

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: P601246

Luminaire Tested: 14D3X-LP-50-L830

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601246
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-5)
Test Lab: INNOVATION CENTER
Issue Date: 10/6/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 14D3X-LP-50-L830
Description: 1x4 D3X-LP AT 5000lm 3000K 80CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

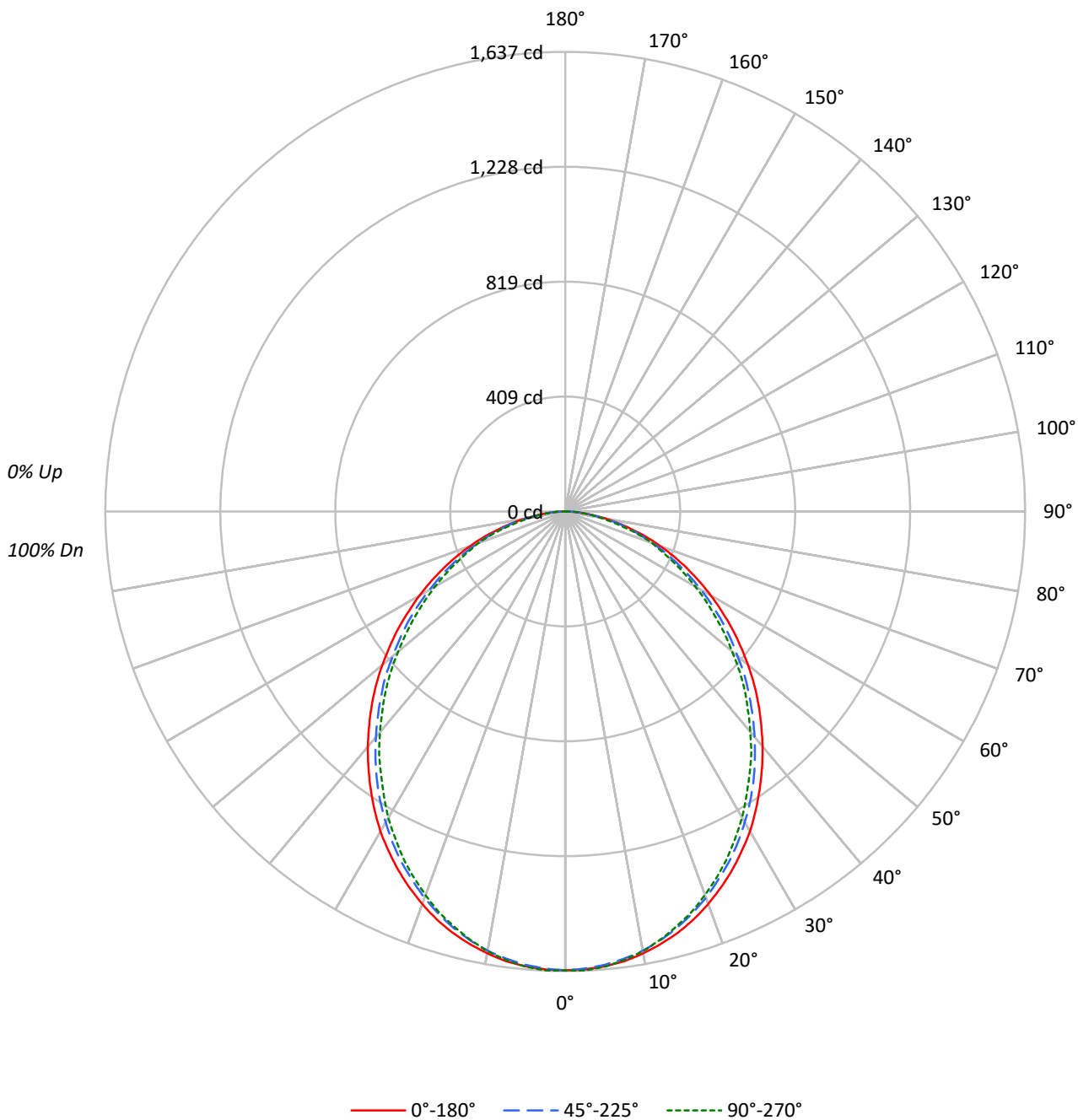
Lumens per Lamp: N/A
Luminaire Lumens: 4044.0 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 48.6
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	79	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	67	63	60
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	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°	4399	4399	4399
5°	4393	4378	4395
10°	4368	4342	4347
15°	4326	4278	4264
20°	4261	4194	4163
25°	4181	4092	4048
30°	4088	3972	3913
35°	3965	3840	3756
40°	3841	3684	3601
45°	3703	3525	3440
50°	3553	3352	3246
55°	3398	3193	3058
60°	3223	2999	2879
65°	3040	2811	2688
70°	2829	2619	2585
75°	2543	2421	2245
80°	2241	2094	1928
85°	1806	1806	1772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3703 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.1	3.8
10°-20°	433.6	10.7
20°-30°	635.9	15.7
30°-40°	732.4	18.1
40°-50°	718.7	17.8
50°-60°	611.5	15.1
60°-70°	442.1	10.9
70°-80°	247.0	6.1
80°-90°	68.8	1.7
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°	1223.5	30.3
0°-40°	1955.9	48.4
0°-60°	3286.1	81.3
0°-90°	4044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4044.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1626	1626	1621	1626	1627	154
