

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: P257322

Luminaire Tested: **D3X-WD-31L940-LD5-UNV-14-T1-STD**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P257322
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-31L940-LD5-UNV-14-T1-STD
Description: CORELITE D3X 1X4 LED LUMINAIRE WITH ROUND PERF
Light Source: (112) 4000 CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2745.0 lumens
Efficiency: N/A
Efficacy: 89.7 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

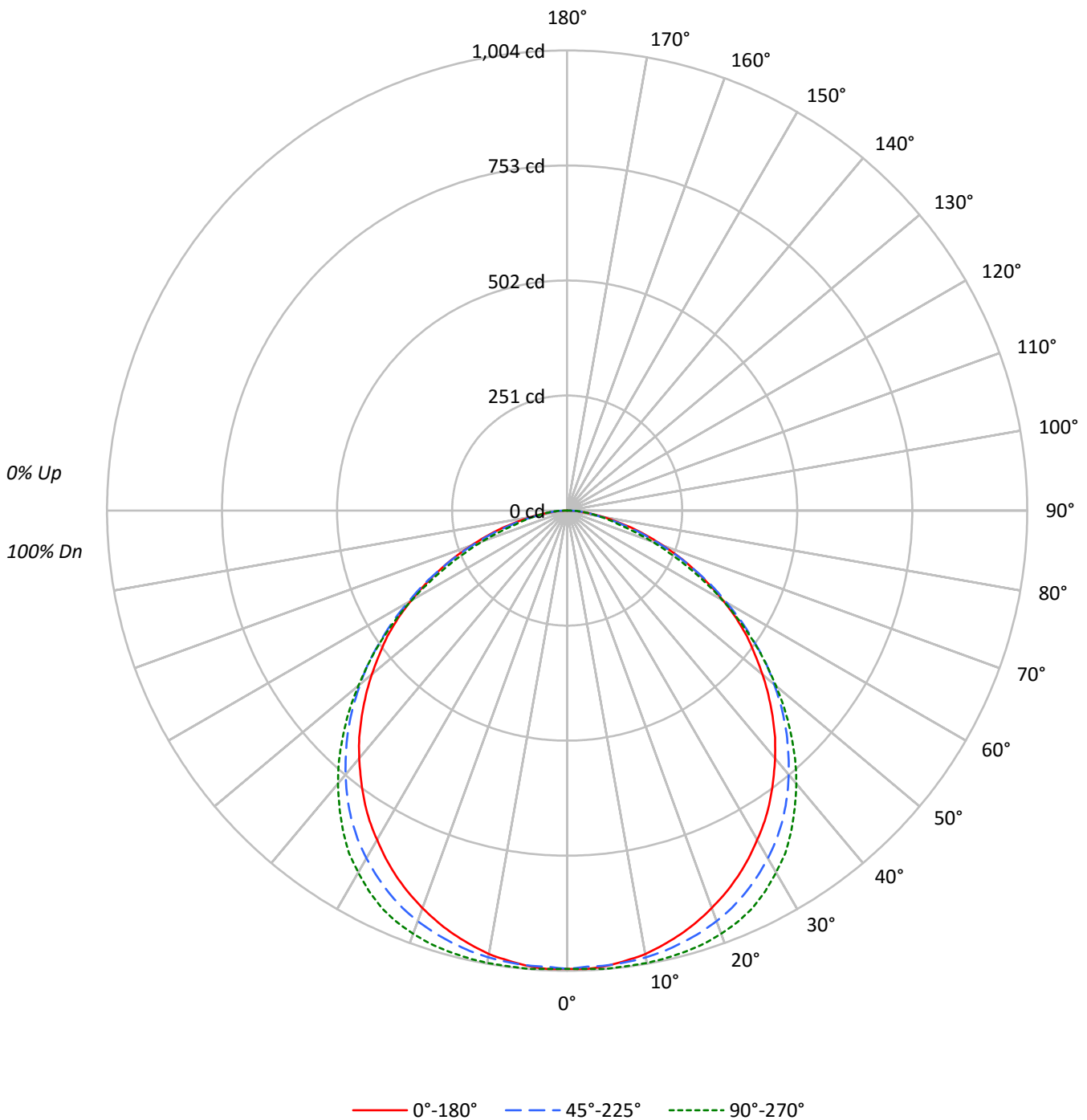
Input Watts (W): 30.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2691	2691	2691
5°	2694	2691	2711
10°	2685	2705	2739
15°	2666	2717	2775
20°	2642	2730	2814
25°	2616	2732	2841
30°	2577	2722	2833
35°	2536	2697	2802
40°	2479	2643	2733
45°	2411	2570	2630
50°	2329	2467	2488
55°	2248	2334	2322
60°	2117	2163	2110
65°	1950	1959	1849
70°	1745	1707	1552
75°	1516	1414	1198
80°	1215	1102	1102
85°	871	1022	1059



