

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: P257317

Luminaire Tested: **D3X-WD-31L830-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257317  
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-31L830-LD5-UNV-14-T1-STD  
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (112) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2983.4 lumens  
Efficiency: N/A  
Efficacy: 97.5 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

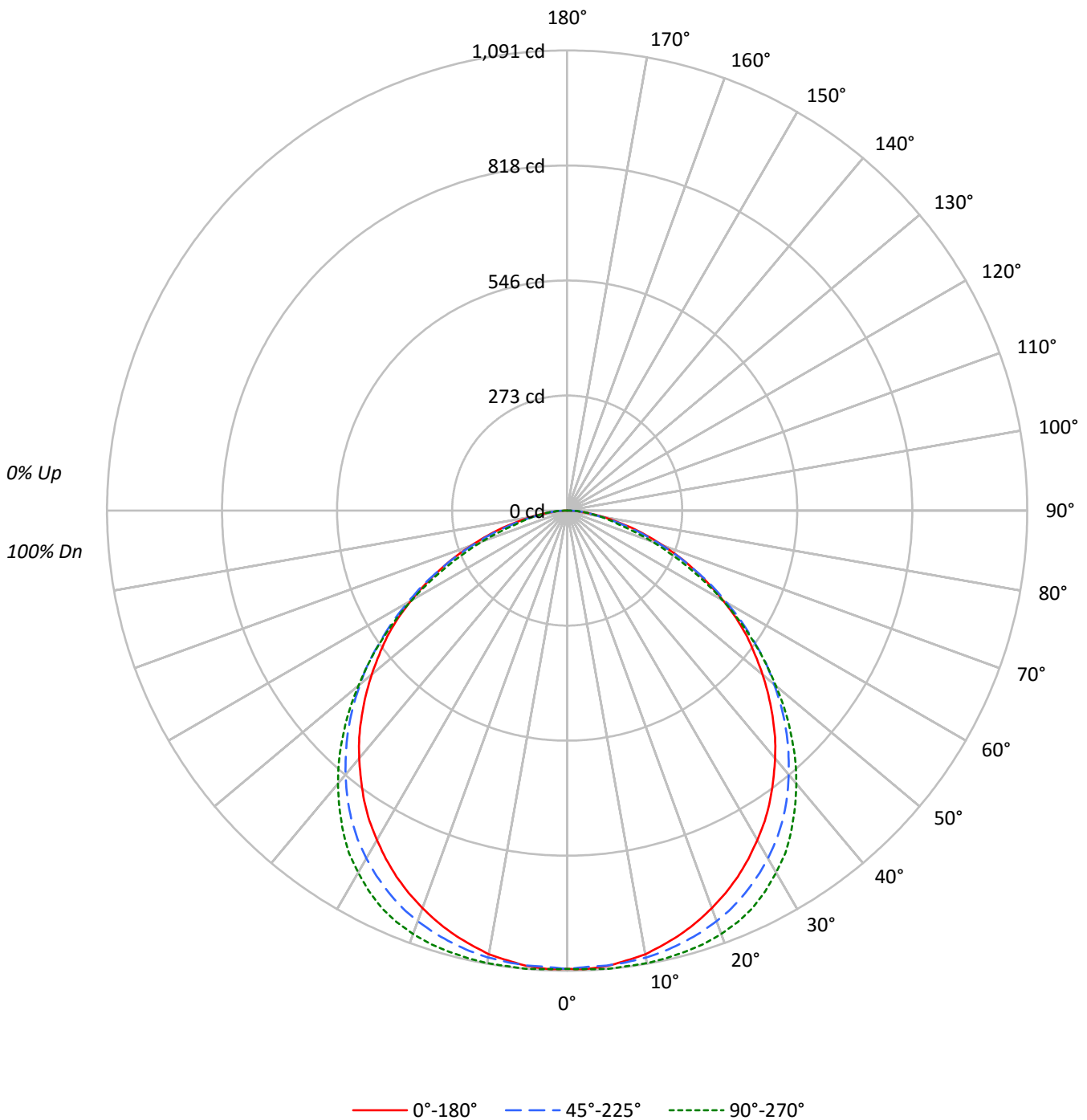
Input Watts (W): 30.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P257317

