

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: P601195

Luminaire Tested: 24D3X-LP-80-L835

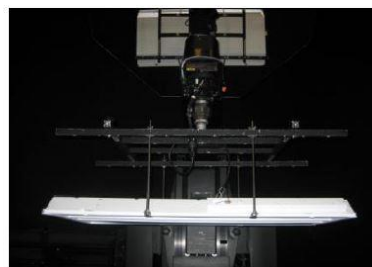
Issue Date: 10/6/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P601195  
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-80-L835  
Description: 2x4 D3X-LP AT 8000LM 3500K 80CRI  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

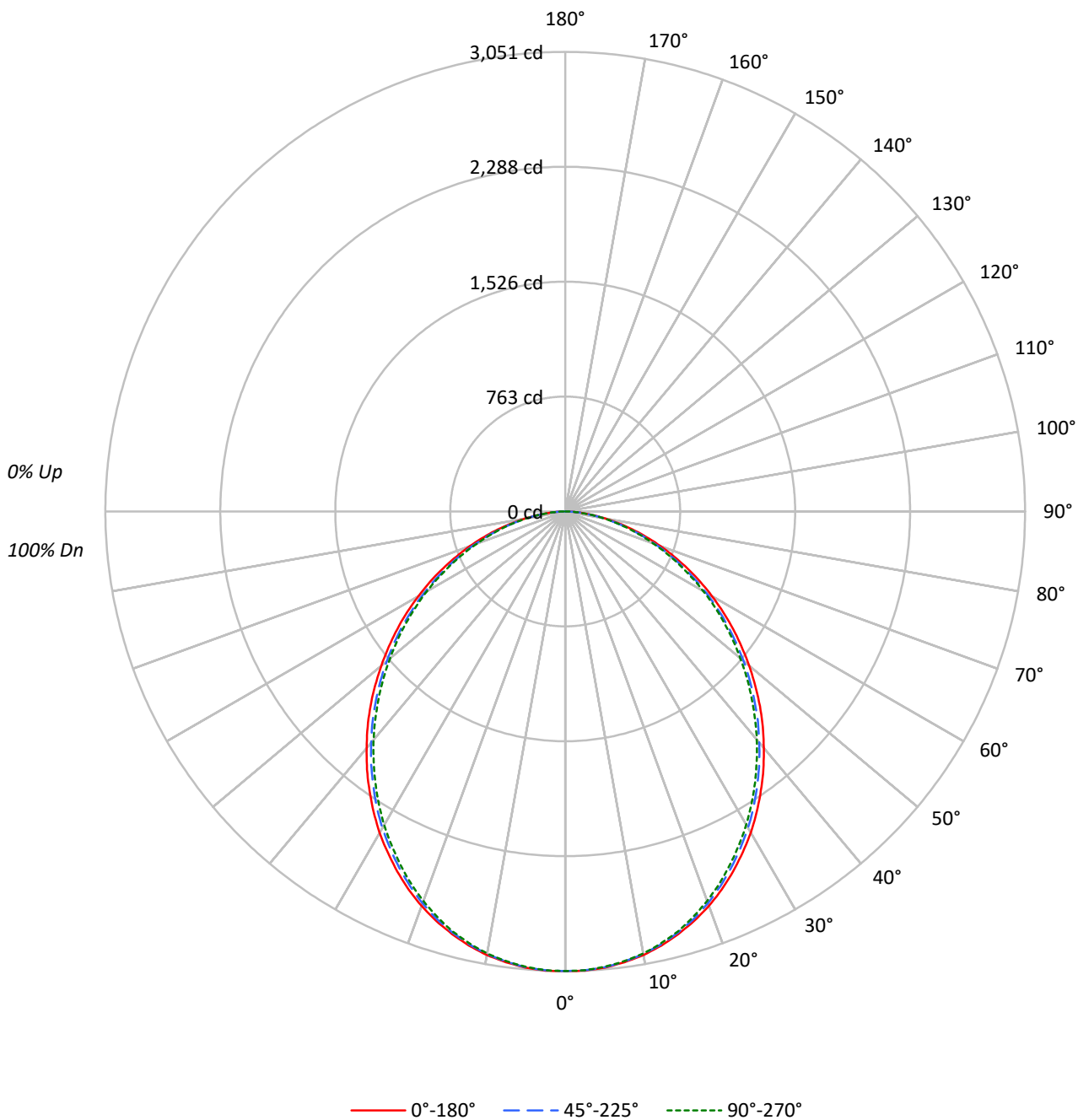
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7693.0 lumens  
Efficiency: N/A  
Efficacy: 125.7 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): 61.2  
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°	4105	4105	4105
5°	4105	4101	4097
10°	4086	4076	4072
15°	4045	4031	4021
20°	3990	3963	3940
25°	3914	3871	3841
30°	3827	3768	3732
35°	3718	3647	3607
40°	3600	3517	3474
45°	3477	3378	3329
50°	3335	3233	3175
55°	3189	3077	3019
60°	3024	2904	2849
65°	2847	2713	2658
70°	2648	2506	2444
75°	2403	2268	2231
80°	2082	1970	1981
85°	1717	1695	1584

