

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: P601251

Luminaire Tested: 14D3X-LP-50-L940

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601251
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-L940
Description: 1x4 D3X-LP AT 5000lm 4000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

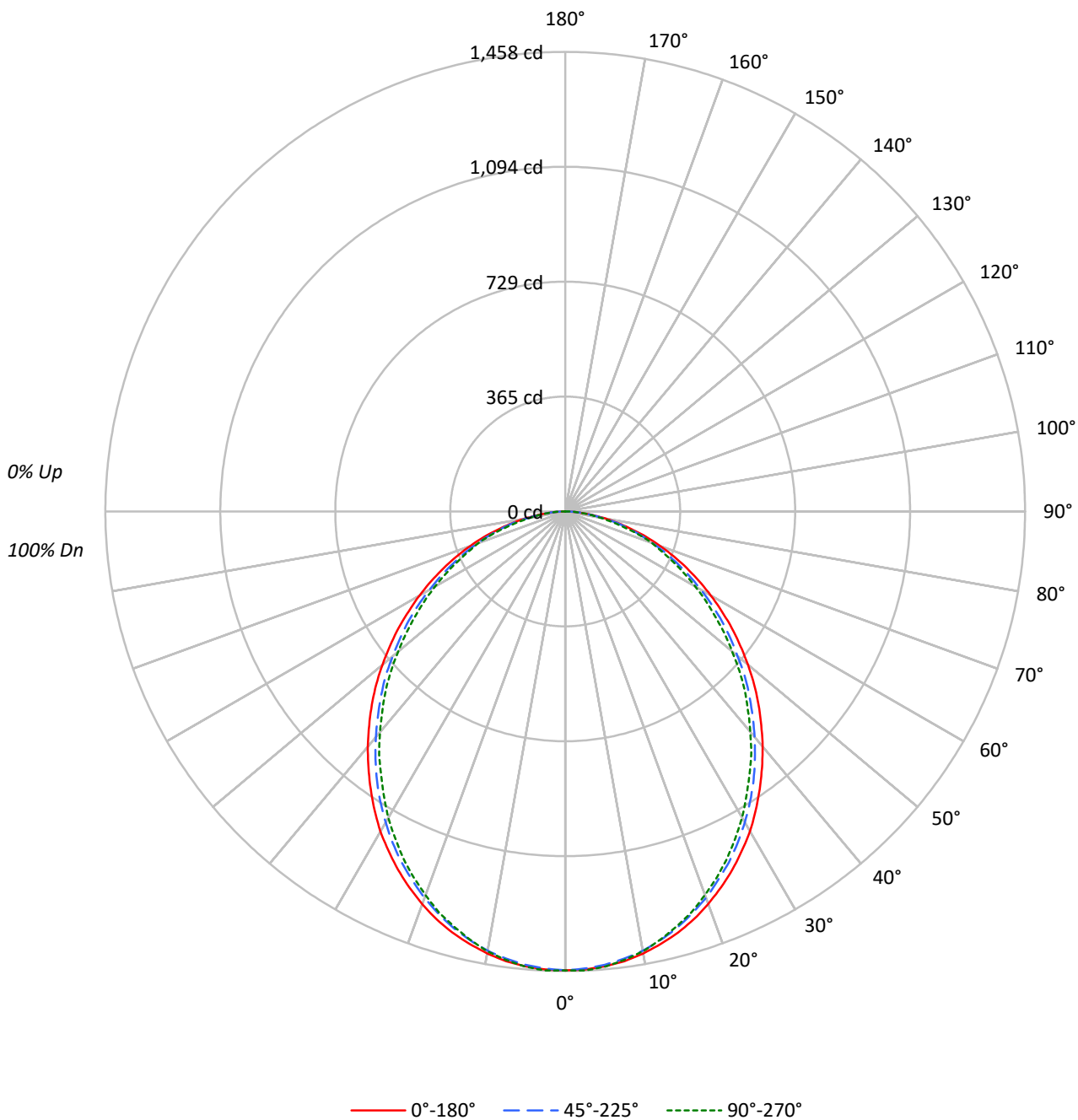
Lumens per Lamp: N/A
Luminaire Lumens: 3602.0 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.16 / 1.27
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
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°	3918	3918	3918
5°	3913	3900	3915
10°	3890	3867	3872
15°	3853	3811	3797
20°	3795	3735	3708
25°	3724	3645	3606
30°	3641	3538	3485
35°	3532	3420	3345
40°	3421	3281	3208
45°	3298	3140	3064
50°	3165	2986	2891
55°	3027	2844	2724
60°	2870	2672	2565
65°	2708	2503	2395
70°	2519	2333	2303
75°	2266	2157	1999
80°	1996	1864	1717
85°	1609	1609	1581

