

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: P601149

Luminaire Tested: 24D3X-LP-30-L930

Issue Date: 10/6/2023

Test Information

Test Method: LM-79-2019
Report Number: P601149
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-30-L930
Description: 2x4 D3X-LP AT 3000LM 3000K 90CRI
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

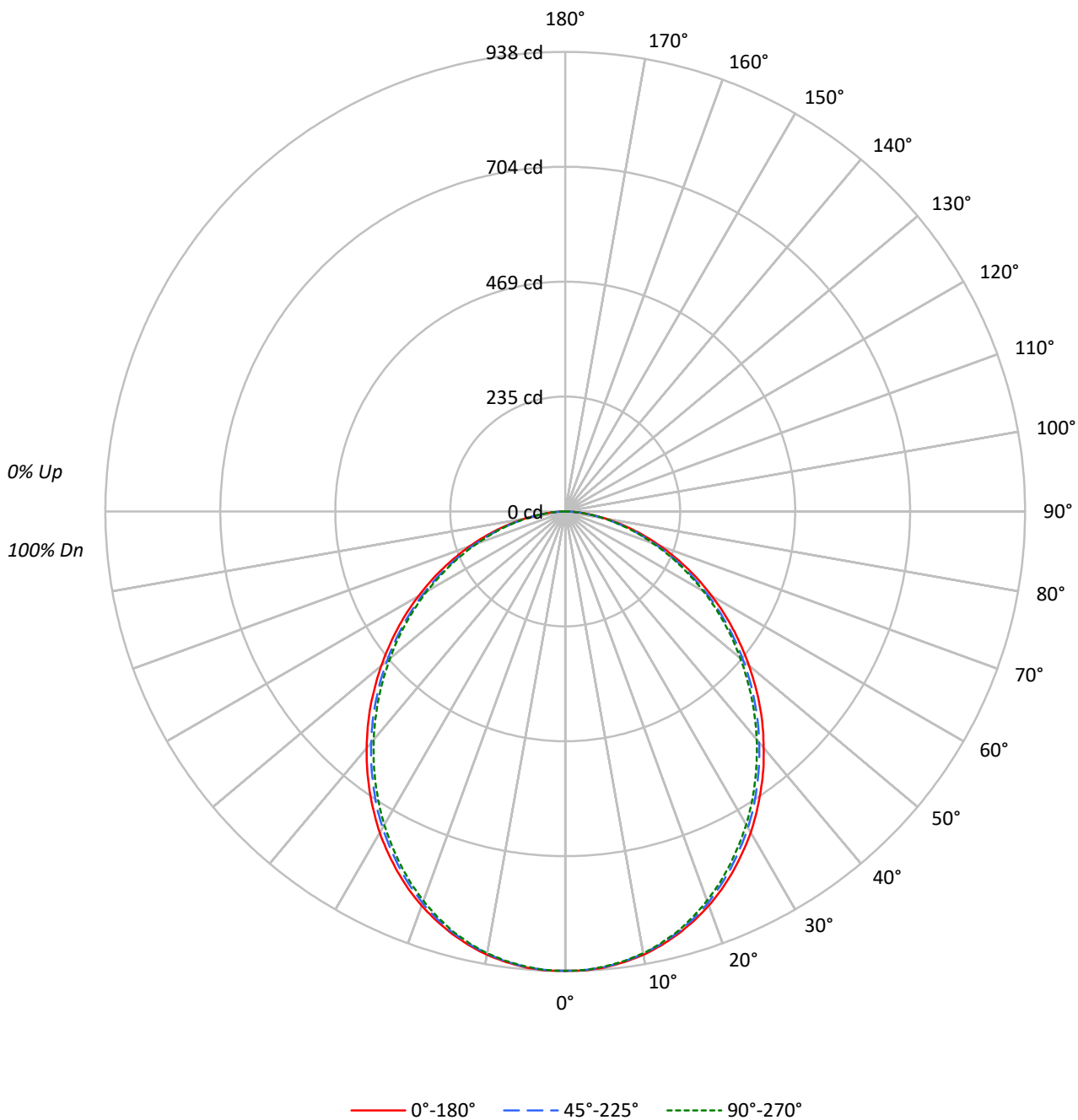
Lumens per Lamp: N/A
Luminaire Lumens: 2364.0 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 21.3
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	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	30	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°	1262	1262	1262
5°	1261	1260	1259
10°	1255	1252	1251
15°	1243	1239	1236
20°	1226	1218	1211
25°	1203	1190	1180
30°	1176	1158	1147
35°	1143	1121	1108
40°	1106	1081	1067
45°	1069	1038	1023
50°	1025	993	976
55°	980	946	928
60°	929	892	876
65°	875	834	817
70°	814	770	751
75°	739	697	685
80°	640	605	609
85°	528	520	486

