Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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-90-L950.ies

Issue Date: 12/21/2023

Test Information

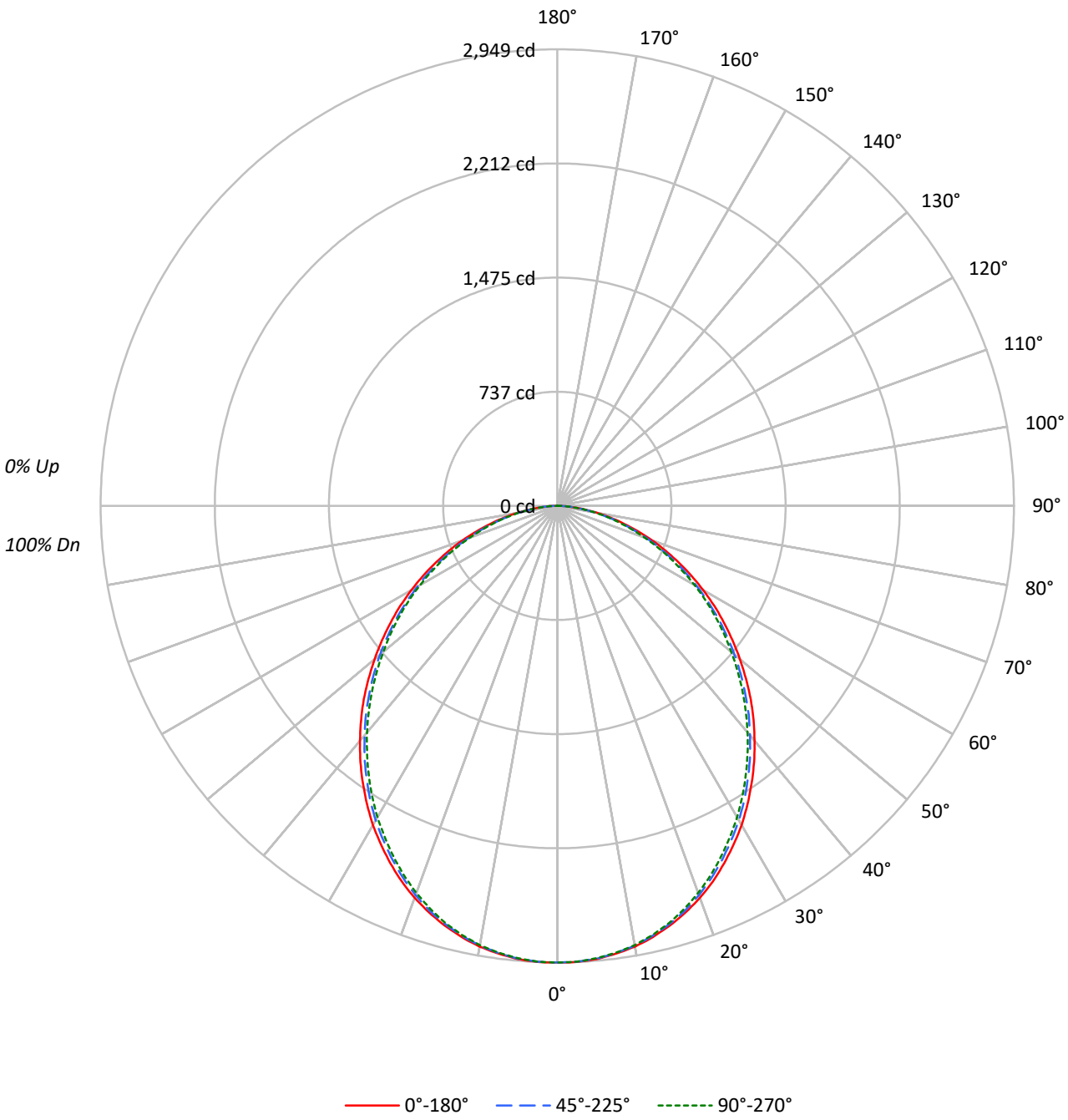
Test Method:	LM-79-2019
Report Number:	P#
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2305-008-4)
Test Lab:	INNOVATION CENTER
Issue Date:	12/21/2023
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	24D3X-LP-90-L950.ies
Description:	2x4 D3X-LP AT 9000LM 5000K 90CRI
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	7436.5 lumens
Efficiency:	N/A
Efficacy:	106.7 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):	69.7
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-90-L950.ies

Luminous Intensity Polar Plot



TEST NUMBER: P#
CATALOG NUMBER: 24D3X-LP-90-L950.ies

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	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°	3968	3968	3968
5°	3968	3965	3961
10°	3949	3940	3936
15°	3910	3896	3886
20°	3857	3831	3809
25°	3783	3742	3713
30°	3699	3643	3608
35°	3594	3526	3486
40°	3481	3400	3358
45°	3361	3266	3218
50°	3224	3125	3069
55°	3083	2974	2919
60°	2923	2807	2754
65°	2752	2623	2570
70°	2560	2423	2362
75°	2323	2192	2156
80°	2012	1905	1915
85°	1660	1638	1530

