

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-L850.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-L850.ies
Description: 2x4 D3X-LP AT 3000LM 5000K 80CRI
Light Source: -
Ballast/Driver: -

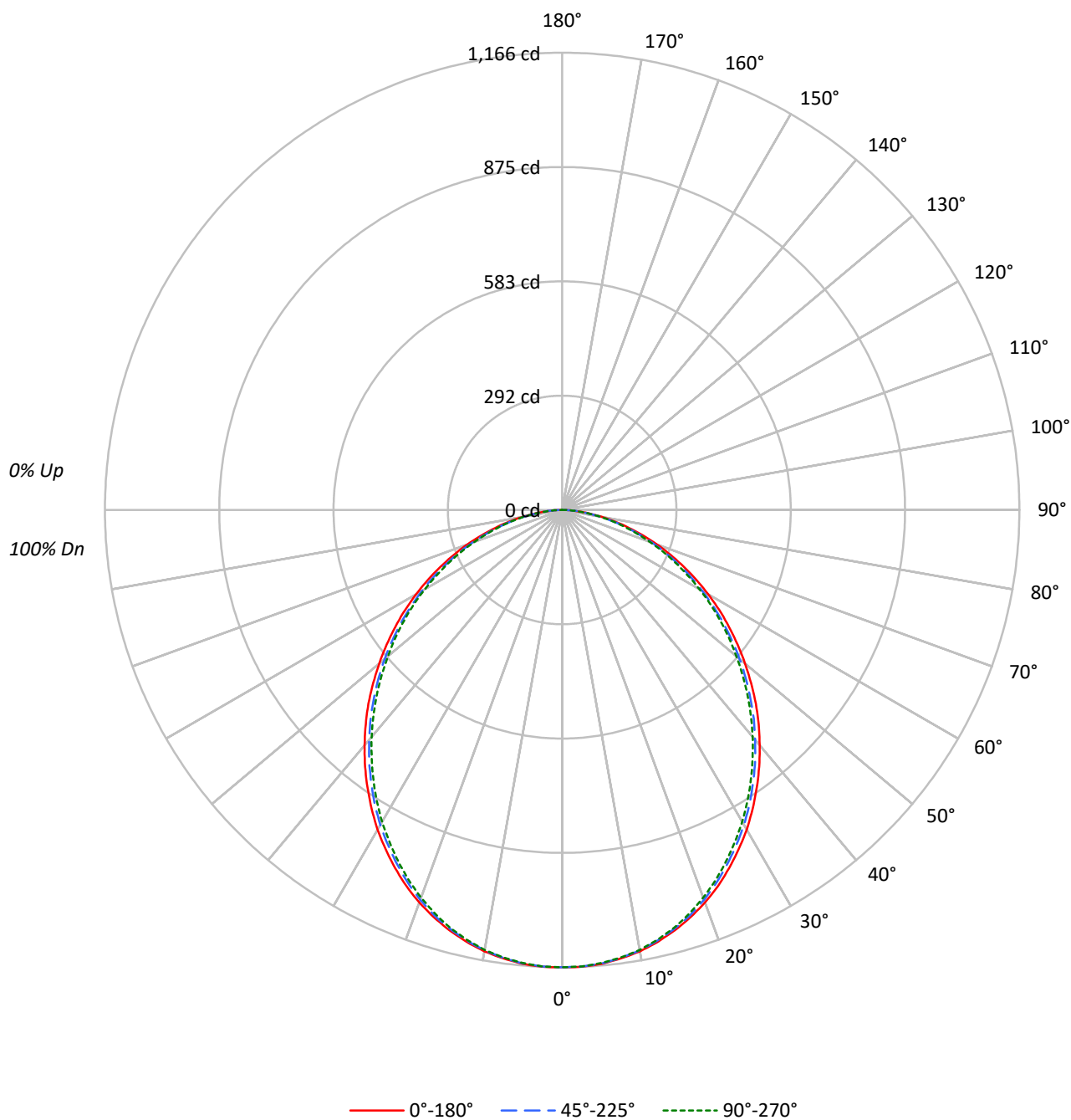
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.3 lumens
Efficiency: N/A
Efficacy: 138.0 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					0
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
1	109	105	100	97	106	102	99	95		98	95	92		94	92	89		91	89	87
2	100	92	85	79	97	90	84	78		86	81	77		83	79	75		80	76	73
3	91	81	73	67	89	79	72	66		76	70	65		74	68	64		71	66	63
4	84	72	63	57	81	71	63	56		68	61	56		66	60	55		64	58	54
5	77	64	56	49	75	63	55	49		61	54	48		59	53	48		57	52	47
6	71	58	49	43	69	57	49	43		55	48	43		54	47	42		52	46	42
7	66	53	44	38	64	52	44	38		51	43	38		49	42	38		48	42	37
8	62	48	40	34	60	48	40	34		46	39	34		45	39	34		44	38	33
9	58	44	36	31	56	44	36	31		43	36	31		42	35	30		41	35	30
10	54	41	33	28	53	41	33	28		40	33	28		39	32	28		38	32	28

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1569	1569	1569
5°	1569	1568	1566
10°	1561	1558	1556
15°	1546	1540	1537
20°	1525	1515	1506
25°	1496	1480	1468
30°	1463	1440	1427
35°	1421	1394	1379
40°	1376	1344	1328
45°	1329	1291	1272
50°	1275	1235	1213
55°	1219	1176	1154
60°	1156	1110	1089
65°	1088	1037	1016
70°	1012	958	934
75°	919	867	853
80°	796	753	757
85°	656	648	605

