

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: P257305

Luminaire Tested: **D3X-WD-44L940-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257305  
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-44L940-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF  
Light Source: (126) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3624.6 lumens  
Efficiency: N/A  
Efficacy: 91.5 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

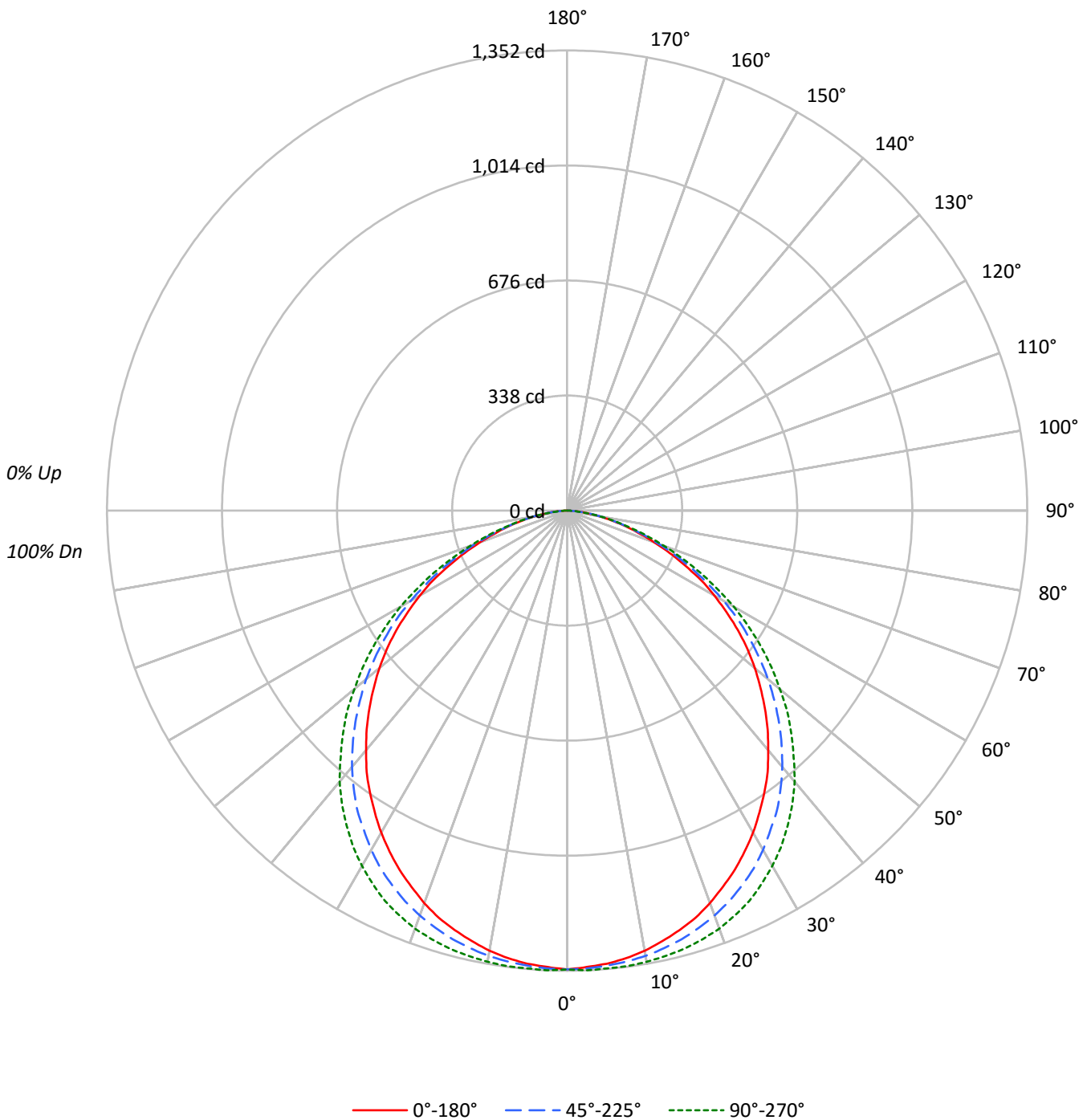
Input Watts (W): 39.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3628	3628	3628
5°	3610	3626	3647
10°	3588	3630	3678
15°	3555	3631	3712
20°	3514	3626	3743
25°	3458	3609	3760
30°	3395	3577	3746
35°	3320	3531	3711
40°	3228	3454	3653
45°	3126	3349	3549
50°	3014	3226	3414
55°	2874	3066	3259
60°	2688	2856	3045
65°	2435	2584	2746
70°	2149	2257	2379
75°	1845	1886	1967
80°	1481	1512	1542
85°	1084	963	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.8	3.5
10°-20°	368.0	10.2
20°-30°	559.8	15.4
30°-40°	669.7	18.5
40°-50°	677.1	18.7
50°-60°	582.7	16.1
60°-70°	402.3	11.1
70°-80°	195.0	5.4
80°-90°	42.3	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°	1055.6	29.1
0°-40°	1725.3	47.6
0°-60°	2985.0	82.4
0°-90°	3624.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1336	1338	1342	1348	1350	127
15°	1276	1284	1303	1323	1332	360
25°	1165	1178	1216	1252	1266	536
35°	1011	1028	1075	1114	1130	632
45°	821	837	880	917	933	634
55°	613	622	654	683	695	546
