

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P258360

Luminaire Tested: **D3X-WD-31L840-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258360  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L840-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2903.1 lumens  
Efficiency: N/A  
Efficacy: 130.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

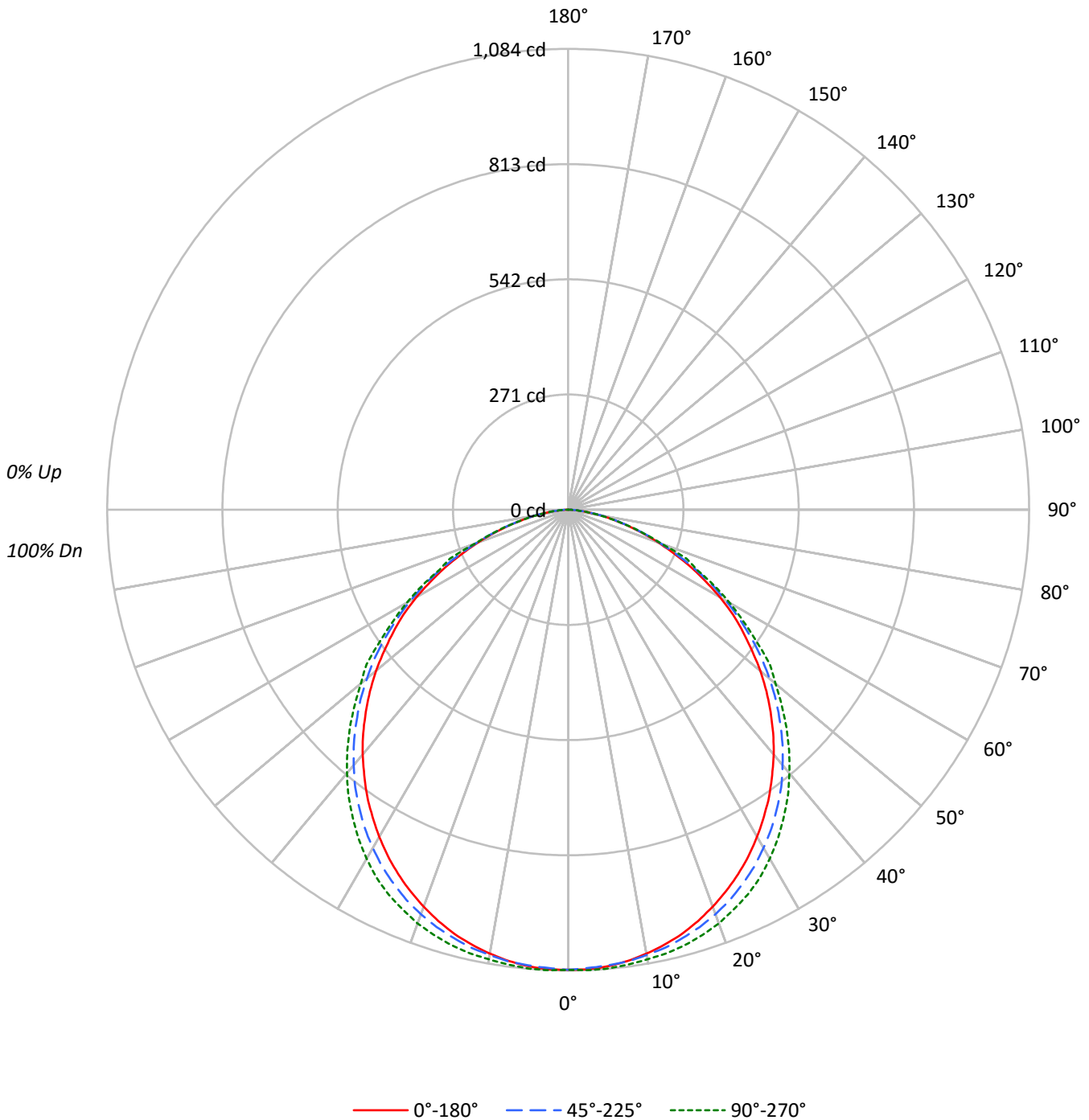
Input Watts (W): 22.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	107	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
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	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1456	1456	1456
5°	1456	1453	1463
10°	1449	1453	1467
15°	1439	1452	1477
20°	1423	1450	1483
25°	1404	1441	1483
30°	1380	1427	1473
35°	1353	1406	1451
40°	1321	1378	1421
45°	1280	1340	1381
50°	1234	1293	1332
55°	1178	1232	1268
60°	1110	1152	1180
65°	1008	1041	1061
70°	885	906	918
75°	747	758	764
80°	597	605	589
85°	401	418	401