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.5
10°-20°	276.0	10.1
20°-30°	423.8	15.4
30°-40°	510.4	18.6
40°-50°	515.8	18.8
50°-60°	440.0	16.0
60°-70°	301.2	11.0
70°-80°	145.3	5.3
80°-90°	37.5	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°	794.9	29.0
0°-40°	1305.3	47.6
0°-60°	2261.1	82.4
0°-90°	2745.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2745.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1000	1000	1000	1000	1000	
5°	997	997	996	1002	1004	95
15°	957	964	975	992	996	270
25°	881	894	920	947	957	406
35°	772	789	821	847	853	482
45°	634	651	675	691	691	489
55°	479	488	498	500	495	427
65°	306	310	308	296	290	304
75°	146	146	136	120	115	155
85°	28	31	33	34	34	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	999.9	999.9	999.9	999.9	999.9
2.5°	1001.1	999.9	996.2	1001.1	1001.1
5°	997.4	997.4	996.2	1002.3	1003.5
7.5°	990.1	992.5	993.7	1001.1	1002.3
10°	982.7	985.2	990.1	999.9	1002.3
12.5°	970.5	975.4	983.9	997.4	999.9
15°	957.0	964.3	975.4	992.5	996.2
17.5°	941.1	950.9	965.6	985.2	991.3
20°	922.7	933.7	953.3	975.4	982.7
22.5°	903.1	915.3	938.6	964.3	971.7
25°	881.0	894.5	920.2	947.2	957.0
27.5°	856.5	871.2	899.4	927.6	936.2
30°	829.5	845.5	876.1	904.3	911.6
32.5°	802.6	818.5	850.4	877.3	885.9
35°	772.0	789.1	821.0	846.7	852.8
37.5°	738.9	756.0	787.9	813.6	816.1
40°	705.8	722.9	752.4	775.6	778.1
42.5°	671.5	687.4	714.4	734.0	736.4
45°	633.5	650.6	675.2	691.1	691.1
47.5°	595.5	612.7	633.5	644.5	644.5
50°	556.3	572.2	589.4	595.5	594.3
52.5°	517.1	531.8	546.5	547.7	545.3
55°	479.1	487.7	497.5	499.9	495.0
57.5°	437.4	444.8	450.9	447.2	443.6
60°	393.3	400.7	401.9	395.8	392.1
62.5°	350.4	356.6	356.6	346.8	340.6
65°	306.3	310.0	307.6	296.5	290.4
67.5°	264.7	267.1	262.2	251.2	241.4
70°	221.8	223.0	216.9	203.4	197.3
72.5°	182.6	183.8	176.4	160.5	153.2
75°	145.8	145.8	136.0	120.1	115.2
77.5°	109.1	112.7	101.7	93.1	93.1
80°	78.4	82.1	71.1	72.3	71.1
82.5°	51.5	55.1	51.5	51.5	51.5
85°	28.2	30.6	33.1	34.3	34.3
87.5°	8.6	14.7	15.9	17.2	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)