15°	1553	1547	1536	1534	1530	437
25°	1408	1396	1378	1368	1363	648
35°	1207	1191	1169	1151	1143	755
45°	973	954	926	908	904	750
55°	724	705	681	662	652	647
65°	478	465	441	424	422	473
75°	245	241	233	219	216	262
85°	58	62	58	57	57	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.6	1634.6	1634.6	1634.6	1634.6
2.5°	1632.5	1632.5	1629.3	1635.7	1636.7
5°	1626.1	1626.1	1620.8	1626.1	1627.2
7.5°	1615.5	1613.3	1607.0	1611.2	1611.2
10°	1598.4	1596.3	1588.9	1589.9	1591.0
12.5°	1577.2	1574.0	1564.4	1563.4	1562.3
15°	1552.7	1547.4	1535.7	1533.6	1530.4
17.5°	1522.9	1515.5	1501.7	1498.5	1496.3
20°	1487.8	1478.3	1464.4	1457.0	1453.8
22.5°	1449.6	1438.9	1421.9	1414.5	1410.2
25°	1408.1	1396.4	1378.3	1367.7	1363.4
27.5°	1362.3	1349.6	1330.4	1316.6	1311.3
30°	1315.6	1299.6	1278.3	1264.5	1259.2
32.5°	1262.4	1245.4	1225.2	1208.1	1200.7
35°	1207.1	1191.1	1168.8	1150.7	1143.3
37.5°	1150.7	1135.8	1109.2	1093.3	1088.0
40°	1093.3	1076.3	1048.6	1029.5	1025.2
42.5°	1032.7	1017.8	986.9	971.0	963.5
45°	973.1	954.0	926.3	908.2	904.0
47.5°	912.5	891.2	866.8	846.5	841.2
50°	848.7	829.5	800.8	782.7	775.3
52.5°	785.9	768.9	740.2	720.0	714.7
55°	724.2	705.1	680.6	661.5	651.9
57.5°	659.4	644.5	619.0	600.9	593.4
60°	598.8	581.7	557.3	542.4	534.9
62.5°	537.1	520.1	499.8	483.9	477.5
65°	477.5	464.8	441.4	424.3	422.2
67.5°	418.0	407.3	387.1	370.1	371.2
70°	359.5	349.9	332.9	322.2	328.6
72.5°	304.2	298.8	279.7	272.3	275.4
75°	244.6	241.4	232.9	219.1	215.9
77.5°	194.6	196.7	187.2	170.2	165.9
80°	144.6	150.0	135.1	129.7	124.4
82.5°	100.0	107.4	94.7	90.4	88.3
85°	58.5	61.7	58.5	57.4	57.4
87.5°	24.5	28.7	28.7	29.8	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)