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 3477 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	288.2	3.7
10°-20°	815.5	10.6
20°-30°	1201.9	15.6
30°-40°	1391.4	18.1
40°-50°	1373.6	17.9
50°-60°	1176.6	15.3
60°-70°	850.6	11.1
70°-80°	468.9	6.1
80°-90°	126.3	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°	2305.6	30.0
0°-40°	3696.9	48.1
0°-60°	6247.2	81.2
0°-90°	7693.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7693.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3051	3051	3051	3051	3051	
5°	3040	3038	3037	3034	3034	289
15°	2904	2901	2894	2889	2886	819
25°	2636	2629	2608	2594	2587	1214
35°	2264	2249	2220	2202	2196	1415
45°	1828	1803	1775	1758	1749	1408
55°	1359	1333	1312	1293	1287	1215
65°	894	874	852	839	835	887
75°	462	448	436	435	429	491
85°	111	111	110	103	103	131
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3051.0	3051.0	3051.0	3051.0	3051.0
2.5°	3051.0	3051.0	3048.2	3048.2	3048.2
5°	3039.5	3038.0	3036.6	3033.7	3033.7
7.5°	3017.8	3017.8	3013.5	3013.5	3010.6
10°	2990.4	2987.5	2983.1	2983.1	2980.3
12.5°	2951.4	2948.5	2942.7	2941.3	2936.9
15°	2903.7	2900.8	2893.6	2889.2	2886.4
17.5°	2848.8	2844.5	2835.8	2828.6	2822.8
20°	2786.7	2780.9	2767.9	2759.2	2752.0
22.5°	2715.9	2710.1	2691.3	2681.2	2674.0
25°	2636.4	2629.2	2607.5	2594.5	2587.3
27.5°	2551.2	2542.5	2518.0	2503.5	2496.3
30°	2463.1	2450.1	2425.5	2408.2	2402.4
32.5°	2364.9	2351.8	2327.3	2307.1	2301.3
35°	2263.7	2249.3	2220.4	2201.6	2195.8
37.5°	2159.7	2140.9	2114.9	2096.2	2087.5
40°	2049.9	2031.1	2002.2	1982.0	1977.7
42.5°	1940.1	1917.0	1892.5	1872.2	1863.6
45°	1827.5	1802.9	1775.4	1758.1	1749.4
47.5°	1709.0	1685.9	1661.3	1641.1	1633.9
50°	1593.4	1568.9	1544.3	1525.5	1516.9
52.5°	1475.0	1450.4	1427.3	1411.4	1402.7
55°	1359.4	1333.4	1311.7	1292.9	1287.2
57.5°	1242.4	1219.3	1194.7	1177.4	1173.0
60°	1123.9	1103.7	1079.1	1063.2	1058.9
62.5°	1009.8	989.6	966.5	950.6	943.3
65°	894.2	874.0	852.3	839.3	835.0
67.5°	781.5	762.8	744.0	731.0	728.1
70°	673.2	654.4	637.1	625.5	621.2
72.5°	564.8	551.8	534.5	527.3	523.0
75°	462.3	447.8	436.3	434.8	429.1
77.5°	362.6	361.2	342.4	339.5	339.5
80°	268.7	264.4	254.3	251.4	255.7
82.5°	184.9	182.0	176.2	174.8	173.4
85°	111.2	111.2	109.8	102.6	102.6
87.5°	50.6	49.1	47.7	49.1	53.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)