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.6	3.5
10°-20°	294.9	10.2
20°-30°	447.5	15.4
30°-40°	534.3	18.4
40°-50°	540.9	18.6
50°-60°	467.5	16.1
60°-70°	324.1	11.2
70°-80°	156.8	5.4
80°-90°	34.5	1.2
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°	845.0	29.1
0°-40°	1379.3	47.5
0°-60°	2387.7	82.2
0°-90°	2903.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2903.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1082	1082	1082	1082	1082	
5°	1078	1077	1076	1081	1083	102
15°	1033	1035	1043	1055	1060	291
25°	946	952	971	991	999	436
35°	824	831	856	878	883	515
45°	673	682	704	722	726	519
55°	502	507	525	547	541	449
65°	317	320	327	332	333	313
75°	144	145	146	145	147	154
85°	26	28	27	26	26	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1082.2	1082.2	1082.2	1082.2	1082.2
2.5°	1082.2	1081.2	1079.1	1082.2	1084.3
5°	1078.1	1077.0	1076.0	1081.2	1083.3
7.5°	1070.8	1070.8	1071.8	1077.0	1079.1
10°	1060.4	1061.4	1063.5	1071.8	1073.9
12.5°	1047.9	1049.9	1055.2	1064.5	1068.7
15°	1033.3	1035.4	1042.7	1055.2	1060.4
17.5°	1014.5	1018.7	1029.1	1043.7	1048.9
20°	993.7	998.9	1012.4	1029.1	1035.4
22.5°	970.8	976.0	993.7	1011.4	1017.7
25°	945.8	952.0	970.8	990.6	998.9
27.5°	918.7	926.0	946.8	967.7	976.0
30°	888.5	896.8	918.7	940.6	947.9
32.5°	856.2	864.5	889.5	910.4	917.7
35°	823.9	831.2	856.2	878.1	883.3
37.5°	787.5	795.8	822.9	841.6	848.9
40°	752.0	760.4	784.3	803.1	809.3
42.5°	713.5	721.8	745.8	763.5	768.7
45°	672.9	682.3	704.1	721.8	726.0
47.5°	632.3	639.5	662.5	678.1	681.2
50°	589.6	596.8	617.7	633.3	636.4
52.5°	544.8	556.2	572.9	584.3	597.9
55°	502.1	507.3	525.0	546.8	540.6
57.5°	459.4	462.5	477.1	486.4	488.5
60°	412.5	416.6	428.1	433.3	438.5
62.5°	363.5	366.6	380.2	385.4	387.5
65°	316.7	319.8	327.1	332.3	333.3
67.5°	268.7	271.9	278.1	282.3	301.0
70°	225.0	227.1	230.2	238.5	233.3
72.5°	183.3	184.4	187.5	187.5	188.5
75°	143.7	144.8	145.8	144.8	146.9
77.5°	107.3	109.4	110.4	109.4	108.3
80°	77.1	79.2	78.1	76.0	76.0
82.5°	50.0	51.0	50.0	49.0	49.0
85°	26.0	28.1	27.1	26.0	26.0
87.5°	9.4	10.4	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)