

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: P#

Luminaire Tested: 24D3X-LP-30-L950.ies

Issue Date: 12/21/2023

Test Information

Test Method: LM-79-2019
Report Number: P#
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-30-L950.ies
Description: 2x4 D3X-LP AT 3000LM 5000K 90CRI
Light Source: -
Ballast/Driver: -

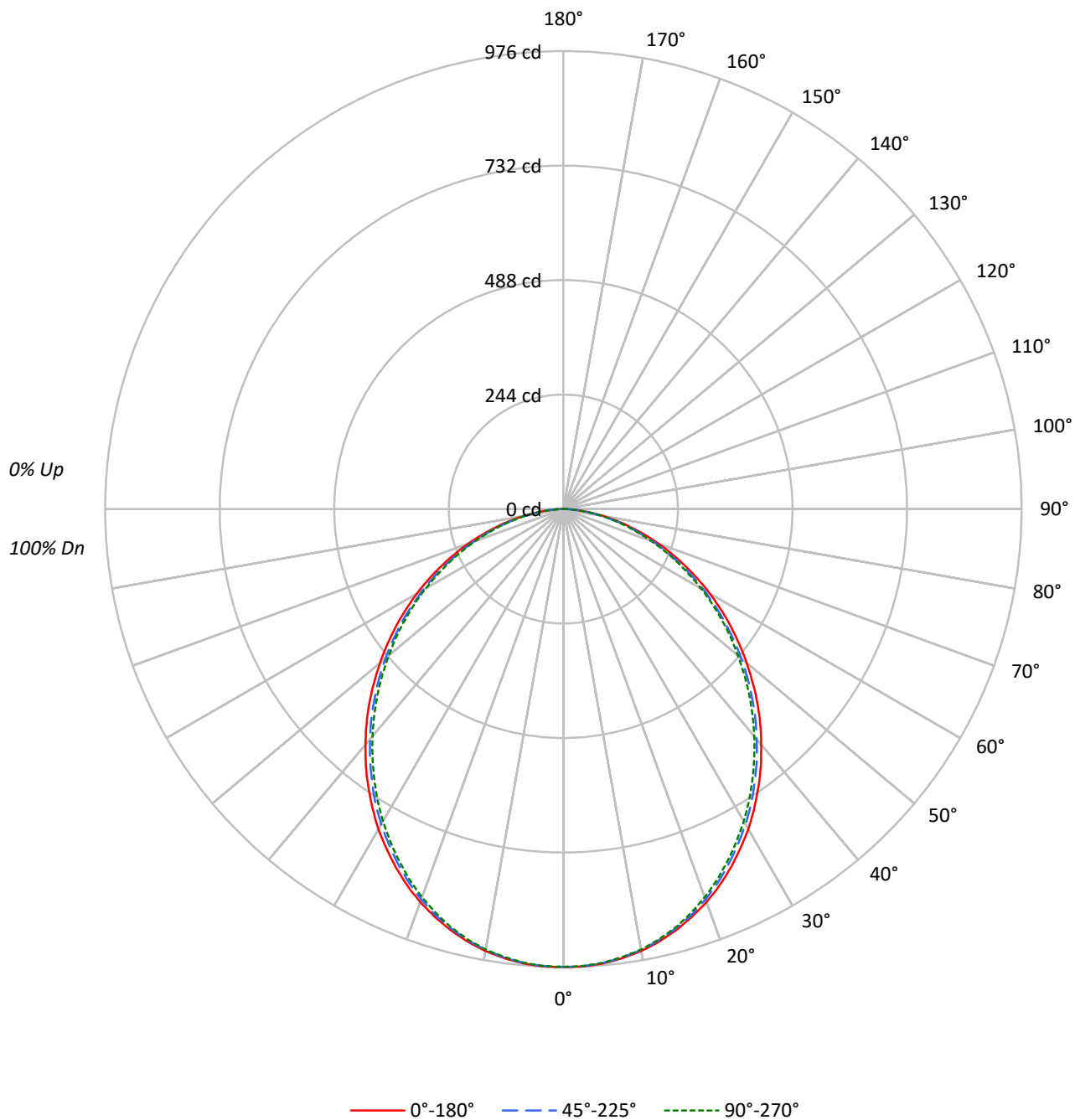
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2460.7 lumens
Efficiency: N/A
Efficacy: 115.5 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: P#
CATALOG NUMBER: 24D3X-LP-30-L950.ies

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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	100	97	106	102	99	95	98	95	92		94	92	89		91
2	100	92	85	79	97	90	84	78	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	43		54	47	42		52
7	66	53	44	38	64	52	44	38	51	43	38		49	42	38		48
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44
9	58	44	36	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1313	1313	1313
5°	1313	1312	1311
10°	1307	1304	1302
15°	1294	1289	1286
20°	1276	1268	1260
25°	1252	1238	1229
30°	1224	1205	1194
35°	1189	1167	1154
40°	1152	1125	1111
45°	1112	1081	1065
50°	1067	1034	1016
55°	1020	984	966
60°	967	929	911
65°	911	868	850
70°	847	802	782
75°	769	725	713
80°	666	630	634
85°	550	542	506

