

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: P257318

Luminaire Tested: **D3X-WD-31L835-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257318  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L835-LD5-UNV-14-T1-STD  
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (112) 3500 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3107.8 lumens  
Efficiency: N/A  
Efficacy: 101.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

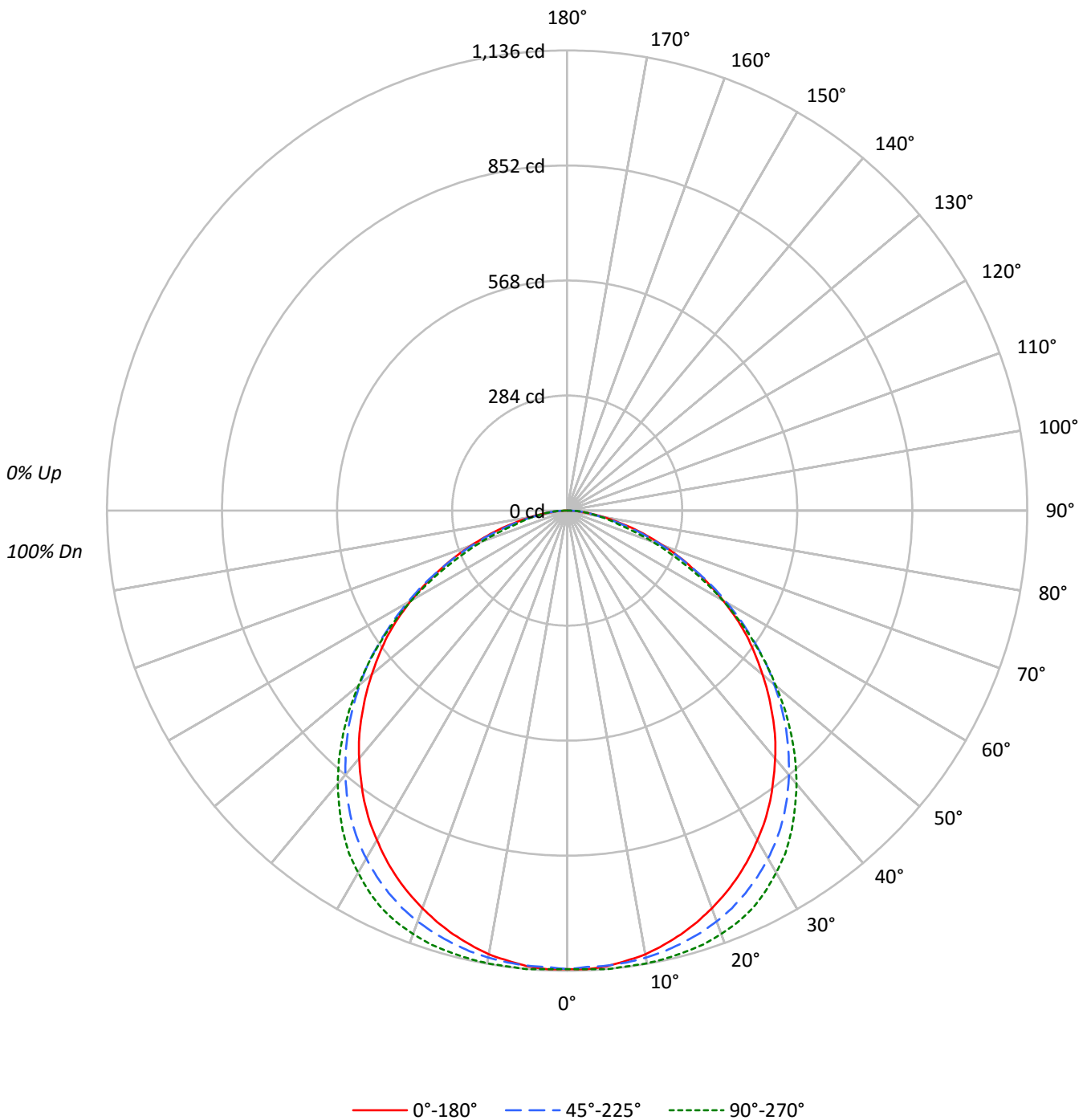
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	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	71
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	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	3046	3046	3046
5°	3050	3046	3069
10°	3040	3063	3101
15°	3019	3076	3142
20°	2991	3091	3186
25°	2961	3093	3217
30°	2918	3082	3207
35°	2871	3053	3172
40°	2807	2992	3094
45°	2729	2909	2978
50°	2637	2794	2817
55°	2545	2642	2630
60°	2397	2449	2389
65°	2208	2217	2094
70°	1976	1932	1758
75°	1717	1601	1356
80°	1376	1247	1247
85°	985	1158	1198