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3298 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	3.8
10°-20°	386.2	10.7
20°-30°	566.4	15.7
30°-40°	652.4	18.1
40°-50°	640.1	17.8
50°-60°	544.6	15.1
60°-70°	393.8	10.9
70°-80°	220.0	6.1
80°-90°	61.3	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°	1089.8	30.3
0°-40°	1742.2	48.4
0°-60°	2926.9	81.3
0°-90°	3602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3602.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1448	1448	1444	1448	1449	137
15°	1383	1378	1368	1366	1363	390
25°	1254	1244	1228	1218	1214	577
35°	1075	1061	1041	1025	1018	672
45°	867	850	825	809	805	668
55°	645	628	606	589	581	576
65°	425	414	393	378	376	421
75°	218	215	208	195	192	234
85°	52	55	52	51	51	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1455.9	1455.9	1455.9	1455.9	1455.9
2.5°	1454.1	1454.1	1451.2	1456.9	1457.8
5°	1448.4	1448.4	1443.6	1448.4	1449.3
7.5°	1438.9	1437.0	1431.3	1435.1	1435.1
10°	1423.7	1421.8	1415.2	1416.2	1417.1
12.5°	1404.8	1402.0	1393.4	1392.5	1391.5
15°	1383.0	1378.3	1367.9	1366.0	1363.1
17.5°	1356.5	1349.9	1337.5	1334.7	1332.8
20°	1325.2	1316.7	1304.4	1297.8	1294.9
22.5°	1291.1	1281.6	1266.5	1259.9	1256.1
25°	1254.2	1243.8	1227.7	1218.2	1214.4
27.5°	1213.4	1202.1	1185.0	1172.7	1168.0
30°	1171.8	1157.6	1138.6	1126.3	1121.6
32.5°	1124.4	1109.2	1091.2	1076.1	1069.5
35°	1075.1	1060.9	1041.0	1024.9	1018.3
37.5°	1024.9	1011.7	988.0	973.8	969.1
40°	973.8	958.6	934.0	917.0	913.2
42.5°	919.8	906.5	879.1	864.9	858.2
45°	866.7	849.7	825.1	809.0	805.2
47.5°	812.8	793.8	772.0	754.0	749.3
50°	755.9	738.9	713.3	697.2	690.6
52.5°	700.0	684.9	659.3	641.3	636.6
55°	645.1	628.0	606.2	589.2	580.7
57.5°	587.3	574.0	551.3	535.2	528.6
60°	533.3	518.2	496.4	483.1	476.5
62.5°	478.4	463.2	445.2	431.0	425.3
65°	425.3	414.0	393.1	378.0	376.1
67.5°	372.3	362.8	344.8	329.6	330.6
70°	320.2	311.7	296.5	287.0	292.7
72.5°	270.9	266.2	249.1	242.5	245.3
75°	217.9	215.0	207.5	195.1	192.3
77.5°	173.3	175.2	166.7	151.6	147.8
80°	128.8	133.6	120.3	115.6	110.8
82.5°	89.0	95.7	84.3	80.5	78.6
85°	52.1	54.9	52.1	51.2	51.2
87.5°	21.8	25.6	25.6	26.5	27.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)