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1112 cd/sqm

TEST NUMBER: P#

CATALOG NUMBER: 24D3X-LP-30-L950.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.2	3.7
10°-20°	260.9	10.6
20°-30°	384.4	15.6
30°-40°	445.0	18.1
40°-50°	439.4	17.9
50°-60°	376.3	15.3
60°-70°	272.1	11.1
70°-80°	150.0	6.1
80°-90°	40.4	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°	737.5	30.0
0°-40°	1182.5	48.1
0°-60°	1998.2	81.2
0°-90°	2460.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2460.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	976	976	976	976	976	
5°	972	972	971	970	970	92
15°	929	928	926	924	923	262
25°	843	841	834	830	828	388
35°	724	720	710	704	702	453
45°	584	577	568	562	560	450
55°	435	426	420	414	412	389
65°	286	280	273	268	267	284
75°	148	143	140	139	137	157
85°	36	36	35	33	33	42
90°	0	0	0	0	0	

TEST NUMBER: P#

CATALOG NUMBER: 24D3X-LP-30-L950.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	975.9	975.9	975.9	975.9	975.9
2.5°	975.9	975.9	975.0	975.0	975.0
5°	972.2	971.8	971.3	970.4	970.4
7.5°	965.3	965.3	963.9	963.9	963.0
10°	956.5	955.6	954.2	954.2	953.3
12.5°	944.0	943.1	941.3	940.8	939.4
15°	928.8	927.9	925.5	924.2	923.2
17.5°	911.2	909.8	907.1	904.8	902.9
20°	891.4	889.5	885.3	882.6	880.3
22.5°	868.7	866.9	860.9	857.6	855.3
25°	843.3	841.0	834.1	829.9	827.6
27.5°	816.0	813.3	805.4	800.8	798.5
30°	787.8	783.7	775.8	770.3	768.4
32.5°	756.4	752.3	744.4	737.9	736.1
35°	724.1	719.5	710.2	704.2	702.4
37.5°	690.8	684.8	676.5	670.5	667.7
40°	655.7	649.7	640.4	634.0	632.6
42.5°	620.6	613.2	605.3	598.9	596.1
45°	584.5	576.7	567.9	562.4	559.6
47.5°	546.6	539.2	531.4	524.9	522.6
50°	509.7	501.8	494.0	488.0	485.2
52.5°	471.8	463.9	456.5	451.5	448.7
55°	434.8	426.5	419.6	413.6	411.7
57.5°	397.4	390.0	382.1	376.6	375.2
60°	359.5	353.0	345.2	340.1	338.7
62.5°	323.0	316.5	309.1	304.0	301.7
65°	286.0	279.6	272.6	268.5	267.1
67.5°	250.0	244.0	238.0	233.8	232.9
70°	215.3	209.3	203.8	200.1	198.7
72.5°	180.7	176.5	171.0	168.7	167.3
75°	147.9	143.2	139.5	139.1	137.2
77.5°	116.0	115.5	109.5	108.6	108.6
80°	85.9	84.6	81.3	80.4	81.8
82.5°	59.1	58.2	56.4	55.9	55.4
85°	35.6	35.6	35.1	32.8	32.8
87.5°	16.2	15.7	15.2	15.7	17.1
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.0	13.6	12.4	13.9	14.2	11.7	13.3	12.1	13.7	14.0
	3H	13.7	15.1	14.1	15.5	15.8	13.4	14.8	13.7	15.1	15.5
	4H	14.3	15.7	14.7	16.0	16.4	14.0	15.3	14.4	15.7	16.0
	6H	14.8	16.0	15.2	16.4	16.8	14.4	15.7	14.8	16.0	16.4
	8H	14.9	16.1	15.3	16.5	16.9	14.5	15.7	15.0	16.1	16.5
	12H	15.0	16.1	15.4	16.5	16.9	14.6	15.8	15.0	16.1	16.6
4H	2H	12.6	13.9	13.0	14.3	14.6	12.3	13.7	12.7	14.0	14.4
	3H	14.5	15.6	14.9	16.0	16.4	14.2	15.3	14.6	15.7	16.1
	4H	15.2	16.2	15.6	16.6	17.1	14.9	15.9	15.3	16.3	16.8
	6H	15.8	16.7	16.2	17.1	17.6	15.5	16.4	15.9	16.8	17.3
	8H	15.9	16.8	16.4	17.2	17.7	15.6	16.5	16.1	16.9	17.4
	12H	16.1	16.8	16.6	17.3	17.8	15.8	16.5	16.2	17.0	17.5
8H	4H	15.5	16.3	15.9	16.7	17.2	15.2	16.0	15.7	16.5	16.9
	6H	16.1	16.8	16.6	17.3	17.8	15.9	16.6	16.4	17.0	17.5
	8H	16.4	17.0	16.9	17.5	18.0	16.1	16.7	16.6	17.2	17.7
	12H	16.6	17.1	17.1	17.6	18.2	16.3	16.8	16.8	17.3	17.9
12H	4H	15.5	16.2	16.0	16.7	17.2	15.2	16.0	15.7	16.5	16.9
	6H	16.2	16.8	16.7	17.3	17.8	15.9	16.5	16.4	17.0	17.5
	8H	16.5	17.0	17.0	17.5	18.1	16.2	16.7	16.7	17.2	17.8

(END OF REPORT)