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1329 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.7
10°-20°	311.7	10.6
20°-30°	459.4	15.6
30°-40°	531.8	18.1
40°-50°	525.0	17.9
50°-60°	449.7	15.3
60°-70°	325.1	11.1
70°-80°	179.2	6.1
80°-90°	48.3	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°	881.2	30.0
0°-40°	1413.0	48.1
0°-60°	2387.7	81.2
0°-90°	2940.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1166	1166	1166	1166	1166	
5°	1162	1161	1161	1160	1160	110
15°	1110	1109	1106	1104	1103	313
25°	1008	1005	997	992	989	464
35°	865	860	849	842	839	541
45°	698	689	679	672	669	538
55°	520	510	501	494	492	464
65°	342	334	326	321	319	339
75°	177	171	167	166	164	187
85°	42	42	42	39	39	50
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1166.1	1166.1	1166.1	1166.1	1166.1
2.5°	1166.1	1166.1	1165.0	1165.0	1165.0
5°	1161.7	1161.2	1160.6	1159.5	1159.5
7.5°	1153.4	1153.4	1151.8	1151.8	1150.7
10°	1142.9	1141.8	1140.2	1140.2	1139.1
12.5°	1128.0	1126.9	1124.7	1124.2	1122.5
15°	1109.8	1108.7	1105.9	1104.3	1103.2
17.5°	1088.8	1087.2	1083.9	1081.1	1078.9
20°	1065.1	1062.9	1057.9	1054.6	1051.8
22.5°	1038.0	1035.8	1028.6	1024.8	1022.0
25°	1007.7	1004.9	996.6	991.6	988.9
27.5°	975.1	971.8	962.4	956.9	954.1
30°	941.4	936.4	927.0	920.4	918.2
32.5°	903.9	898.9	889.5	881.8	879.6
35°	865.2	859.7	848.6	841.5	839.3
37.5°	825.5	818.3	808.3	801.2	797.8
40°	783.5	776.3	765.3	757.5	755.9
42.5°	741.5	732.7	723.3	715.6	712.3
45°	698.5	689.1	678.6	672.0	668.6
47.5°	653.2	644.4	635.0	627.2	624.5
50°	609.0	599.6	590.2	583.1	579.7
52.5°	563.7	554.4	545.5	539.4	536.1
55°	519.6	509.6	501.3	494.2	492.0
57.5°	474.8	466.0	456.6	450.0	448.3
60°	429.6	421.8	412.5	406.4	404.7
62.5°	385.9	378.2	369.4	363.3	360.5
65°	341.8	334.0	325.8	320.8	319.1
67.5°	298.7	291.5	284.4	279.4	278.3
70°	257.3	250.1	243.5	239.1	237.4
72.5°	215.9	210.9	204.3	201.5	199.9
75°	176.7	171.2	166.7	166.2	164.0
77.5°	138.6	138.0	130.9	129.8	129.8
80°	102.7	101.0	97.2	96.1	97.7
82.5°	70.7	69.6	67.4	66.8	66.3
85°	42.5	42.5	42.0	39.2	39.2
87.5°	19.3	18.8	18.2	18.8	20.4
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	12.6	14.2	13.0	14.5	14.9	12.4	14.0	12.7	14.3	14.6
	3H	14.3	15.8	14.7	16.1	16.4	14.0	15.4	14.4	15.8	16.1
	4H	14.9	16.3	15.3	16.6	17.0	14.6	15.9	15.0	16.3	16.7
	6H	15.4	16.6	15.8	17.0	17.4	15.0	16.3	15.4	16.6	17.0
	8H	15.5	16.7	15.9	17.1	17.5	15.2	16.4	15.6	16.7	17.1
	12H	15.6	16.7	16.0	17.1	17.6	15.2	16.4	15.7	16.8	17.2
4H	2H	13.2	14.5	13.6	14.9	15.3	13.0	14.3	13.4	14.7	15.0
	3H	15.1	16.2	15.5	16.6	17.0	14.8	15.9	15.2	16.3	16.7
	4H	15.8	16.8	16.2	17.3	17.7	15.5	16.6	16.0	17.0	17.4
	6H	16.4	17.3	16.8	17.7	18.2	16.1	17.0	16.5	17.4	17.9
	8H	16.6	17.4	17.0	17.8	18.3	16.3	17.1	16.7	17.5	18.0
	12H	16.7	17.4	17.2	17.9	18.4	16.4	17.1	16.9	17.6	18.1
8H	4H	16.1	16.9	16.5	17.4	17.8	15.8	16.7	16.3	17.1	17.6
	6H	16.8	17.4	17.2	17.9	18.4	16.5	17.2	17.0	17.7	18.1
	8H	17.0	17.6	17.5	18.1	18.6	16.7	17.3	17.2	17.8	18.3
	12H	17.2	17.7	17.7	18.2	18.8	16.9	17.5	17.4	17.9	18.5
12H	4H	16.1	16.8	16.6	17.3	17.8	15.8	16.6	16.3	17.1	17.5
	6H	16.8	17.4	17.3	17.9	18.4	16.5	17.2	17.1	17.6	18.2
	8H	17.1	17.6	17.6	18.1	18.7	16.8	17.4	17.3	17.9	18.4



(END OF REPORT)