

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: P601249

Luminaire Tested: 14D3X-LP-50-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601249
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-L930
Description: 1x4 D3X-LP AT 5000lm 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

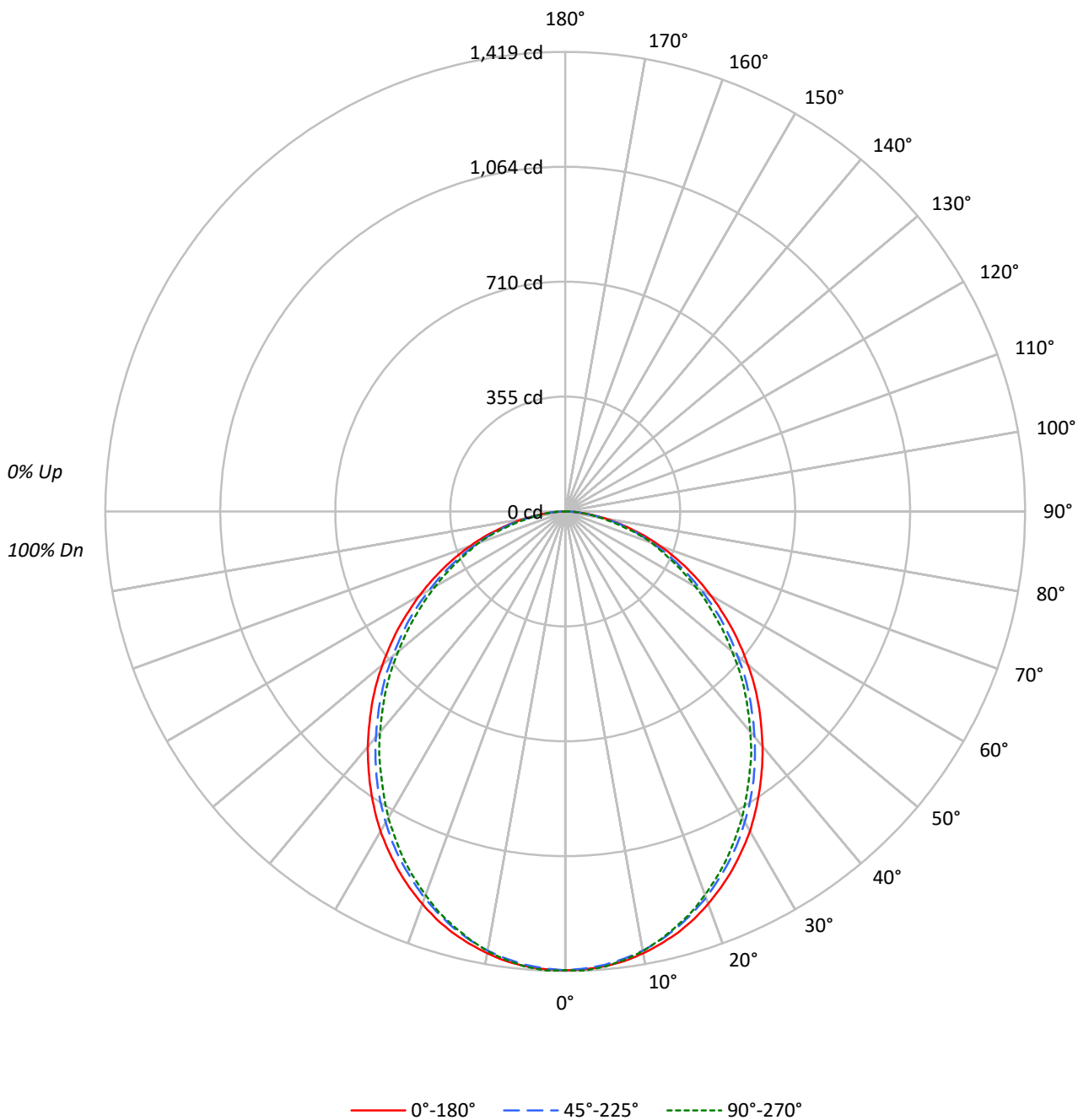
Lumens per Lamp: N/A
Luminaire Lumens: 3505.0 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3812	3812	3812
5°	3807	3795	3810
10°	3786	3763	3768
15°	3749	3708	3695
20°	3693	3635	3608
25°	3624	3547	3509
30°	3543	3443	3391
35°	3437	3328	3255
40°	3329	3193	3121
45°	3210	3055	2982
50°	3080	2906	2813
55°	2945	2768	2651
60°	2793	2599	2495
65°	2635	2436	2330
70°	2452	2270	2241
75°	2204	2099	1945
80°	1943	1815	1671
85°	1565	1565	1538

