

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: P601154

Luminaire Tested: 24D3X-LP-35-L840

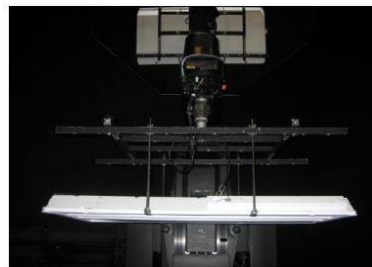
Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601154  
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-L840  
Description: 2x4 D3X-LP AT 3500LM 4000K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

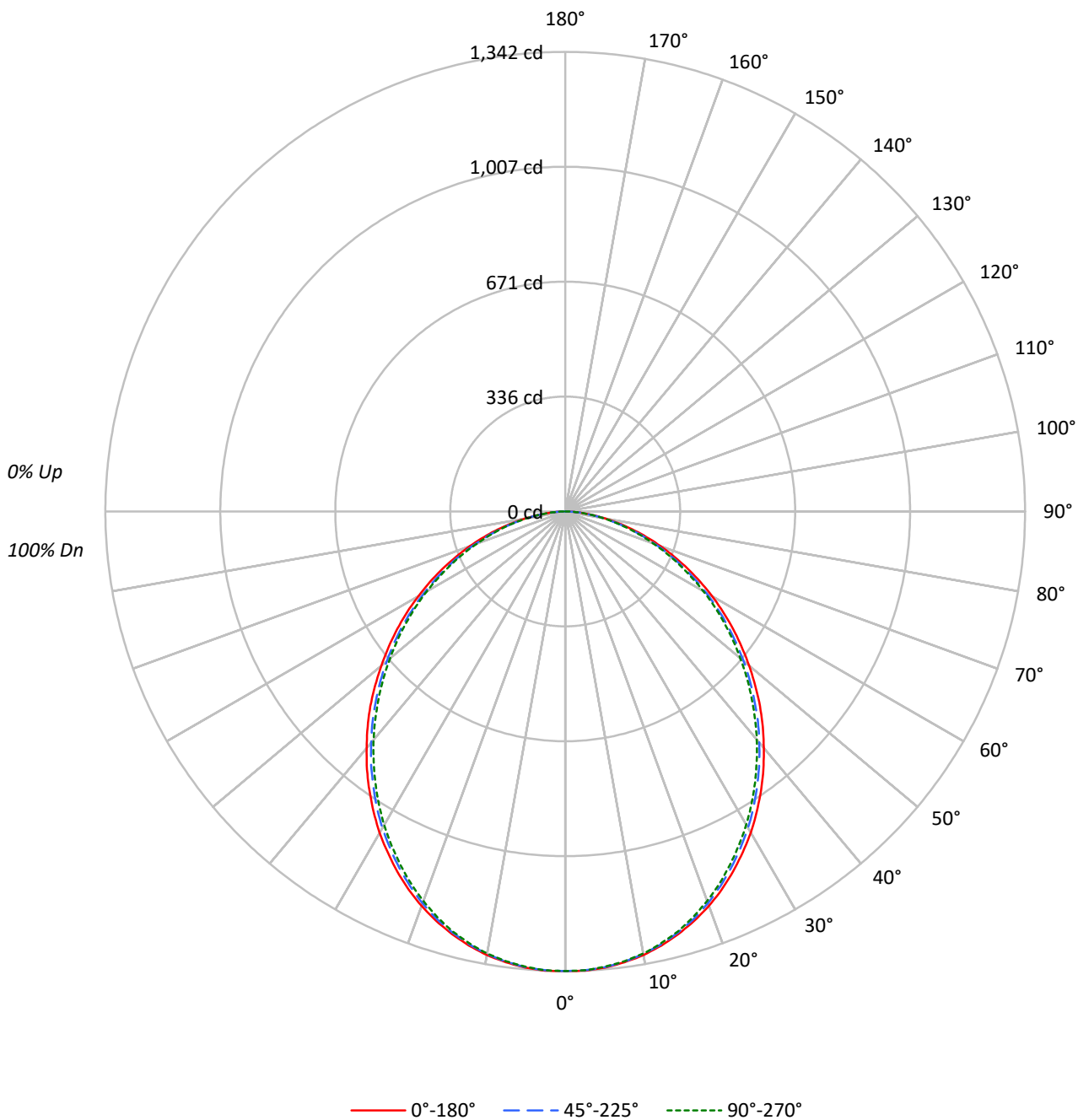
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3384.0 lumens  
Efficiency: N/A  
Efficacy: 133.8 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	31	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°	1806	1806	1806
5°	1806	1804	1802
10°	1797	1793	1791
15°	1779	1773	1769
20°	1755	1743	1733
25°	1722	1703	1690
30°	1683	1658	1642
35°	1636	1604	1587
40°	1584	1547	1528
45°	1530	1486	1464
50°	1467	1422	1397
55°	1403	1354	1328
60°	1330	1277	1253
65°	1252	1194	1169
70°	1165	1102	1075
75°	1057	998	981
80°	916	866	872
85°	755	746	696

