

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: P257284

Luminaire Tested: **D3X-WD-31L840-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257284
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-31L840-LD5-UNV-22-T1-STD
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF
Light Source: (126) 4000 CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2932.4 lumens
Efficiency: N/A
Efficacy: 110.2 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

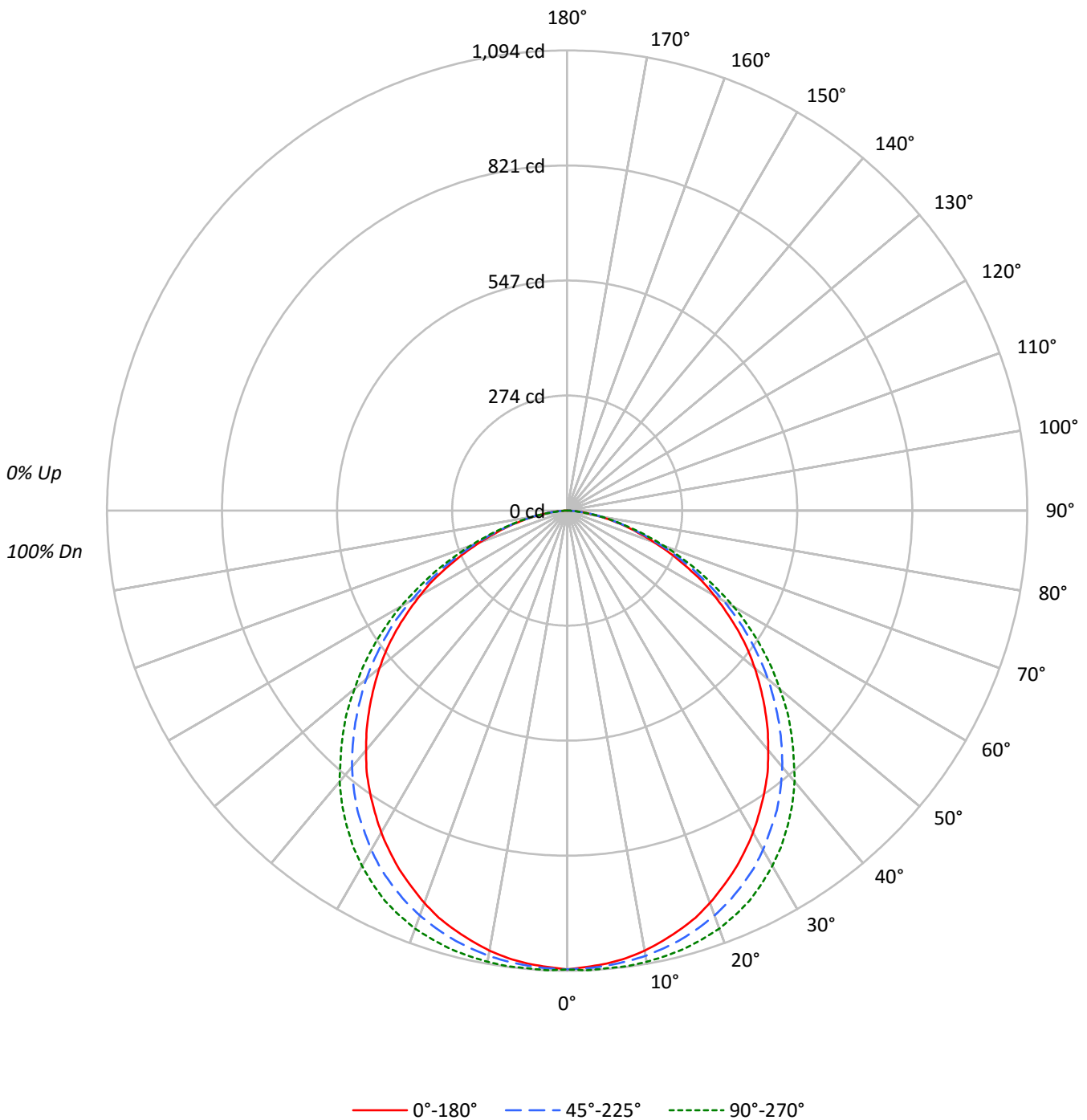
Input Watts (W): 26.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2935	2935	2935
5°	2921	2934	2951
10°	2903	2937	2976
15°	2876	2937	3003
20°	2843	2934	3028
25°	2798	2920	3042
30°	2747	2894	3031
35°	2686	2857	3002
40°	2611	2794	2955
45°	2529	2709	2871
50°	2438	2610	2762
55°	2325	2481	2636
60°	2175	2310	2463
65°	1970	2090	2221
70°	1739	1825	1925
75°	1493	1526	1592
80°	1198	1223	1247
85°	877	781	781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	3.5
10°-20°	297.7	10.2
20°-30°	452.9	15.4
30°-40°	541.8	18.5
40°-50°	547.8	18.7
50°-60°	471.4	16.1
60°-70°	325.4	11.1
70°-80°	157.8	5.4
80°-90°	34.2	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°	854.0	29.1
0°-40°	1395.8	47.6
0°-60°	2415.0	82.4
0°-90°	2932.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2932.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1081	1083	1086	1091	1092	103
15°	1032	1039	1054	1070	1078	291
25°	942	953	983	1013	1024	434
35°	818	832	870	901	914	511
45°	664	677	712	742	754	513
