

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: P995580

Luminaire Tested: 24D3X-LP-WD-30-L840.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P995580
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/21/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 24D3X-LP-WD-30-L840.ies
Description: 2x4 D3X-LP AT 3000LM 4000K 80CRI
Light Source: -
Ballast/Driver: -

Summary

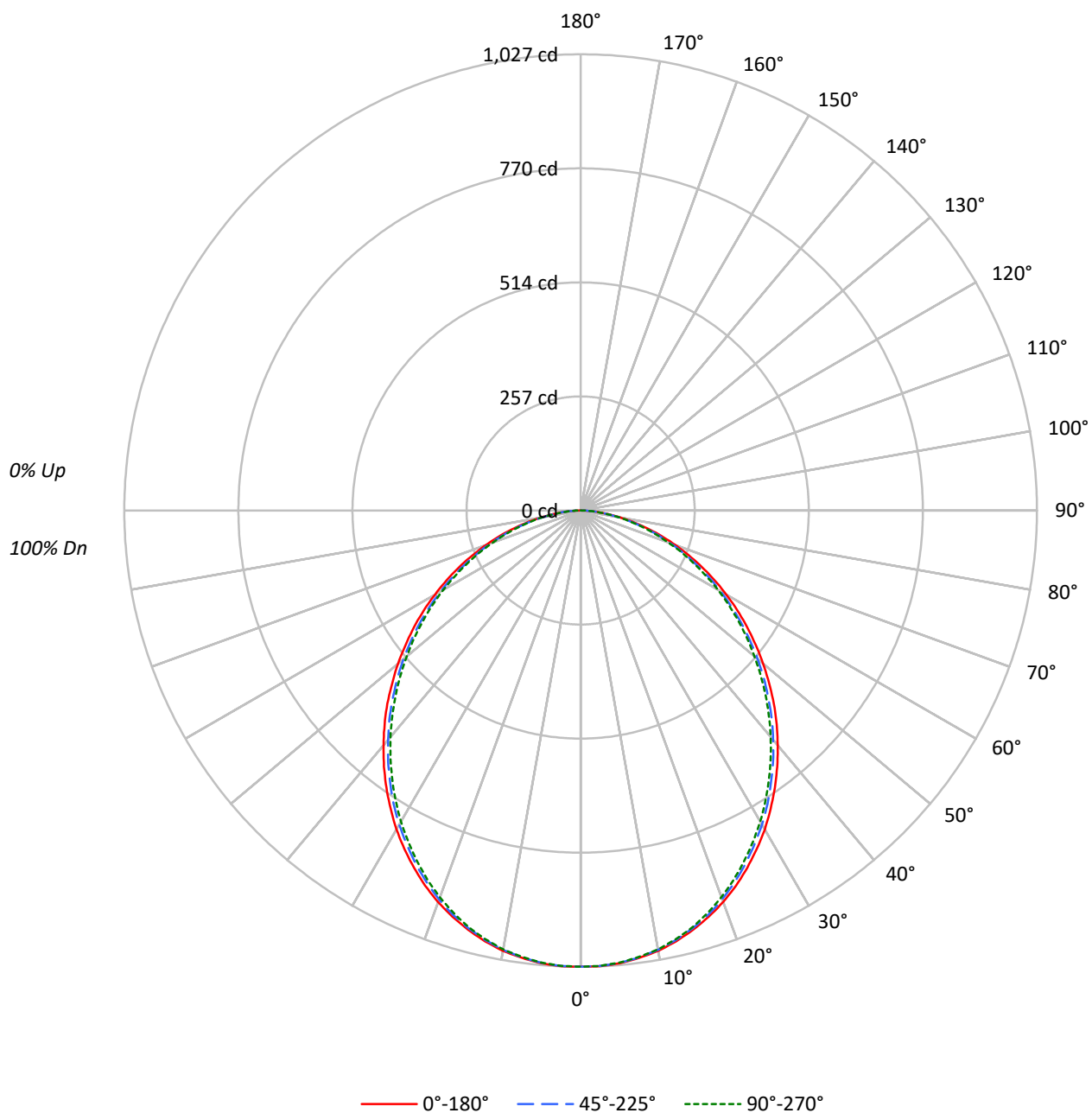
Lumens per Lamp: N/A
Luminaire Lumens: 2589.3 lumens
Efficiency: N/A
Efficacy: 121.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P995580

