

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: P601147

Luminaire Tested: 24D3X-LP-30-L835

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601147  
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-L835  
Description: 2x4 D3X-LP AT 3000LM 3500K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

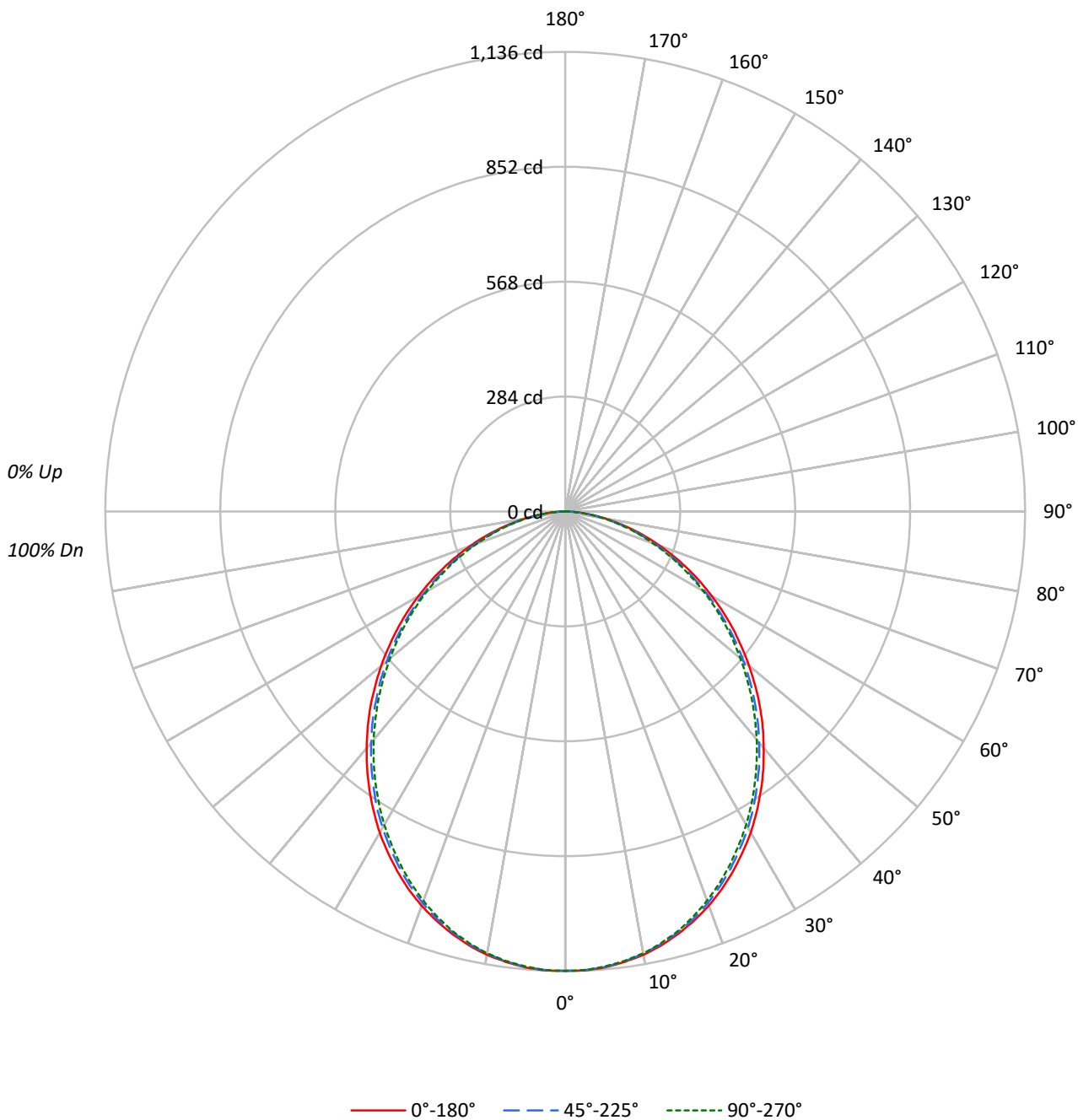
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2863.0 lumens  
Efficiency: N/A  
Efficacy: 134.4 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°	1528	1528	1528
5°	1528	1526	1525
10°	1520	1517	1515
15°	1505	1500	1496
20°	1485	1475	1466
25°	1457	1441	1430
30°	1424	1402	1389
35°	1384	1357	1342
40°	1340	1309	1293
45°	1294	1257	1239
50°	1241	1203	1182
55°	1187	1145	1124
60°	1126	1081	1061
65°	1060	1010	989
70°	985	933	910
75°	894	844	830
80°	775	733	738
85°	639	631	590

