

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: P258375

Luminaire Tested: **D3X-WD-42L940-LD5-UNV-24-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P258375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-42L940-LD5-UNV-24-T1-STD  
Description: CORELITE D3X 2X4 LED LUMINAIRE WITH ROUND PERF  
Light Source: (252) 4000 CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3394.4 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

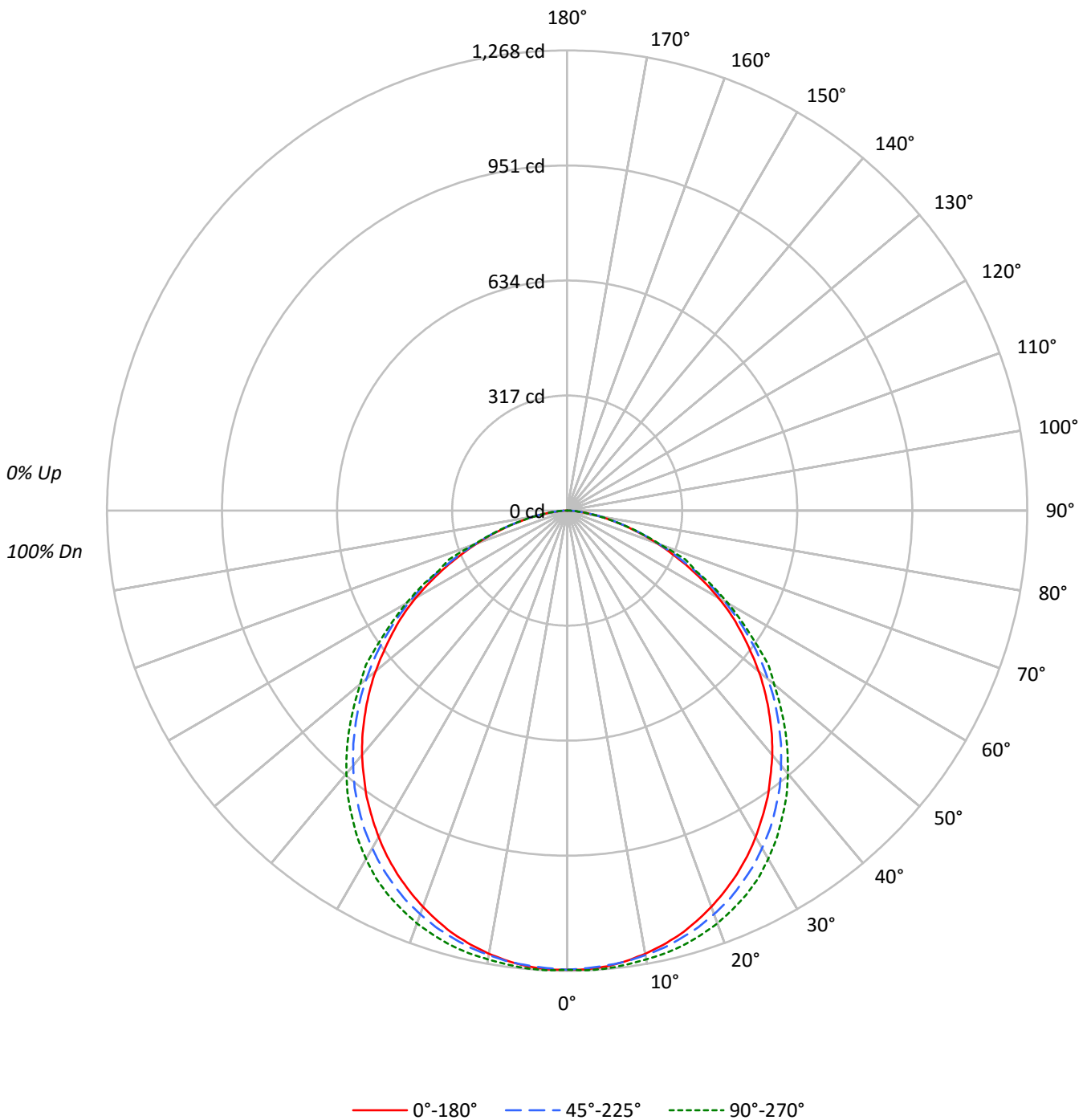
Input Watts (W): 31.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	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	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	1703	1703	1703
5°	1702	1699	1711
10°	1694	1699	1716
15°	1683	1698	1727
20°	1664	1695	1733
25°	1642	1685	1734
30°	1614	1669	1722
35°	1582	1644	1696
40°	1544	1611	1662
45°	1497	1567	1615
50°	1443	1512	1558
55°	1377	1440	1483
60°	1298	1347	1380
65°	1179	1217	1241
70°	1035	1059	1073
75°	874	886	893
80°	698	707	689
85°	469	489	469



