

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: P257422

Luminaire Tested: **D3X-WG-40L940-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-40L940-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH RECTANGULAR PERF  
Light Source: (126) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3366.7 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

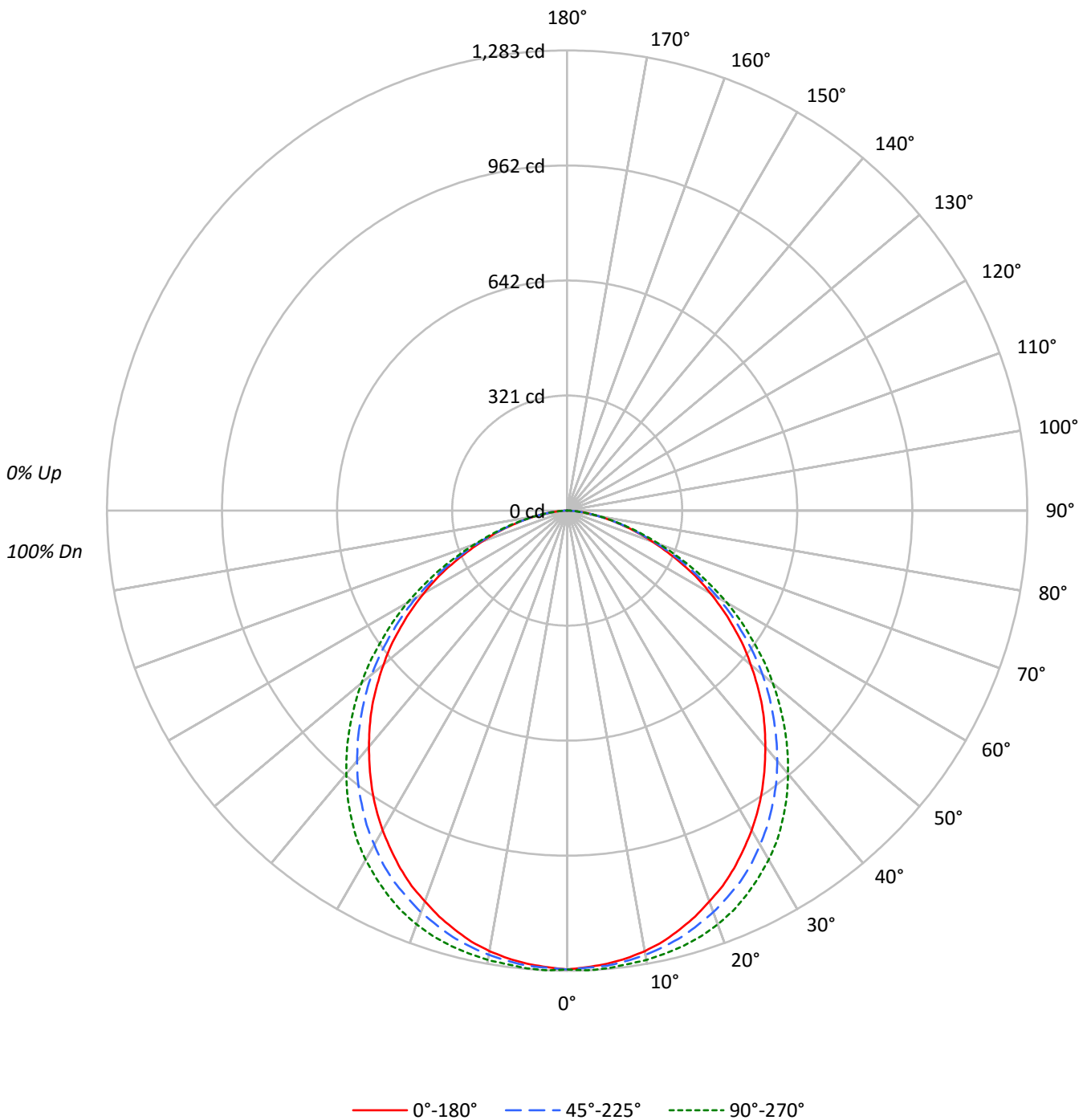
Input Watts (W): 35.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	3443	3443	3443
5°	3427	3441	3461
10°	3408	3437	3476
15°	3370	3430	3500
20°	3321	3413	3515
25°	3268	3390	3512
30°	3198	3342	3492
35°	3117	3281	3446
40°	3019	3201	3365
45°	2924	3094	3264
50°	2798	2977	3134
55°	2657	2808	2959
60°	2481	2616	2770
65°	2264	2367	2503
70°	1982	2067	2151
75°	1691	1728	1802
80°	1358	1384	1412
85°	994	939	883



