

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: P601148

Luminaire Tested: 24D3X-LP-30-L840

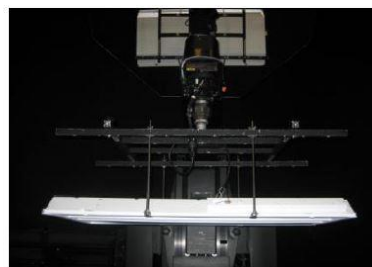
Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601148  
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-L840  
Description: 2x4 D3X-LP AT 3000LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

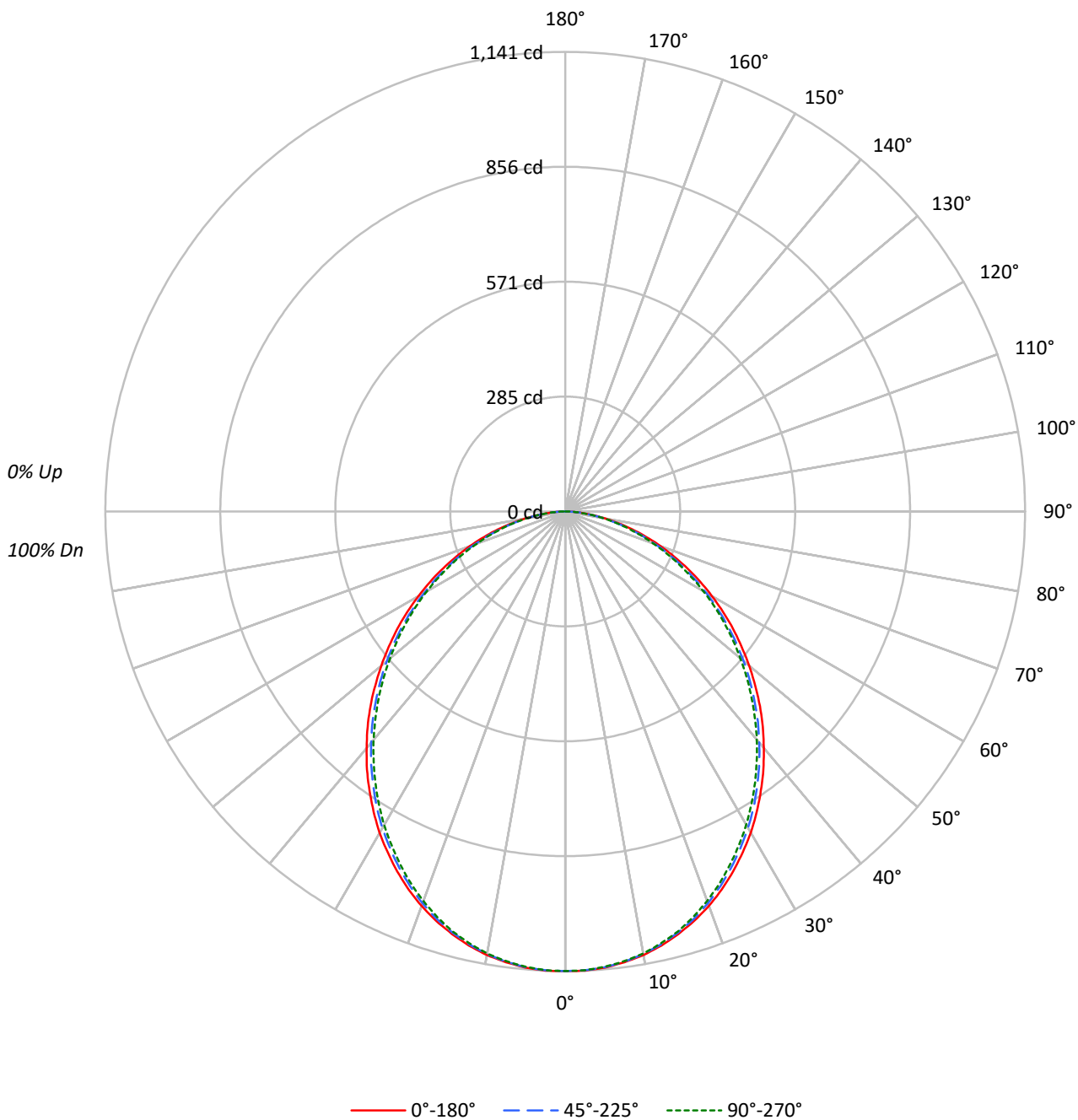
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2877.0 lumens  
Efficiency: N/A  
Efficacy: 135.1 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	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°	1535	1535	1535
5°	1535	1534	1532
10°	1528	1524	1523
15°	1513	1507	1504
20°	1492	1482	1474
25°	1464	1448	1436
30°	1431	1409	1396
35°	1391	1364	1349
40°	1346	1315	1299
45°	1300	1263	1245
50°	1247	1209	1187
55°	1193	1151	1129
60°	1131	1086	1066
65°	1065	1015	994
70°	991	937	914
75°	899	848	834
80°	779	737	741
85°	642	634	593