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 1530 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.8	3.7
10°-20°	358.7	10.6
20°-30°	528.7	15.6
30°-40°	612.0	18.1
40°-50°	604.2	17.9
50°-60°	517.5	15.3
60°-70°	374.2	11.1
70°-80°	206.3	6.1
80°-90°	55.5	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°	1014.2	30.0
0°-40°	1626.2	48.1
0°-60°	2748.0	81.2
0°-90°	3384.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3384.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1337	1336	1336	1334	1334	127
15°	1277	1276	1273	1271	1270	360
25°	1160	1156	1147	1141	1138	534
35°	996	989	977	968	966	623
45°	804	793	781	773	770	619
55°	598	586	577	569	566	535
65°	393	384	375	369	367	390
75°	203	197	192	191	189	216
85°	49	49	48	45	45	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1342.1	1342.1	1342.1	1342.1	1342.1
2.5°	1342.1	1342.1	1340.8	1340.8	1340.8
5°	1337.0	1336.4	1335.7	1334.5	1334.5
7.5°	1327.5	1327.5	1325.6	1325.6	1324.3
10°	1315.4	1314.1	1312.2	1312.2	1311.0
12.5°	1298.2	1297.0	1294.4	1293.8	1291.9
15°	1277.3	1276.0	1272.8	1270.9	1269.7
17.5°	1253.1	1251.2	1247.4	1244.2	1241.7
20°	1225.8	1223.3	1217.5	1213.7	1210.6
22.5°	1194.7	1192.1	1183.9	1179.4	1176.2
25°	1159.7	1156.5	1147.0	1141.3	1138.1
27.5°	1122.2	1118.4	1107.6	1101.3	1098.1
30°	1083.5	1077.7	1066.9	1059.3	1056.8
32.5°	1040.3	1034.5	1023.7	1014.8	1012.3
35°	995.8	989.4	976.7	968.4	965.9
37.5°	950.0	941.8	930.3	922.1	918.2
40°	901.7	893.5	880.8	871.9	869.9
42.5°	853.4	843.3	832.5	823.6	819.7
45°	803.9	793.1	781.0	773.4	769.5
47.5°	751.8	741.6	730.8	721.9	718.7
50°	700.9	690.1	679.3	671.0	667.2
52.5°	648.8	638.0	627.8	620.8	617.0
55°	598.0	586.5	577.0	568.7	566.2
57.5°	546.5	536.3	525.5	517.9	516.0
60°	494.4	485.5	474.7	467.7	465.8
62.5°	444.2	435.3	425.1	418.1	415.0
65°	393.4	384.5	374.9	369.2	367.3
67.5°	343.8	335.5	327.3	321.5	320.3
70°	296.1	287.9	280.2	275.2	273.2
72.5°	248.5	242.7	235.1	231.9	230.0
75°	203.3	197.0	191.9	191.3	188.7
77.5°	159.5	158.9	150.6	149.3	149.3
80°	118.2	116.3	111.8	110.6	112.5
82.5°	81.3	80.1	77.5	76.9	76.3
85°	48.9	48.9	48.3	45.1	45.1
87.5°	22.2	21.6	21.0	21.6	23.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)