

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: P601250

Luminaire Tested: 14D3X-LP-50-L935

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601250
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-L935
Description: 1x4 D3X-LP AT 5000lm 3500K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

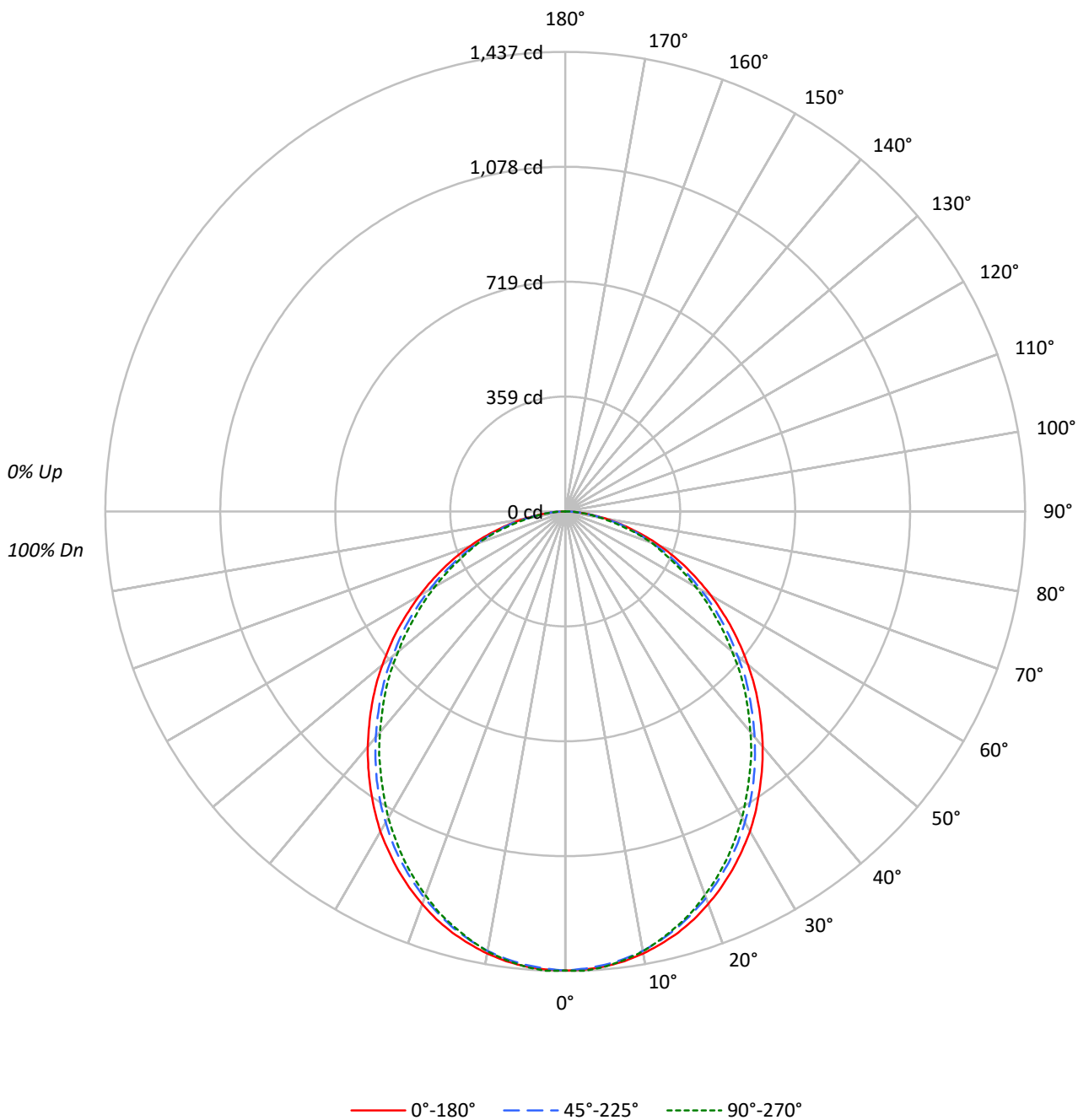
Lumens per Lamp: N/A
Luminaire Lumens: 3551.0 lumens
Efficiency: N/A
Efficacy: 73.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	3862	3862	3862
5°	3857	3844	3860
10°	3835	3812	3817
15°	3798	3757	3744
20°	3741	3682	3656
25°	3671	3594	3555
30°	3590	3488	3436
35°	3482	3371	3298
40°	3372	3235	3162
45°	3252	3095	3021
50°	3120	2944	2850
55°	2984	2804	2686
60°	2830	2633	2528
65°	2670	2467	2360
70°	2483	2300	2271
75°	2233	2126	1971
80°	1968	1838	1694
85°	1587	1587	1556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3252 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	3.8
10°-20°	380.7	10.7
20°-30°	558.3	15.7
30°-40°	643.1	18.1
40°-50°	631.1	17.8
50°-60°	536.9	15.1
60°-70°	388.2	10.9
70°-80°	216.9	6.1
80°-90°	60.4	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°	1074.4	30.3
0°-40°	1717.5	48.4
0°-60°	2885.5	81.3
0°-90°	3551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3551.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1435	1435	1435	1435	1435	
5°	1428	1428	1423	1428	1429	136
15°	1363	1359	1348	1347	1344	384
25°	1236	1226	1210	1201	1197	569
35°	1060	1046	1026	1010	1004	663
45°	854	838	813	798	794	659