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.7	3.5
10°-20°	312.5	10.1
20°-30°	479.8	15.4
30°-40°	577.9	18.6
40°-50°	584.0	18.8
50°-60°	498.1	16.0
60°-70°	341.0	11.0
70°-80°	164.5	5.3
80°-90°	42.4	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°	900.0	29.0
0°-40°	1477.8	47.6
0°-60°	2559.9	82.4
0°-90°	3107.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3107.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1132	1132	1132	1132	1132	
5°	1129	1129	1128	1135	1136	107
15°	1084	1092	1104	1124	1128	306
25°	997	1013	1042	1072	1084	459
35°	874	893	930	959	966	546
45°	717	737	764	782	782	553
55°	542	552	563	566	560	483
65°	347	351	348	336	329	344
75°	165	165	154	136	130	175
85°	32	35	38	39	39	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1132.0	1132.0	1132.0	1132.0	1132.0
2.5°	1133.4	1132.0	1127.8	1133.4	1133.4
5°	1129.2	1129.2	1127.8	1134.8	1136.2
7.5°	1120.9	1123.7	1125.1	1133.4	1134.8
10°	1112.6	1115.4	1120.9	1132.0	1134.8
12.5°	1098.7	1104.3	1114.0	1129.2	1132.0
15°	1083.5	1091.8	1104.3	1123.7	1127.8
17.5°	1065.4	1076.5	1093.2	1115.4	1122.3
20°	1044.6	1057.1	1079.3	1104.3	1112.6
22.5°	1022.4	1036.3	1062.6	1091.8	1100.1
25°	997.4	1012.7	1041.8	1072.4	1083.5
27.5°	969.7	986.3	1018.3	1050.2	1059.9
30°	939.2	957.2	991.9	1023.8	1032.1
32.5°	908.7	926.7	962.8	993.3	1003.0
35°	874.0	893.4	929.5	958.6	965.5
37.5°	836.5	855.9	892.0	921.1	923.9
40°	799.1	818.5	851.8	878.1	880.9
42.5°	760.2	778.3	808.8	831.0	833.7
45°	717.2	736.6	764.4	782.4	782.4
47.5°	674.2	693.6	717.2	729.7	729.7
50°	629.8	647.9	667.3	674.2	672.8
52.5°	585.4	602.1	618.7	620.1	617.3
55°	542.4	552.1	563.2	566.0	560.5
57.5°	495.3	503.6	510.5	506.4	502.2
60°	445.3	453.6	455.0	448.1	443.9
62.5°	396.8	403.7	403.7	392.6	385.7
65°	346.8	351.0	348.2	335.7	328.8
67.5°	299.7	302.4	296.9	284.4	273.3
70°	251.1	252.5	245.5	230.3	223.4
72.5°	206.7	208.1	199.8	181.7	173.4
75°	165.1	165.1	154.0	136.0	130.4
77.5°	123.5	127.6	115.1	105.4	105.4
80°	88.8	92.9	80.5	81.8	80.5
82.5°	58.3	62.4	58.3	58.3	58.3
85°	31.9	34.7	37.5	38.8	38.8
87.5°	9.7	16.6	18.0	19.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)