

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: P601175

Luminaire Tested: 24D3X-LP-50-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601175
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-L940
Description: 2x4 D3X-LP AT 5000LM 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

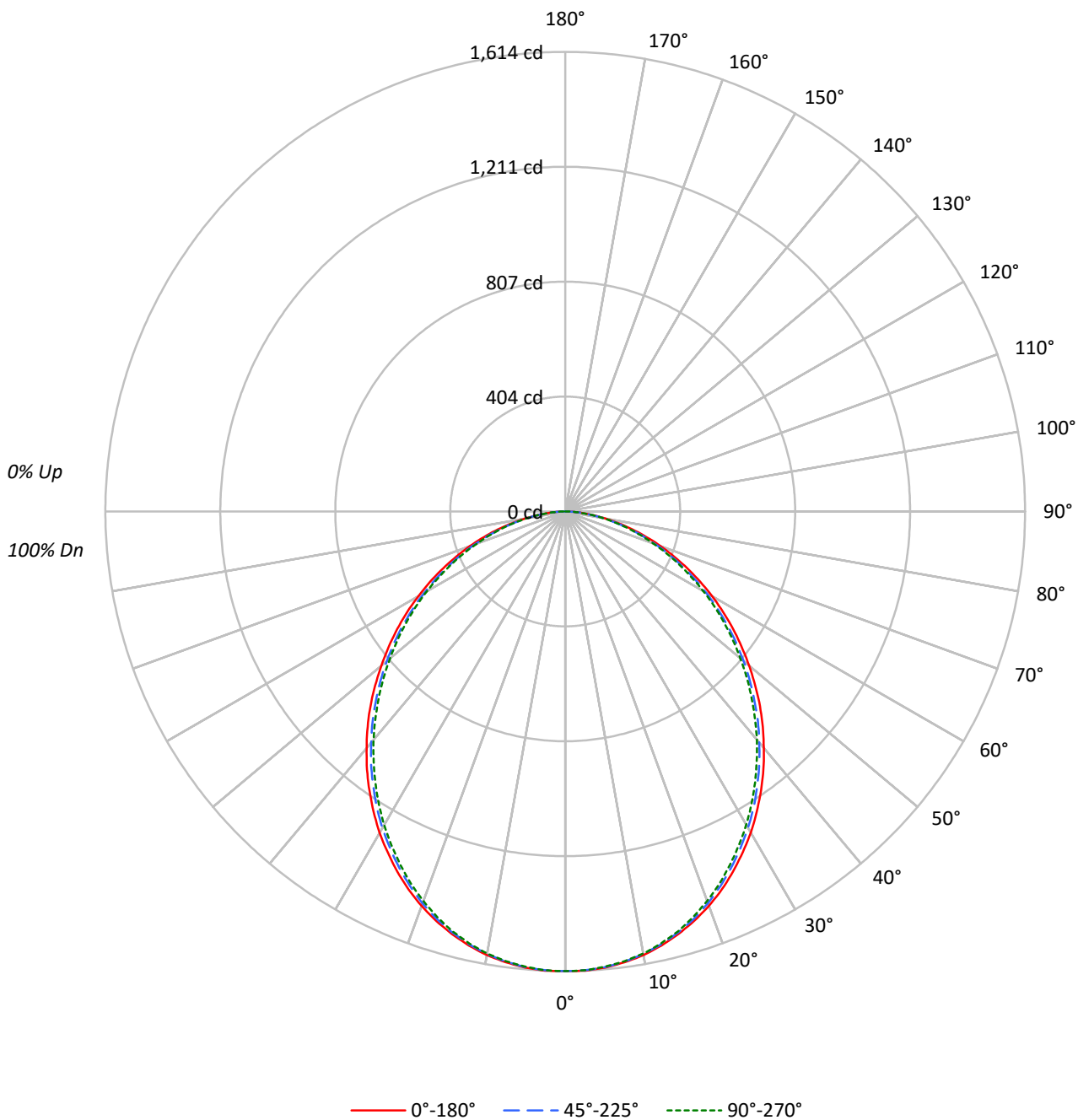
Lumens per Lamp: N/A
Luminaire Lumens: 4070.0 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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	31	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°	2172	2172	2172
5°	2172	2170	2168
10°	2162	2156	2154
15°	2140	2132	2127
20°	2111	2097	2085
25°	2071	2048	2032
30°	2025	1994	1975
35°	1967	1929	1908
40°	1905	1861	1838
45°	1840	1787	1761
50°	1765	1710	1680
55°	1687	1628	1597
60°	1600	1536	1507
65°	1506	1436	1407
70°	1401	1326	1293
75°	1272	1200	1180
80°	1102	1042	1048
85°	908	897	838

