

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: P601157

Luminaire Tested: 24D3X-LP-35-L940

Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601157  
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-35-L940  
Description: 2x4 D3X-LP AT 3500LM 4000K 90CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

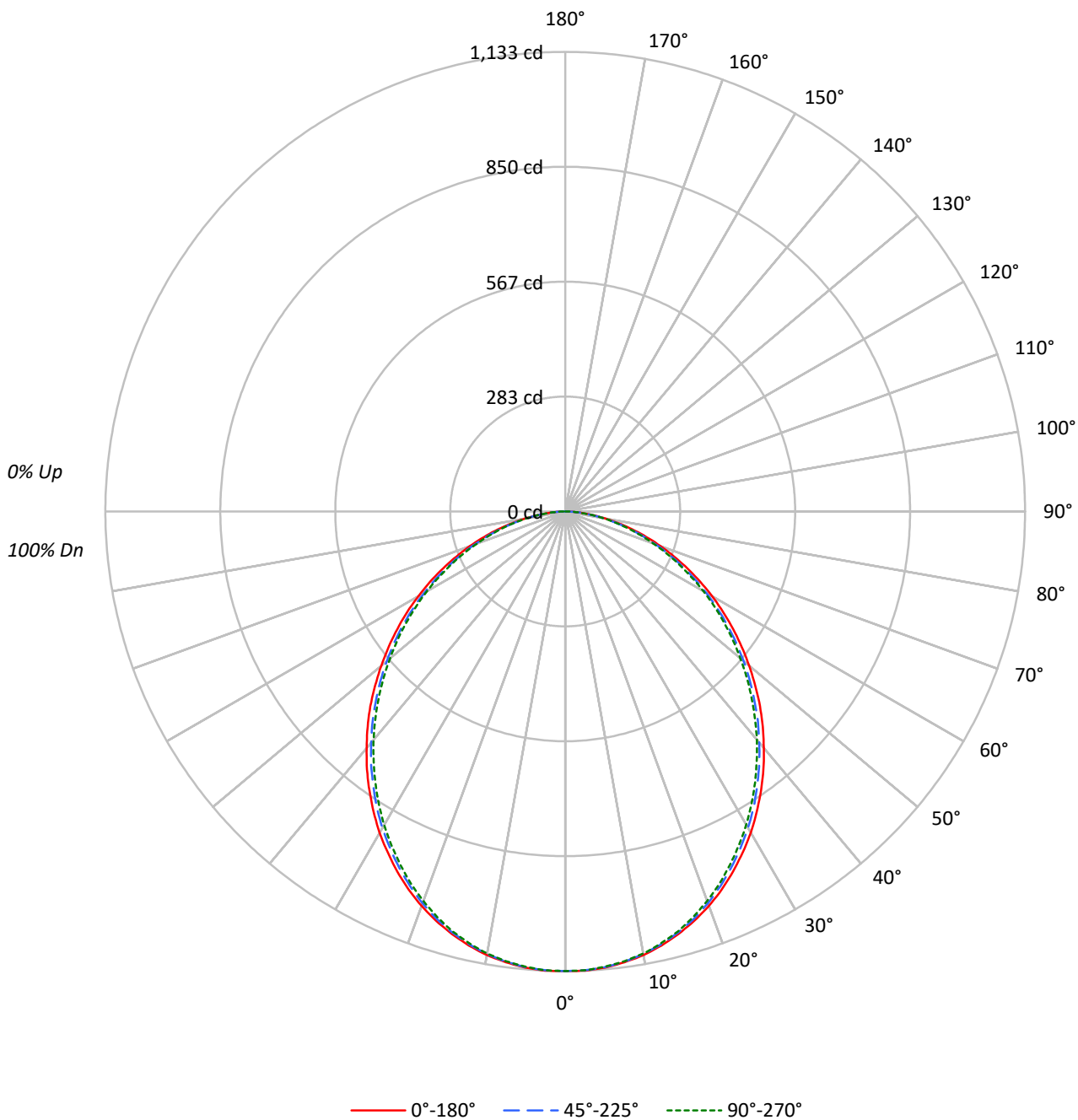
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2857.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 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): 25.3  
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°	1525	1525	1525
5°	1525	1523	1522
10°	1517	1514	1512
15°	1502	1497	1493
20°	1482	1472	1463
25°	1454	1438	1427
30°	1421	1400	1386
35°	1381	1354	1339
40°	1337	1306	1290
45°	1291	1255	1236
50°	1239	1200	1179
55°	1184	1143	1121
60°	1123	1079	1058
65°	1057	1008	987
70°	983	931	908
75°	893	842	828
80°	773	731	736
85°	638	630	588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1291 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	3.7
10°-20°	302.9	10.6
20°-30°	446.3	15.6
30°-40°	516.7	18.1
40°-50°	510.1	17.9
50°-60°	436.9	15.3
60°-70°	315.9	11.1
70°-80°	174.1	6.1
80°-90°	46.9	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°	856.2	30.0
0°-40°	1373.0	48.1
0°-60°	2320.0	81.2
0°-90°	2857.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2857.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1129	1128	1128	1127	1127	107
15°	1078	1077	1075	1073	1072	304
25°	979	976	968	964	961	451
35°	841	835	825	818	816	526
45°	679	670	659	653	650	523
55°	505	495	487	480	478	451
65°	332	325	316	312	310	329
75°	172	166	162	162	159	182
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°	1133.1	1133.1	1133.1	1133.1	1133.1
2.5°	1133.1	1133.1	1132.0	1132.0	1132.0
5°	1128.8	1128.3	1127.7	1126.6	1126.6
7.5°	1120.7	1120.7	1119.1	1119.1	1118.1
10°	1110.6	1109.5	1107.9	1107.9	1106.8
12.5°	1096.1	1095.0	1092.8	1092.3	1090.7
15°	1078.4	1077.3	1074.6	1073.0	1071.9
17.5°	1058.0	1056.4	1053.1	1050.5	1048.3
20°	1034.9	1032.8	1027.9	1024.7	1022.0
22.5°	1008.6	1006.5	999.5	995.7	993.1
25°	979.1	976.4	968.4	963.6	960.9
27.5°	947.5	944.2	935.1	929.8	927.1
30°	914.7	909.9	900.8	894.3	892.2
32.5°	878.3	873.4	864.3	856.8	854.6
35°	840.7	835.3	824.6	817.6	815.5
37.5°	802.1	795.1	785.4	778.5	775.2
40°	761.3	754.3	743.6	736.1	734.5
42.5°	720.5	711.9	702.8	695.3	692.1
45°	678.7	669.6	659.4	652.9	649.7
47.5°	634.7	626.1	617.0	609.5	606.8
50°	591.8	582.6	573.5	566.5	563.3
52.5°	547.8	538.6	530.1	524.2	520.9
55°	504.8	495.2	487.1	480.2	478.0
57.5°	461.4	452.8	443.7	437.2	435.6
60°	417.4	409.9	400.8	394.9	393.3
62.5°	375.0	367.5	358.9	353.0	350.3
65°	332.1	324.6	316.5	311.7	310.1
67.5°	290.2	283.3	276.3	271.5	270.4
70°	250.0	243.0	236.6	232.3	230.7
72.5°	209.8	204.9	198.5	195.8	194.2
75°	171.7	166.3	162.0	161.5	159.3
77.5°	134.7	134.1	127.2	126.1	126.1
80°	99.8	98.2	94.4	93.4	95.0
82.5°	68.7	67.6	65.5	64.9	64.4
85°	41.3	41.3	40.8	38.1	38.1
87.5°	18.8	18.2	17.7	18.2	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)