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3210 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	3.8
10°-20°	375.8	10.7
20°-30°	551.1	15.7
30°-40°	634.8	18.1
40°-50°	622.9	17.8
50°-60°	530.0	15.1
60°-70°	383.2	10.9
70°-80°	214.1	6.1
80°-90°	59.6	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°	1060.5	30.3
0°-40°	1695.3	48.4
0°-60°	2848.1	81.3
0°-90°	3505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3505.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1417	1417	1417	1417	1417	
5°	1409	1409	1405	1409	1410	134
15°	1346	1341	1331	1329	1326	379
25°	1220	1210	1195	1185	1182	562
35°	1046	1032	1013	997	991	654
45°	843	827	803	787	784	650
55°	628	611	590	573	565	561
65°	414	403	382	368	366	410
75°	212	209	202	190	187	227
85°	51	54	51	50	50	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1416.7	1416.7	1416.7	1416.7	1416.7
2.5°	1414.9	1414.9	1412.1	1417.7	1418.6
5°	1409.4	1409.4	1404.8	1409.4	1410.3
7.5°	1400.1	1398.3	1392.8	1396.5	1396.5
10°	1385.4	1383.6	1377.1	1378.0	1378.9
12.5°	1367.0	1364.2	1355.9	1355.0	1354.1
15°	1345.8	1341.2	1331.0	1329.2	1326.4
17.5°	1320.0	1313.5	1301.5	1298.8	1296.9
20°	1289.5	1281.2	1269.3	1262.8	1260.0
22.5°	1256.4	1247.1	1232.4	1225.9	1222.2
25°	1220.4	1210.3	1194.6	1185.4	1181.7
27.5°	1180.8	1169.7	1153.1	1141.1	1136.5
30°	1140.2	1126.4	1108.0	1096.0	1091.4
32.5°	1094.1	1079.4	1061.9	1047.1	1040.7
35°	1046.2	1032.4	1013.0	997.3	990.9
37.5°	997.3	984.4	961.4	947.6	943.0
40°	947.6	932.8	908.9	892.3	888.6
42.5°	895.0	882.1	855.4	841.6	835.1
45°	843.4	826.8	802.8	787.2	783.5
47.5°	790.9	772.4	751.2	733.7	729.1
50°	735.6	719.0	694.1	678.4	672.0
52.5°	681.2	666.4	641.5	624.0	619.4
55°	627.7	611.1	589.9	573.3	565.0
57.5°	571.5	558.6	536.5	520.8	514.3
60°	518.9	504.2	483.0	470.1	463.6
62.5°	465.5	450.7	433.2	419.4	413.9
65°	413.9	402.8	382.5	367.8	365.9
67.5°	362.3	353.0	335.5	320.8	321.7
70°	311.6	303.3	288.5	279.3	284.8
72.5°	263.6	259.0	242.4	236.0	238.7
75°	212.0	209.2	201.9	189.9	187.1
77.5°	168.7	170.5	162.2	147.5	143.8
80°	125.4	130.0	117.1	112.5	107.8
82.5°	86.6	93.1	82.0	78.3	76.5
85°	50.7	53.5	50.7	49.8	49.8
87.5°	21.2	24.9	24.9	25.8	26.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)