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1840 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.5	3.7
10°-20°	431.5	10.6
20°-30°	635.9	15.6
30°-40°	736.1	18.1
40°-50°	726.7	17.9
50°-60°	622.5	15.3
60°-70°	450.0	11.1
70°-80°	248.1	6.1
80°-90°	66.8	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°	1219.8	30.0
0°-40°	1955.9	48.1
0°-60°	3305.1	81.2
0°-90°	4070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1608	1607	1606	1605	1605	153
15°	1536	1535	1531	1529	1527	433
25°	1395	1391	1380	1373	1369	642
35°	1198	1190	1175	1165	1162	749
45°	967	954	939	930	926	745
55°	719	705	694	684	681	643
65°	473	462	451	444	442	469
75°	245	237	231	230	227	260
85°	59	59	58	54	54	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1614.2	1614.2	1614.2	1614.2	1614.2
2.5°	1614.2	1614.2	1612.6	1612.6	1612.6
5°	1608.0	1607.3	1606.5	1605.0	1605.0
7.5°	1596.6	1596.6	1594.3	1594.3	1592.8
10°	1582.1	1580.5	1578.2	1578.2	1576.7
12.5°	1561.4	1559.9	1556.8	1556.1	1553.8
15°	1536.2	1534.7	1530.9	1528.6	1527.0
17.5°	1507.2	1504.9	1500.3	1496.5	1493.4
20°	1474.3	1471.2	1464.4	1459.8	1456.0
22.5°	1436.9	1433.8	1423.9	1418.5	1414.7
25°	1394.8	1391.0	1379.5	1372.7	1368.8
27.5°	1349.7	1345.1	1332.1	1324.5	1320.7
30°	1303.1	1296.2	1283.2	1274.1	1271.0
32.5°	1251.1	1244.3	1231.3	1220.6	1217.5
35°	1197.6	1190.0	1174.7	1164.8	1161.7
37.5°	1142.6	1132.7	1118.9	1109.0	1104.4
40°	1084.5	1074.6	1059.3	1048.6	1046.3
42.5°	1026.4	1014.2	1001.2	990.5	985.9
45°	966.8	953.8	939.3	930.1	925.5
47.5°	904.1	891.9	878.9	868.2	864.4
50°	843.0	830.0	817.0	807.1	802.5
52.5°	780.3	767.3	755.1	746.7	742.1
55°	719.2	705.4	694.0	684.0	681.0
57.5°	657.3	645.1	632.1	622.9	620.6
60°	594.6	583.9	570.9	562.5	560.2
62.5°	534.2	523.5	511.3	502.9	499.1
65°	473.1	462.4	450.9	444.0	441.8
67.5°	413.5	403.5	393.6	386.7	385.2
70°	356.2	346.2	337.0	330.9	328.6
72.5°	298.8	292.0	282.8	279.0	276.7
75°	244.6	236.9	230.8	230.0	227.0
77.5°	191.8	191.1	181.1	179.6	179.6
80°	142.2	139.9	134.5	133.0	135.3
82.5°	97.8	96.3	93.2	92.5	91.7
85°	58.8	58.8	58.1	54.3	54.3
87.5°	26.7	26.0	25.2	26.0	28.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)