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1294 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	3.7
10°-20°	303.5	10.6
20°-30°	447.3	15.6
30°-40°	517.8	18.1
40°-50°	511.2	17.9
50°-60°	437.9	15.3
60°-70°	316.6	11.1
70°-80°	174.5	6.1
80°-90°	47.0	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°	858.0	30.0
0°-40°	1375.9	48.1
0°-60°	2324.9	81.2
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1136	1136	1136	1136	1136	
5°	1131	1131	1130	1129	1129	107
15°	1081	1080	1077	1075	1074	305
25°	981	978	970	966	963	452
35°	842	837	826	819	817	527
45°	680	671	661	654	651	524
55°	506	496	488	481	479	452
65°	333	325	317	312	311	330
75°	172	167	162	162	160	183
85°	41	41	41	38	38	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1135.5	1135.5	1135.5	1135.5	1135.5
2.5°	1135.5	1135.5	1134.4	1134.4	1134.4
5°	1131.2	1130.6	1130.1	1129.0	1129.0
7.5°	1123.1	1123.1	1121.5	1121.5	1120.4
10°	1112.9	1111.8	1110.2	1110.2	1109.1
12.5°	1098.4	1097.3	1095.1	1094.6	1093.0
15°	1080.6	1079.6	1076.9	1075.3	1074.2
17.5°	1060.2	1058.6	1055.4	1052.7	1050.5
20°	1037.1	1034.9	1030.1	1026.9	1024.2
22.5°	1010.7	1008.6	1001.6	997.8	995.1
25°	981.2	978.5	970.4	965.6	962.9
27.5°	949.4	946.2	937.1	931.7	929.0
30°	916.7	911.8	902.7	896.2	894.1
32.5°	880.1	875.3	866.1	858.6	856.4
35°	842.5	837.1	826.3	819.3	817.2
37.5°	803.8	796.8	787.1	780.1	776.9
40°	762.9	755.9	745.2	737.6	736.0
42.5°	722.0	713.4	704.3	696.8	693.5
45°	680.1	671.0	660.7	654.3	651.1
47.5°	636.0	627.4	618.3	610.7	608.1
50°	593.0	583.9	574.7	567.7	564.5
52.5°	548.9	539.8	531.2	525.3	522.0
55°	505.9	496.2	488.2	481.2	479.0
57.5°	462.4	453.8	444.6	438.2	436.6
60°	418.3	410.7	401.6	395.7	394.1
62.5°	375.8	368.3	359.7	353.8	351.1
65°	332.8	325.3	317.2	312.4	310.7
67.5°	290.9	283.9	276.9	272.0	271.0
70°	250.5	243.5	237.1	232.8	231.2
72.5°	210.2	205.4	198.9	196.2	194.6
75°	172.0	166.7	162.4	161.8	159.7
77.5°	134.9	134.4	127.4	126.3	126.3
80°	100.0	98.4	94.6	93.5	95.2
82.5°	68.8	67.7	65.6	65.1	64.5
85°	41.4	41.4	40.9	38.2	38.2
87.5°	18.8	18.3	17.7	18.3	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)