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.9	3.5
10°-20°	344.9	10.2
20°-30°	523.3	15.4
30°-40°	624.7	18.4
40°-50°	632.4	18.6
50°-60°	546.7	16.1
60°-70°	378.9	11.2
70°-80°	183.3	5.4
80°-90°	40.3	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°	988.1	29.1
0°-40°	1612.8	47.5
0°-60°	2791.9	82.2
0°-90°	3394.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3394.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1265	1265	1265	1265	1265	
5°	1260	1259	1258	1264	1267	120
15°	1208	1211	1219	1234	1240	340
25°	1106	1113	1135	1158	1168	509
35°	963	972	1001	1027	1033	602
45°	787	798	823	844	849	607
55°	587	593	614	639	632	525
65°	370	374	382	388	390	366
75°	168	169	170	169	172	180
85°	30	33	32	30	30	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1265.4	1265.4	1265.4	1265.4	1265.4
2.5°	1265.4	1264.2	1261.8	1265.4	1267.9
5°	1260.5	1259.3	1258.1	1264.2	1266.6
7.5°	1252.0	1252.0	1253.2	1259.3	1261.8
10°	1239.8	1241.1	1243.5	1253.2	1255.7
12.5°	1225.2	1227.7	1233.8	1244.7	1249.6
15°	1208.2	1210.6	1219.1	1233.8	1239.8
17.5°	1186.3	1191.1	1203.3	1220.4	1226.4
20°	1161.9	1168.0	1183.8	1203.3	1210.6
22.5°	1135.1	1141.2	1161.9	1182.6	1189.9
25°	1105.9	1113.2	1135.1	1158.2	1168.0
27.5°	1074.2	1082.7	1107.1	1131.4	1141.2
30°	1038.9	1048.6	1074.2	1099.8	1108.3
32.5°	1001.1	1010.9	1040.1	1064.5	1073.0
35°	963.4	971.9	1001.1	1026.7	1032.8
37.5°	920.7	930.5	962.2	984.1	992.6
40°	879.3	889.1	917.1	939.0	946.3
42.5°	834.3	844.0	872.0	892.7	898.8
45°	786.8	797.7	823.3	844.0	848.9
47.5°	739.3	747.8	774.6	792.9	796.5
50°	689.3	697.9	722.2	740.5	744.1
52.5°	637.0	650.4	669.9	683.3	699.1
55°	587.0	593.1	613.8	639.4	632.1
57.5°	537.1	540.8	557.8	568.8	571.2
60°	482.3	487.2	500.6	506.7	512.7
62.5°	425.1	428.7	444.5	450.6	453.1
65°	370.2	373.9	382.4	388.5	389.7
67.5°	314.2	317.9	325.2	330.1	352.0
70°	263.1	265.5	269.2	278.9	272.8
72.5°	214.4	215.6	219.2	219.2	220.4
75°	168.1	169.3	170.5	169.3	171.7
77.5°	125.4	127.9	129.1	127.9	126.7
80°	90.1	92.6	91.3	88.9	88.9
82.5°	58.5	59.7	58.5	57.2	57.2
85°	30.4	32.9	31.7	30.4	30.4
87.5°	11.0	12.2	13.4	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)