55°	636	619	598	581	572	568
65°	419	408	388	373	371	415
75°	215	212	204	192	190	230
85°	51	54	51	50	50	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1435.3	1435.3	1435.3	1435.3	1435.3
2.5°	1433.5	1433.5	1430.7	1436.3	1437.2
5°	1427.9	1427.9	1423.2	1427.9	1428.8
7.5°	1418.5	1416.7	1411.1	1414.8	1414.8
10°	1403.6	1401.7	1395.2	1396.1	1397.0
12.5°	1384.9	1382.1	1373.7	1372.8	1371.8
15°	1363.4	1358.8	1348.5	1346.6	1343.8
17.5°	1337.3	1330.7	1318.6	1315.8	1313.9
20°	1306.5	1298.1	1285.9	1279.4	1276.6
22.5°	1272.8	1263.5	1248.6	1242.0	1238.3
25°	1236.4	1226.1	1210.3	1200.9	1197.2
27.5°	1196.3	1185.1	1168.3	1156.1	1151.4
30°	1155.2	1141.2	1122.5	1110.4	1105.7
32.5°	1108.5	1093.5	1075.8	1060.9	1054.3
35°	1059.9	1045.9	1026.3	1010.4	1003.9
37.5°	1010.4	997.4	974.0	960.0	955.3
40°	960.0	945.1	920.8	904.0	900.2
42.5°	906.8	893.7	866.6	852.6	846.1
45°	854.5	837.7	813.4	797.5	793.8
47.5°	801.2	782.6	761.1	743.3	738.7
50°	745.2	728.4	703.2	687.3	680.8
52.5°	690.1	675.2	650.0	632.2	627.5
55°	636.0	619.1	597.7	580.9	572.5
57.5°	579.0	565.9	543.5	527.6	521.1
60°	525.8	510.8	489.3	476.3	469.7
62.5°	471.6	456.7	438.9	424.9	419.3
65°	419.3	408.1	387.5	372.6	370.7
67.5°	367.0	357.7	339.9	325.0	325.9
70°	315.6	307.2	292.3	283.0	288.6
72.5°	267.1	262.4	245.6	239.1	241.9
75°	214.8	212.0	204.5	192.4	189.6
77.5°	170.9	172.8	164.4	149.4	145.7
80°	127.0	131.7	118.6	113.9	109.3
82.5°	87.8	94.3	83.1	79.4	77.5
85°	51.4	54.2	51.4	50.4	50.4
87.5°	21.5	25.2	25.2	26.1	27.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)