

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: P257565

Luminaire Tested: **D3X-WO-31L840-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257565  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L840-LD5-UNV-14-T1-STD  
Description: CORELITE D3X 1X4 LED LUMINAIRE  
Light Source: (112) 4000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3272.9 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

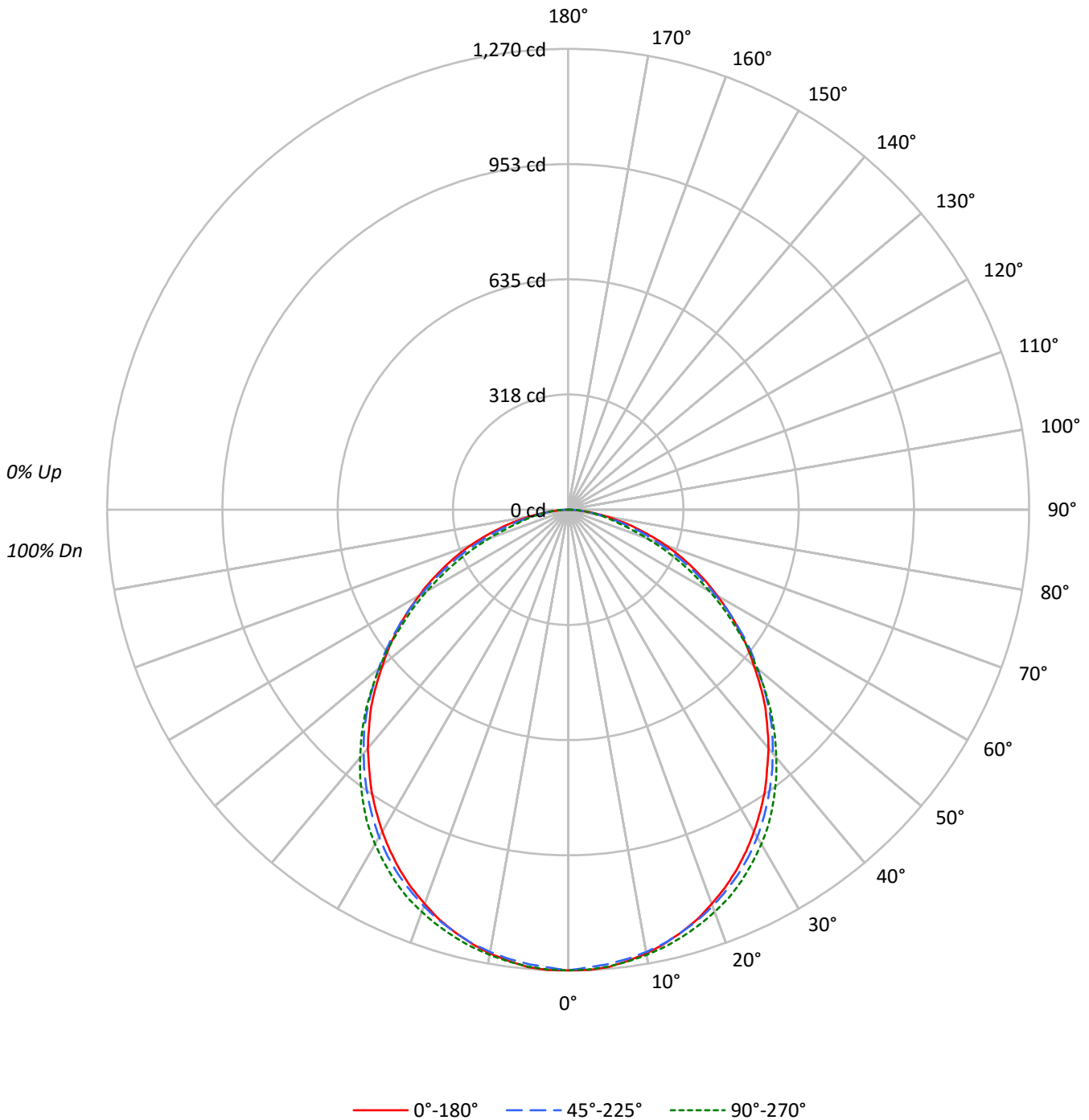
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	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°	3416	3416	3416
5°	3418	3395	3414
10°	3393	3381	3404
15°	3359	3359	3394
20°	3310	3329	3377
25°	3254	3291	3353
30°	3182	3237	3306
35°	3104	3163	3236
40°	3017	3080	3134
45°	2920	2983	3009
50°	2794	2852	2840
55°	2688	2708	2636
60°	2554	2516	2419
65°	2412	2315	2155
70°	2238	2052	1823
75°	1991	1760	1500
80°	1655	1441	1398
85°	1198	1284	1284