CATALOG NUMBER: 24D3X-LP-WD-30-L840.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995580

CATALOG NUMBER: 24D3X-LP-WD-30-L840.ies

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	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	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	31	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°	1382	1382	1382
5°	1382	1380	1379
10°	1375	1372	1370
15°	1361	1357	1353
20°	1343	1334	1326
25°	1317	1303	1293
30°	1288	1268	1256
35°	1251	1227	1214
40°	1212	1184	1169
45°	1170	1137	1120
50°	1123	1088	1069
55°	1073	1036	1016
60°	1018	977	959
65°	958	913	895
70°	891	843	823
75°	809	763	751
80°	700	663	667
85°	577	571	533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1170 cd/sqm

TEST NUMBER: P995580

CATALOG NUMBER: 24D3X-LP-WD-30-L840.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.0	3.7
10°-20°	274.5	10.6
20°-30°	404.5	15.6
30°-40°	468.3	18.1
40°-50°	462.3	17.9
50°-60°	396.0	15.3
60°-70°	286.3	11.1
70°-80°	157.8	6.1
80°-90°	42.5	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°	776.0	30.0
0°-40°	1244.3	48.1
0°-60°	2102.7	81.2
0°-90°	2589.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2589.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1023	1022	1022	1021	1021	97
15°	977	976	974	972	972	276
25°	887	885	878	873	871	409
35°	762	757	747	741	739	476
45°	615	607	598	592	589	474
55°	458	449	442	435	433	409
65°	301	294	287	282	281	298
75°	156	151	147	146	144	165
85°	37	37	37	34	34	44
90°	0	0	0	0	0	

TEST NUMBER: P995580

CATALOG NUMBER: 24D3X-LP-WD-30-L840.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.9	1026.9	1026.9	1026.9	1026.9
2.5°	1026.9	1026.9	1025.9	1025.9	1025.9
5°	1023.0	1022.5	1022.1	1021.1	1021.1
7.5°	1015.7	1015.7	1014.3	1014.3	1013.3
10°	1006.5	1005.5	1004.1	1004.1	1003.1
12.5°	993.4	992.4	990.5	990.0	988.5
15°	977.3	976.3	973.9	972.5	971.5
17.5°	958.8	957.4	954.5	952.0	950.1
20°	937.9	936.0	931.6	928.7	926.3
22.5°	914.1	912.2	905.8	902.4	900.0
25°	887.4	884.9	877.6	873.3	870.8
27.5°	858.7	855.8	847.5	842.6	840.2
30°	829.0	824.6	816.4	810.5	808.6
32.5°	796.0	791.6	783.3	776.5	774.6
35°	761.9	757.1	747.3	741.0	739.1
37.5°	726.9	720.6	711.8	705.5	702.6
40°	690.0	683.6	673.9	667.1	665.6
42.5°	653.0	645.2	637.0	630.2	627.2
45°	615.1	606.8	597.6	591.7	588.8
47.5°	575.2	567.4	559.2	552.4	549.9
50°	536.3	528.0	519.8	513.5	510.5
52.5°	496.4	488.2	480.4	475.0	472.1
55°	457.5	448.8	441.5	435.2	433.2
57.5°	418.2	410.4	402.1	396.3	394.8
60°	378.3	371.5	363.2	357.9	356.4
62.5°	339.9	333.1	325.3	319.9	317.5
65°	301.0	294.2	286.9	282.5	281.0
67.5°	263.1	256.7	250.4	246.0	245.1
70°	226.6	220.3	214.4	210.5	209.1
72.5°	190.1	185.7	179.9	177.5	176.0
75°	155.6	150.7	146.8	146.4	144.4
77.5°	122.0	121.6	115.2	114.3	114.3
80°	90.4	89.0	85.6	84.6	86.1
82.5°	62.2	61.3	59.3	58.8	58.3
85°	37.4	37.4	37.0	34.5	34.5
87.5°	17.0	16.5	16.0	16.5	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)