55°	496	504	529	552	562	442
65°	309	314	328	342	349	308
75°	144	140	147	152	153	152
85°	28	28	25	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.7	1090.7	1090.7	1090.7	1090.7
2.5°	1086.0	1086.0	1089.1	1092.3	1093.8
5°	1081.2	1082.8	1086.0	1090.7	1092.3
7.5°	1073.3	1074.9	1081.2	1089.1	1092.3
10°	1062.3	1065.4	1074.9	1084.4	1089.1
12.5°	1048.1	1054.4	1065.4	1078.1	1084.4
15°	1032.3	1038.6	1054.4	1070.2	1078.1
17.5°	1014.9	1021.2	1040.2	1060.7	1068.6
20°	992.8	1002.3	1024.4	1048.1	1057.5
22.5°	967.6	980.2	1005.5	1030.7	1041.8
25°	942.3	953.4	983.4	1013.4	1024.4
27.5°	913.9	926.5	959.7	989.7	1000.7
30°	883.9	896.5	931.3	964.4	975.5
32.5°	850.8	866.6	899.7	934.4	947.1
35°	817.6	831.8	869.7	901.3	913.9
37.5°	782.9	795.5	833.4	866.6	879.2
40°	743.4	757.6	795.5	828.7	841.3
42.5°	705.6	719.8	754.5	786.1	797.1
45°	664.5	677.1	711.9	741.9	754.5
47.5°	623.5	637.7	667.7	697.7	710.3
50°	582.4	593.5	623.5	651.9	659.8
52.5°	539.8	549.3	576.1	601.4	612.4
55°	495.6	503.5	528.8	552.4	561.9
57.5°	448.3	457.7	481.4	498.8	509.8
60°	404.1	408.8	429.3	446.7	457.7
62.5°	359.9	361.5	377.2	394.6	400.9
65°	309.4	314.1	328.3	342.5	348.8
67.5°	263.6	268.3	279.4	290.4	295.2
70°	221.0	221.0	232.0	239.9	244.7
72.5°	178.4	179.9	187.8	192.6	197.3
75°	143.6	140.5	146.8	151.5	153.1
77.5°	107.3	105.8	110.5	112.1	115.2
80°	77.3	77.3	78.9	80.5	80.5
82.5°	50.5	50.5	52.1	48.9	47.4
85°	28.4	28.4	25.3	25.3	25.3
87.5°	9.5	9.5	9.5	11.0	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)