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	3.6
10°-20°	347.6	10.3
20°-30°	525.4	15.6
30°-40°	624.1	18.5
40°-50°	626.6	18.6
50°-60°	535.2	15.9
60°-70°	368.7	11.0
70°-80°	178.8	5.3
80°-90°	39.1	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°	994.1	29.5
0°-40°	1618.2	48.1
0°-60°	2780.0	82.6
0°-90°	3366.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3366.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1269	1269	1274	1278	1281	120
15°	1210	1215	1231	1247	1256	341
25°	1101	1110	1142	1172	1183	507
35°	949	963	999	1036	1049	593
45°	768	779	813	847	858	591
55°	566	575	599	624	631	506
65°	356	356	372	388	393	352
75°	163	159	166	170	173	175
85°	32	32	30	29	29	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1279.4	1279.4	1279.4	1279.4	1279.4
2.5°	1274.0	1274.0	1275.8	1281.2	1283.0
5°	1268.7	1268.7	1274.0	1277.6	1281.2
7.5°	1259.7	1261.5	1266.9	1274.0	1275.8
10°	1247.2	1249.0	1258.0	1266.9	1272.2
12.5°	1231.2	1234.7	1245.4	1259.7	1265.1
15°	1209.7	1215.1	1231.2	1247.2	1256.2
17.5°	1186.5	1193.6	1211.5	1234.7	1243.7
20°	1159.7	1168.6	1191.8	1216.9	1227.6
22.5°	1132.9	1140.0	1166.8	1195.4	1207.9
25°	1100.7	1109.6	1141.8	1172.2	1182.9
27.5°	1065.0	1077.5	1111.4	1143.6	1154.3
30°	1029.2	1040.0	1075.7	1111.4	1123.9
32.5°	989.9	1000.6	1040.0	1075.7	1090.0
35°	948.8	963.1	998.9	1036.4	1048.9
37.5°	904.2	920.2	957.8	989.9	1006.0
40°	859.5	873.8	911.3	945.3	957.8
42.5°	814.8	827.3	863.1	898.8	909.5
45°	768.4	779.1	813.0	847.0	857.7
47.5°	718.3	730.8	763.0	791.6	804.1
50°	668.3	680.8	711.2	738.0	748.7
52.5°	620.0	627.2	655.8	680.8	693.3
55°	566.4	575.4	598.6	623.6	630.8
57.5°	514.6	520.0	543.2	564.6	575.4
60°	461.0	464.6	486.0	502.1	514.6
62.5°	411.0	411.0	427.1	444.9	452.1
65°	355.6	355.6	371.7	387.7	393.1
67.5°	302.0	305.6	316.3	328.8	332.4
70°	251.9	251.9	262.7	271.6	273.4
72.5°	207.3	205.5	210.9	218.0	221.6
75°	162.6	159.0	166.2	169.8	173.3
77.5°	123.3	121.5	125.1	128.7	128.7
80°	87.6	85.8	89.3	89.3	91.1
82.5°	57.2	59.0	59.0	57.2	55.4
85°	32.2	32.2	30.4	28.6	28.6
87.5°	10.7	10.7	10.7	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)