

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: P257282

Luminaire Tested: **D3X-WD-31L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
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-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 3000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2861.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

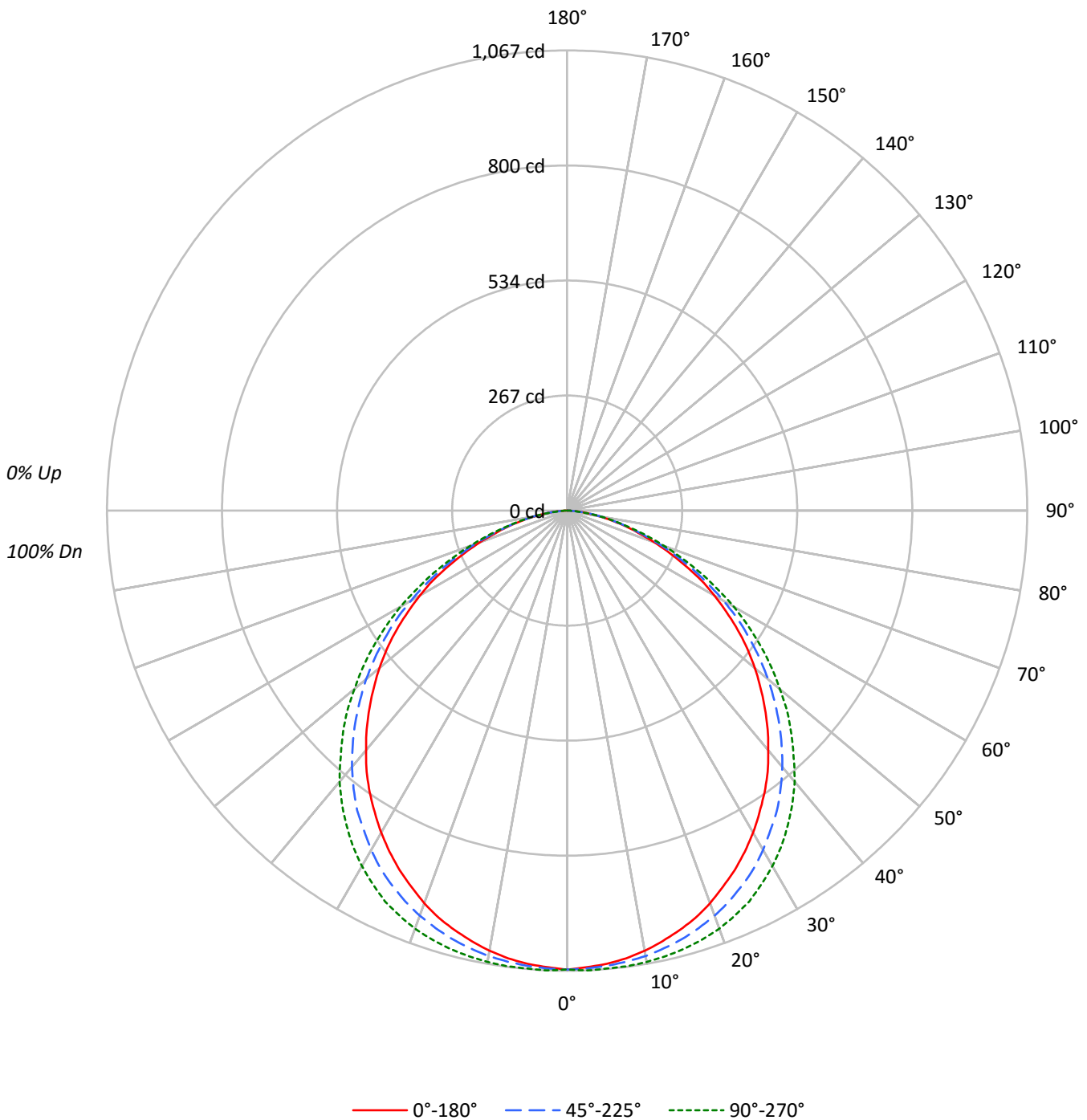
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	93	95	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	2864	2864	2864
5°	2850	2862	2879
10°	2832	2866	2904
15°	2806	2866	2930
20°	2774	2862	2955
25°	2730	2849	2968
30°	2680	2823	2958
35°	2621	2788	2929
40°	2548	2727	2884
45°	2468	2643	2801
50°	2379	2547	2695
55°	2269	2420	2572
60°	2122	2255	2404
65°	1922	2039	2167
70°	1696	1781	1878
75°	1457	1489	1553
80°	1170	1193	1216
85°	855	760	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	3.5
10°-20°	290.5	10.2
20°-30°	441.9	15.4
30°-40°	528.7	18.5
40°-50°	534.4	18.7
50°-60°	459.9	16.1
60°-70°	317.5	11.1
70°-80°	154.0	5.4
80°-90°	33.4	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°	833.2	29.1
0°-40°	1361.9	47.6
0°-60°	2356.3	82.4
0°-90°	2861.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2861.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1064	1064	1064	1064	1064	
5°	1055	1056	1060	1064	1066	100
15°	1007	1013	1029	1044	1052	284
25°	919	930	960	989	1000	423
35°	798	812	849	879	892	499
45°	648	661	695	724	736	500
55°	484	491	516	539	548	431
65°	302	306	320	334	340	300
75°	140	137	143	148	149	149
85°	28	28	25	25	25	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1064.2	1064.2	1064.2	1064.2	1064.2
2.5°	1059.6	1059.6	1062.6	1065.7	1067.3
5°	1054.9	1056.5	1059.6	1064.2	1065.7
7.5°	1047.2	1048.8	1054.9	1062.6	1065.7
10°	1036.5	1039.5	1048.8	1058.0	1062.6
12.5°	1022.6	1028.8	1039.5	1051.9	1058.0
15°	1007.2	1013.4	1028.8	1044.2	1051.9
17.5°	990.3	996.4	1014.9	1034.9	1042.6
20°	968.7	977.9	999.5	1022.6	1031.8
22.5°	944.1	956.4	981.0	1005.7	1016.4
25°	919.4	930.2	959.5	988.7	999.5
27.5°	891.7	904.0	936.4	965.6	976.4
30°	862.4	874.8	908.6	941.0	951.8
32.5°	830.1	845.5	877.8	911.7	924.0
35°	797.8	811.6	848.6	879.4	891.7
37.5°	763.9	776.2	813.2	845.5	857.8
40°	725.4	739.2	776.2	808.5	820.9
42.5°	688.4	702.3	736.1	767.0	777.7
45°	648.4	660.7	694.6	723.8	736.1
47.5°	608.3	622.2	651.4	680.7	693.0
50°	568.3	579.1	608.3	636.0	643.7
52.5°	526.7	535.9	562.1	586.8	597.5
55°	483.6	491.3	515.9	539.0	548.3
57.5°	437.4	446.6	469.7	486.7	497.4
60°	394.3	398.9	418.9	435.8	446.6
62.5°	351.1	352.7	368.1	385.0	391.2
65°	301.9	306.5	320.3	334.2	340.4
67.5°	257.2	261.8	272.6	283.4	288.0
70°	215.6	215.6	226.4	234.1	238.7
72.5°	174.0	175.6	183.3	187.9	192.5
75°	140.1	137.1	143.2	147.8	149.4
77.5°	104.7	103.2	107.8	109.3	112.4
80°	75.5	75.5	77.0	78.5	78.5
82.5°	49.3	49.3	50.8	47.7	46.2
85°	27.7	27.7	24.6	24.6	24.6
87.5°	9.2	9.2	9.2	10.8	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)