65°	382	388	406	423	431	381
75°	178	174	181	187	189	188
85°	35	35	31	31	31	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1348.1	1348.1	1348.1	1348.1	1348.1
2.5°	1342.3	1342.3	1346.2	1350.1	1352.0
5°	1336.4	1338.4	1342.3	1348.1	1350.1
7.5°	1326.7	1328.6	1336.4	1346.2	1350.1
10°	1313.0	1316.9	1328.6	1340.3	1346.2
12.5°	1295.5	1303.3	1316.9	1332.5	1340.3
15°	1276.0	1283.8	1303.3	1322.8	1332.5
17.5°	1254.5	1262.3	1285.7	1311.1	1320.8
20°	1227.2	1238.9	1266.2	1295.5	1307.2
22.5°	1196.0	1211.6	1242.8	1274.0	1287.7
25°	1164.8	1178.4	1215.5	1252.5	1266.2
27.5°	1129.6	1145.2	1186.2	1223.3	1236.9
30°	1092.6	1108.2	1151.1	1192.1	1205.7
32.5°	1051.6	1071.1	1112.1	1155.0	1170.6
35°	1010.6	1028.2	1075.0	1114.0	1129.6
37.5°	967.7	983.3	1030.1	1071.1	1086.7
40°	918.9	936.5	983.3	1024.3	1039.9
42.5°	872.1	889.7	932.6	971.6	985.3
45°	821.4	837.0	879.9	917.0	932.6
47.5°	770.6	788.2	825.3	862.3	878.0
50°	719.9	733.6	770.6	805.8	815.5
52.5°	667.2	678.9	712.1	743.3	757.0
55°	612.6	622.4	653.6	682.9	694.6
57.5°	554.1	565.8	595.1	616.5	630.2
60°	499.5	505.3	530.7	552.1	565.8
62.5°	444.8	446.8	466.3	487.8	495.6
65°	382.4	388.3	405.8	423.4	431.2
67.5°	325.8	331.7	345.3	359.0	364.8
70°	273.1	273.1	286.8	296.6	302.4
72.5°	220.5	222.4	232.2	238.0	243.9
75°	177.5	173.6	181.4	187.3	189.2
77.5°	132.7	130.7	136.6	138.5	142.4
80°	95.6	95.6	97.6	99.5	99.5
82.5°	62.4	62.4	64.4	60.5	58.5
85°	35.1	35.1	31.2	31.2	31.2
87.5°	11.7	11.7	11.7	13.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)