CATALOG NUMBER: D3X-WD-31L830-LD5-UNV-14-T1-STD

### Luminous Intensity Polar Plot





TEST NUMBER: P257317

CATALOG NUMBER: D3X-WD-31L830-LD5-UNV-14-T1-STD

**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°	2924	2924	2924
5°	2928	2925	2946
10°	2918	2940	2977
15°	2898	2953	3016
20°	2872	2967	3058
25°	2843	2969	3088
30°	2802	2959	3079
35°	2756	2931	3045
40°	2695	2872	2970
45°	2620	2793	2858
50°	2531	2682	2704
55°	2443	2537	2524
60°	2301	2351	2294
65°	2120	2129	2010
70°	1896	1854	1687
75°	1648	1537	1302
80°	1320	1196	1196
85°	945	1112	1152



TEST NUMBER: P257317

CATALOG NUMBER: D3X-WD-31L830-LD5-UNV-14-T1-STD

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.4	3.5
10°-20°	300.0	10.1
20°-30°	460.6	15.4
30°-40°	554.7	18.6
40°-50°	560.6	18.8
50°-60°	478.2	16.0
60°-70°	327.3	11.0
70°-80°	158.0	5.3
80°-90°	40.7	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°	863.9	29.0
0°-40°	1418.7	47.6
0°-60°	2457.4	82.4
0°-90°	2983.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2983.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1087	1087	1087	1087	1087	
5°	1084	1084	1083	1089	1091	103
15°	1040	1048	1060	1079	1083	293
25°	958	972	1000	1029	1040	441
35°	839	858	892	920	927	524
45°	688	707	734	751	751	531
55°	521	530	541	543	538	464
65°	333	337	334	322	316	330
75°	158	158	148	130	125	168
85°	31	33	36	37	37	38
90°	0	0	0	0	0	



TEST NUMBER: P257317

CATALOG NUMBER: D3X-WD-31L830-LD5-UNV-14-T1-STD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1086.7	1086.7	1086.7	1086.7	1086.7
2.5°	1088.0	1086.7	1082.7	1088.0	1088.0
5°	1084.0	1084.0	1082.7	1089.4	1090.7
7.5°	1076.0	1078.7	1080.0	1088.0	1089.4
10°	1068.0	1070.7	1076.0	1086.7	1089.4
12.5°	1054.7	1060.1	1069.4	1084.0	1086.7
15°	1040.1	1048.1	1060.1	1078.7	1082.7
17.5°	1022.8	1033.4	1049.4	1070.7	1077.4
20°	1002.8	1014.8	1036.1	1060.1	1068.0
22.5°	981.5	994.8	1020.1	1048.1	1056.1
25°	957.5	972.2	1000.1	1029.4	1040.1
27.5°	930.9	946.9	977.5	1008.1	1017.4
30°	901.6	918.9	952.2	982.8	990.8
32.5°	872.3	889.6	924.2	953.5	962.8
35°	839.0	857.6	892.3	920.2	926.9
37.5°	803.0	821.7	856.3	884.3	886.9
40°	767.1	785.7	817.7	843.0	845.6
42.5°	729.8	747.1	776.4	797.7	800.4
45°	688.5	707.1	733.8	751.1	751.1
47.5°	647.2	665.9	688.5	700.5	700.5
50°	604.6	621.9	640.6	647.2	645.9
52.5°	562.0	578.0	593.9	595.3	592.6
55°	520.7	530.0	540.7	543.3	538.0
57.5°	475.4	483.4	490.1	486.1	482.1
60°	427.5	435.5	436.8	430.1	426.2
62.5°	380.9	387.5	387.5	376.9	370.2
65°	332.9	336.9	334.3	322.3	315.6
67.5°	287.7	290.3	285.0	273.0	262.4
70°	241.0	242.4	235.7	221.1	214.4
72.5°	198.4	199.8	191.8	174.5	166.5
75°	158.5	158.5	147.8	130.5	125.2
77.5°	118.5	122.5	110.5	101.2	101.2
80°	85.2	89.2	77.2	78.6	77.2
82.5°	55.9	59.9	55.9	55.9	55.9
85°	30.6	33.3	36.0	37.3	37.3
87.5°	9.3	16.0	17.3	18.6	21.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)