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1300 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	3.7
10°-20°	305.0	10.6
20°-30°	449.5	15.6
30°-40°	520.3	18.1
40°-50°	513.7	17.9
50°-60°	440.0	15.3
60°-70°	318.1	11.1
70°-80°	175.4	6.1
80°-90°	47.2	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°	862.2	30.0
0°-40°	1382.6	48.1
0°-60°	2336.3	81.2
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1137	1136	1136	1134	1134	108
15°	1086	1085	1082	1080	1079	306
25°	986	983	975	970	968	454
35°	847	841	830	823	821	529
45°	683	674	664	658	654	527
55°	508	499	491	484	481	454
65°	334	327	319	314	312	332
75°	173	168	163	163	160	183
85°	42	42	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°	1141.0	1141.0	1141.0	1141.0	1141.0
2.5°	1141.0	1141.0	1139.9	1139.9	1139.9
5°	1136.7	1136.2	1135.6	1134.5	1134.5
7.5°	1128.6	1128.6	1127.0	1127.0	1125.9
10°	1118.3	1117.2	1115.6	1115.6	1114.5
12.5°	1103.7	1102.7	1100.5	1100.0	1098.3
15°	1085.9	1084.8	1082.1	1080.5	1079.4
17.5°	1065.4	1063.8	1060.5	1057.8	1055.7
20°	1042.2	1040.0	1035.1	1031.9	1029.2
22.5°	1015.7	1013.5	1006.5	1002.7	1000.0
25°	986.0	983.3	975.2	970.3	967.6
27.5°	954.1	950.8	941.7	936.3	933.6
30°	921.1	916.3	907.1	900.6	898.4
32.5°	884.4	879.5	870.4	862.8	860.6
35°	846.6	841.2	830.4	823.3	821.2
37.5°	807.7	800.7	790.9	783.9	780.7
40°	766.6	759.6	748.8	741.2	739.6
42.5°	725.6	716.9	707.7	700.2	696.9
45°	683.4	674.2	664.0	657.5	654.2
47.5°	639.1	630.5	621.3	613.7	611.0
50°	595.9	586.7	577.5	570.5	567.3
52.5°	551.6	542.4	533.8	527.8	524.6
55°	508.4	498.7	490.6	483.5	481.4
57.5°	464.6	456.0	446.8	440.3	438.7
60°	420.3	412.8	403.6	397.6	396.0
62.5°	377.6	370.1	361.4	355.5	352.8
65°	334.4	326.9	318.8	313.9	312.3
67.5°	292.3	285.3	278.2	273.4	272.3
70°	251.8	244.7	238.3	233.9	232.3
72.5°	211.2	206.4	199.9	197.2	195.6
75°	172.9	167.5	163.2	162.6	160.5
77.5°	135.6	135.1	128.0	127.0	127.0
80°	100.5	98.9	95.1	94.0	95.6
82.5°	69.2	68.1	65.9	65.4	64.8
85°	41.6	41.6	41.1	38.4	38.4
87.5°	18.9	18.4	17.8	18.4	20.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)