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	3.7
10°-20°	341.3	10.4
20°-30°	511.5	15.6
30°-40°	602.6	18.4
40°-50°	601.0	18.4
50°-60°	511.2	15.6
60°-70°	356.8	10.9
70°-80°	181.4	5.5
80°-90°	47.4	1.4
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°	972.5	29.7
0°-40°	1575.1	48.1
0°-60°	2687.4	82.1
0°-90°	3272.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3272.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1270	1270	1270	1270	1270	
5°	1265	1262	1257	1264	1264	120
15°	1206	1206	1206	1217	1218	340
25°	1096	1097	1108	1125	1129	504
35°	945	946	963	982	985	590
45°	767	770	784	789	791	590
55°	573	573	577	569	562	512
65°	379	373	364	344	338	376
75°	192	184	169	148	144	203
85°	39	40	42	42	42	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1269.5	1269.5	1269.5	1269.5	1269.5
2.5°	1269.5	1268.1	1262.5	1268.1	1268.1
5°	1265.3	1262.5	1257.0	1263.9	1263.9
7.5°	1254.2	1252.8	1248.6	1255.6	1255.6
10°	1241.7	1240.3	1237.5	1245.9	1245.9
12.5°	1225.1	1225.1	1223.7	1232.0	1233.4
15°	1205.6	1205.6	1205.6	1216.7	1218.1
17.5°	1183.4	1182.0	1186.2	1198.7	1200.1
20°	1155.7	1157.1	1162.6	1176.5	1179.3
22.5°	1127.9	1129.3	1136.3	1152.9	1157.1
25°	1096.0	1097.4	1108.5	1125.2	1129.3
27.5°	1061.3	1064.1	1076.6	1094.6	1097.4
30°	1023.9	1026.7	1041.9	1060.0	1064.1
32.5°	985.0	989.2	1003.1	1022.5	1028.0
35°	944.8	946.2	962.8	982.3	985.0
37.5°	900.4	904.6	921.2	937.9	940.6
40°	858.8	861.6	876.8	890.7	892.1
42.5°	811.6	815.8	832.4	842.1	842.1
45°	767.2	770.0	783.9	789.4	790.8
47.5°	717.3	720.1	732.5	735.3	735.3
50°	667.3	674.3	681.2	681.2	678.4
52.5°	621.5	622.9	631.3	625.7	622.9
55°	573.0	573.0	577.2	568.8	561.9
57.5°	524.4	524.4	524.4	513.3	507.8
60°	474.5	473.1	467.5	453.7	449.5
62.5°	427.3	423.2	414.8	401.0	392.6
65°	378.8	373.2	363.5	344.1	338.5
67.5°	333.0	323.3	312.2	294.1	284.4
70°	284.4	276.1	260.8	240.0	231.7
72.5°	237.2	228.9	216.4	195.6	183.1
75°	191.5	184.5	169.3	148.4	144.3
77.5°	147.1	142.9	127.6	117.9	116.5
80°	106.8	105.4	93.0	90.2	90.2
82.5°	70.8	69.4	65.2	65.2	63.8
85°	38.8	40.2	41.6	41.6	41.6
87.5°	13.9	16.6	19.4	19.4	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)