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 45°
Luminance: 3361 cd/sqm

TEST NUMBER: P#
CATALOG NUMBER: 24D3X-LP-90-L950.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.6	3.7
10°-20°	788.4	10.6
20°-30°	1161.8	15.6
30°-40°	1345.0	18.1
40°-50°	1327.8	17.9
50°-60°	1137.3	15.3
60°-70°	822.3	11.1
70°-80°	453.3	6.1
80°-90°	122.1	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°	2228.7	30.0
0°-40°	3573.7	48.1
0°-60°	6038.9	81.2
0°-90°	7436.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7436.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2949	2949	2949	2949	2949	
5°	2938	2937	2935	2933	2933	279
15°	2807	2804	2797	2793	2790	791
25°	2548	2542	2521	2508	2501	1173
35°	2188	2174	2146	2128	2123	1368
45°	1766	1743	1716	1700	1691	1361
55°	1314	1289	1268	1250	1244	1175
65°	864	845	824	811	807	857
75°	447	433	422	420	415	474
85°	108	108	106	99	99	126
90°	0	0	0	0	0	

TEST NUMBER: P#
CATALOG NUMBER: 24D3X-LP-90-L950.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	*2949.3*	*2949.3*	*2949.3*	*2949.3*	*2949.3*
2.5°	*2949.3*	2949.3	2946.5	2946.5	2946.5
5°	*2938.2*	2936.8	2935.4	2932.6	2932.6
7.5°	*2917.2*	2917.2	2913.0	2913.0	2910.2
10°	*2890.7*	2887.9	2883.7	2883.7	2880.9
12.5°	*2853.0*	2850.2	2844.6	2843.2	2839.0
15°	*2806.9*	2804.1	2797.1	2792.9	2790.1
17.5°	*2753.8*	2749.6	2741.2	2734.3	2728.7
20°	*2693.8*	2688.2	2675.6	2667.2	2660.3
22.5°	*2625.3*	2619.8	2601.6	2591.8	2584.8
25°	*2548.5*	2541.6	2520.6	2508.0	2501.1
27.5°	*2466.1*	2457.8	2434.0	2420.1	2413.1
30°	*2381.0*	2368.4	2344.7	2327.9	2322.3
32.5°	*2286.0*	2273.4	2249.7	2230.1	2224.6
35°	*2188.3*	2174.3	2146.4	2128.2	2122.6
37.5°	*2087.7*	2069.6	2044.4	2026.3	2017.9
40°	*1981.6*	1963.4	1935.5	1915.9	1911.8
42.5°	*1875.4*	1853.1	1829.4	1809.8	1801.4
45°	*1766.5*	1742.8	1716.2	1699.5	1691.1
47.5°	*1652.0*	1629.7	1605.9	1586.4	1579.4
50°	*1540.3*	1516.6	1492.8	1474.7	1466.3
52.5°	*1425.8*	1402.0	1379.7	1364.3	1356.0
55°	*1314.1*	1288.9	1268.0	1249.8	1244.2
57.5°	*1201.0*	1178.6	1154.9	1138.1	1133.9
60°	*1086.4*	1066.9	1043.2	1027.8	1023.6
62.5°	*976.1*	956.6	934.2	918.9	911.9
65°	*864.4*	844.9	823.9	811.3	807.2
67.5°	*755.5*	737.3	719.2	706.6	703.8
70°	*650.7*	632.6	615.8	604.7	600.5
72.5°	*546.0*	533.4	516.7	509.7	505.5
75°	*446.9*	432.9	421.7	420.3	414.7
77.5°	*350.5*	349.1	331.0	328.2	328.2
80°	*259.7*	255.6	245.8	243.0	247.2
82.5°	*178.7*	176.0	170.4	169.0	167.6
85°	*107.5*	107.5	106.1	99.1	99.1
87.5°	*48.9*	47.5	46.1	47.5	51.7
90°	*0.0*	0.0	0.0	0.0	0.0

TEST NUMBER: P#
CATALOG NUMBER: 24D3X-LP-90-L950.ies

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	15.9	17.5	16.2	17.8	18.1	15.6	17.2	15.9	17.5	17.8
	3H	17.5	19.0	17.9	19.3	19.7	17.2	18.7	17.6	19.0	19.3
	4H	18.2	19.5	18.6	19.9	20.2	17.8	19.2	18.2	19.5	19.9
	6H	18.6	19.9	19.0	20.2	20.6	18.2	19.5	18.7	19.9	20.3
	8H	18.7	19.9	19.2	20.3	20.7	18.4	19.6	18.8	20.0	20.4
	12H	18.8	20.0	19.2	20.3	20.8	18.5	19.6	18.9	20.0	20.4
4H	2H	16.4	17.8	16.8	18.1	18.5	16.2	17.5	16.6	17.9	18.3
	3H	18.3	19.4	18.7	19.8	20.2	18.0	19.2	18.4	19.6	20.0
	4H	19.0	20.1	19.5	20.5	20.9	18.8	19.8	19.2	20.2	20.6
	6H	19.6	20.5	20.1	20.9	21.4	19.3	20.2	19.8	20.6	21.1
	8H	19.8	20.6	20.3	21.1	21.5	19.5	20.3	19.9	20.8	21.2
	12H	19.9	20.7	20.4	21.1	21.6	19.6	20.3	20.1	20.8	21.3
8H	4H	19.3	20.1	19.8	20.6	21.0	19.0	19.9	19.5	20.3	20.8
	6H	20.0	20.7	20.5	21.2	21.6	19.7	20.4	20.2	20.9	21.4
	8H	20.2	20.8	20.7	21.4	21.8	19.9	20.6	20.5	21.1	21.6
	12H	20.4	21.0	20.9	21.5	22.0	20.1	20.7	20.6	21.2	21.7
12H	4H	19.3	20.1	19.8	20.5	21.0	19.1	19.8	19.6	20.3	20.8
	6H	20.0	20.7	20.5	21.1	21.7	19.8	20.4	20.3	20.8	21.4
	8H	20.3	20.9	20.8	21.4	21.9	20.0	20.6	20.5	21.1	21.6

(END OF REPORT)