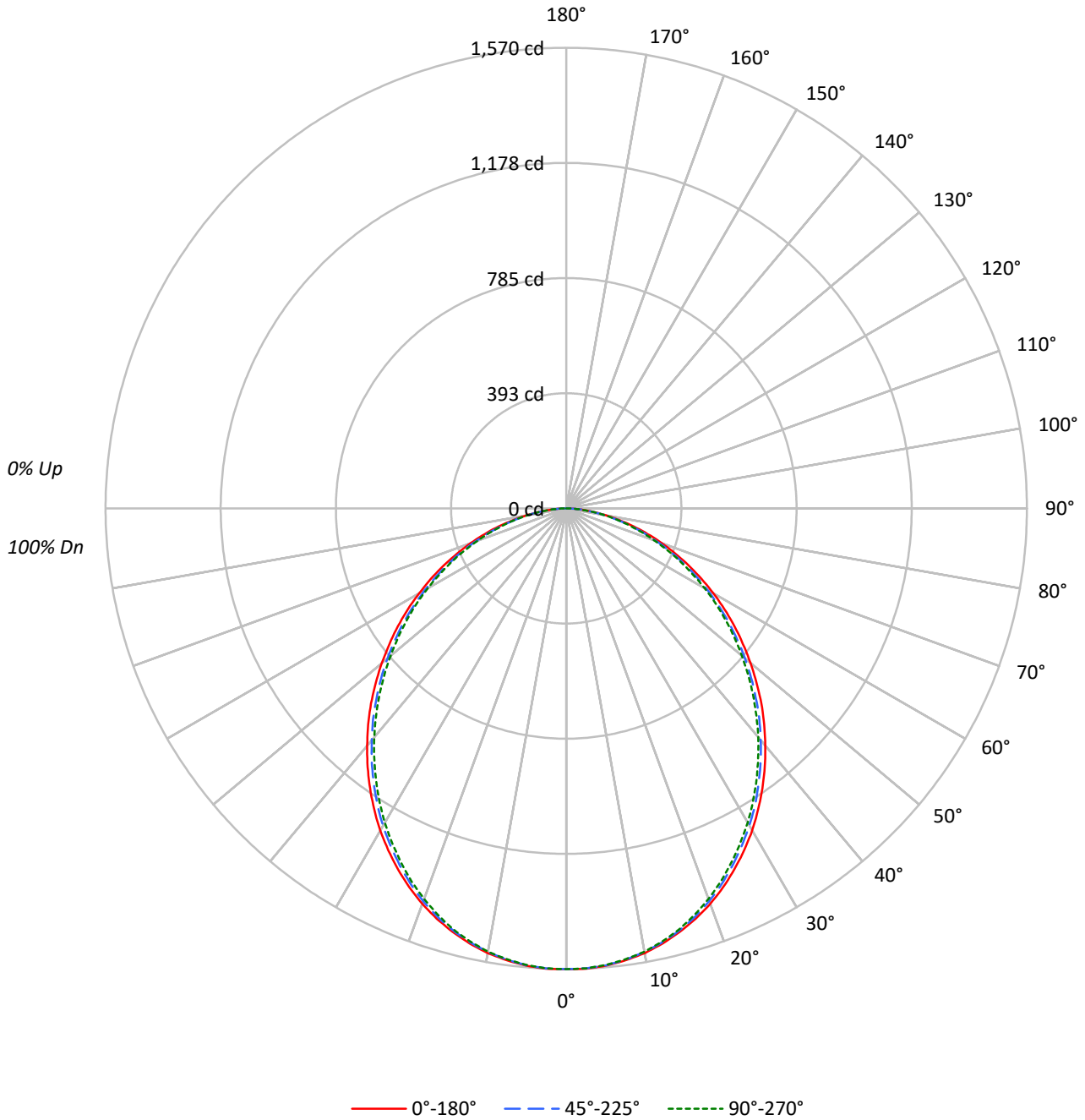
Lumens per Lamp: N/A
Luminaire Lumens: 3960.0 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2113	2113	2113
5°	2113	2111	2109
10°	2103	2098	2096
15°	2082	2075	2070
20°	2054	2040	2028
25°	2015	1993	1977
30°	1970	1940	1921
35°	1914	1877	1857
40°	1853	1810	1788
45°	1790	1739	1713
50°	1717	1664	1634
55°	1642	1584	1554
60°	1557	1495	1467
65°	1465	1397	1368
70°	1363	1290	1258
75°	1237	1168	1148
80°	1072	1014	1020
85°	885	872	815

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.3	3.7
10°-20°	419.8	10.6
20°-30°	618.7	15.6
30°-40°	716.2	18.1
40°-50°	707.1	17.9
50°-60°	605.6	15.3
60°-70°	437.9	11.1
70°-80°	241.4	6.1
80°-90°	65.0	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°	1186.8	30.0
0°-40°	1903.0	48.1
0°-60°	3215.7	81.2
0°-90°	3960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1565	1564	1563	1562	1562	149
15°	1495	1493	1490	1487	1486	421
25°	1357	1353	1342	1336	1332	625
35°	1165	1158	1143	1133	1130	729
45°	941	928	914	905	900	725
55°	700	686	675	666	663	625
65°	460	450	439	432	430	456
75°	238	230	225	224	221	253
85°	57	57	56	53	53	67
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.5	1570.5	1570.5	1570.5	1570.5
2.5°	1570.5	1570.5	1569.1	1569.1	1569.1
5°	1564.6	1563.8	1563.1	1561.6	1561.6
7.5°	1553.4	1553.4	1551.2	1551.2	1549.7
10°	1539.3	1537.8	1535.6	1535.6	1534.1
12.5°	1519.2	1517.7	1514.8	1514.0	1511.8
15°	1494.7	1493.2	1489.5	1487.3	1485.8
17.5°	1466.4	1464.2	1459.7	1456.0	1453.0
20°	1434.5	1431.5	1424.8	1420.3	1416.6
22.5°	1398.0	1395.0	1385.4	1380.2	1376.5
25°	1357.1	1353.4	1342.2	1335.6	1331.8
27.5°	1313.2	1308.8	1296.1	1288.7	1285.0
30°	1267.9	1261.2	1248.5	1239.6	1236.6
32.5°	1217.3	1210.6	1198.0	1187.6	1184.6
35°	1165.3	1157.8	1143.0	1133.3	1130.3
37.5°	1111.7	1102.1	1088.7	1079.0	1074.5
40°	1055.2	1045.5	1030.7	1020.3	1018.0
42.5°	998.7	986.8	974.1	963.7	959.3
45°	940.7	928.0	913.9	905.0	900.5
47.5°	879.7	867.8	855.2	844.8	841.0
50°	820.2	807.6	794.9	785.3	780.8
52.5°	759.2	746.6	734.7	726.5	722.1
55°	699.8	686.4	675.2	665.5	662.6
57.5°	639.5	627.6	615.0	606.1	603.8
60°	578.5	568.1	555.5	547.3	545.1
62.5°	519.8	509.4	497.5	489.3	485.6
65°	460.3	449.9	438.7	432.0	429.8
67.5°	402.3	392.6	383.0	376.3	374.8
70°	346.5	336.9	327.9	322.0	319.8
72.5°	290.8	284.1	275.1	271.4	269.2
75°	238.0	230.5	224.6	223.8	220.9
77.5°	186.7	185.9	176.2	174.8	174.8
80°	138.3	136.1	130.9	129.4	131.6
82.5°	95.2	93.7	90.7	90.0	89.2
85°	57.3	57.3	56.5	52.8	52.8
87.5°	26.0	25.3	24.5	25.3	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)