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 1069 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.6	3.7
10°-20°	250.6	10.6
20°-30°	369.3	15.6
30°-40°	427.6	18.1
40°-50°	422.1	17.9
50°-60°	361.5	15.3
60°-70°	261.4	11.1
70°-80°	144.1	6.1
80°-90°	38.8	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°	708.5	30.0
0°-40°	1136.0	48.1
0°-60°	1919.7	81.2
0°-90°	2364.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2364.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	938	938	938	938	938	
5°	934	934	933	932	932	89
15°	892	891	889	888	887	252
25°	810	808	801	797	795	373
35°	696	691	682	676	675	435
45°	562	554	546	540	538	433
55°	418	410	403	397	396	373
65°	275	269	262	258	257	272
75°	142	138	134	134	132	151
85°	34	34	34	32	32	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	937.6	937.6	937.6	937.6	937.6
2.5°	937.6	937.6	936.7	936.7	936.7
5°	934.0	933.6	933.1	932.2	932.2
7.5°	927.4	927.4	926.0	926.0	925.1
10°	918.9	918.0	916.7	916.7	915.8
12.5°	906.9	906.0	904.3	903.8	902.5
15°	892.3	891.4	889.2	887.8	887.0
17.5°	875.4	874.1	871.4	869.2	867.4
20°	856.3	854.5	850.6	847.9	845.7
22.5°	834.6	832.8	827.0	823.9	821.7
25°	810.2	807.9	801.3	797.3	795.1
27.5°	784.0	781.3	773.8	769.3	767.1
30°	756.9	752.9	745.3	740.0	738.2
32.5°	726.7	722.7	715.2	708.9	707.2
35°	695.6	691.2	682.3	676.5	674.8
37.5°	663.7	657.9	649.9	644.1	641.5
40°	629.9	624.2	615.3	609.1	607.7
42.5°	596.2	589.1	581.5	575.3	572.7
45°	561.6	554.0	545.6	540.3	537.6
47.5°	525.2	518.1	510.5	504.3	502.1
50°	489.6	482.1	474.6	468.8	466.1
52.5°	453.2	445.7	438.6	433.7	431.0
55°	417.7	409.7	403.1	397.3	395.5
57.5°	381.8	374.7	367.1	361.8	360.5
60°	345.4	339.2	331.6	326.7	325.4
62.5°	310.3	304.1	297.0	292.1	289.9
65°	274.8	268.6	261.9	257.9	256.6
67.5°	240.2	234.4	228.6	224.6	223.7
70°	206.9	201.1	195.8	192.2	190.9
72.5°	173.6	169.6	164.3	162.0	160.7
75°	142.1	137.6	134.1	133.6	131.8
77.5°	111.4	111.0	105.2	104.3	104.3
80°	82.6	81.2	78.1	77.2	78.6
82.5°	56.8	55.9	54.2	53.7	53.3
85°	34.2	34.2	33.7	31.5	31.5
87.5°	15.5	15.1	14.6	15.1	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)