

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: P257398

Luminaire Tested: **D3X-WG-20L940-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P257398  
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-20L940-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: 1705.9 lumens  
Efficiency: N/A  
Efficacy: 103.4 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

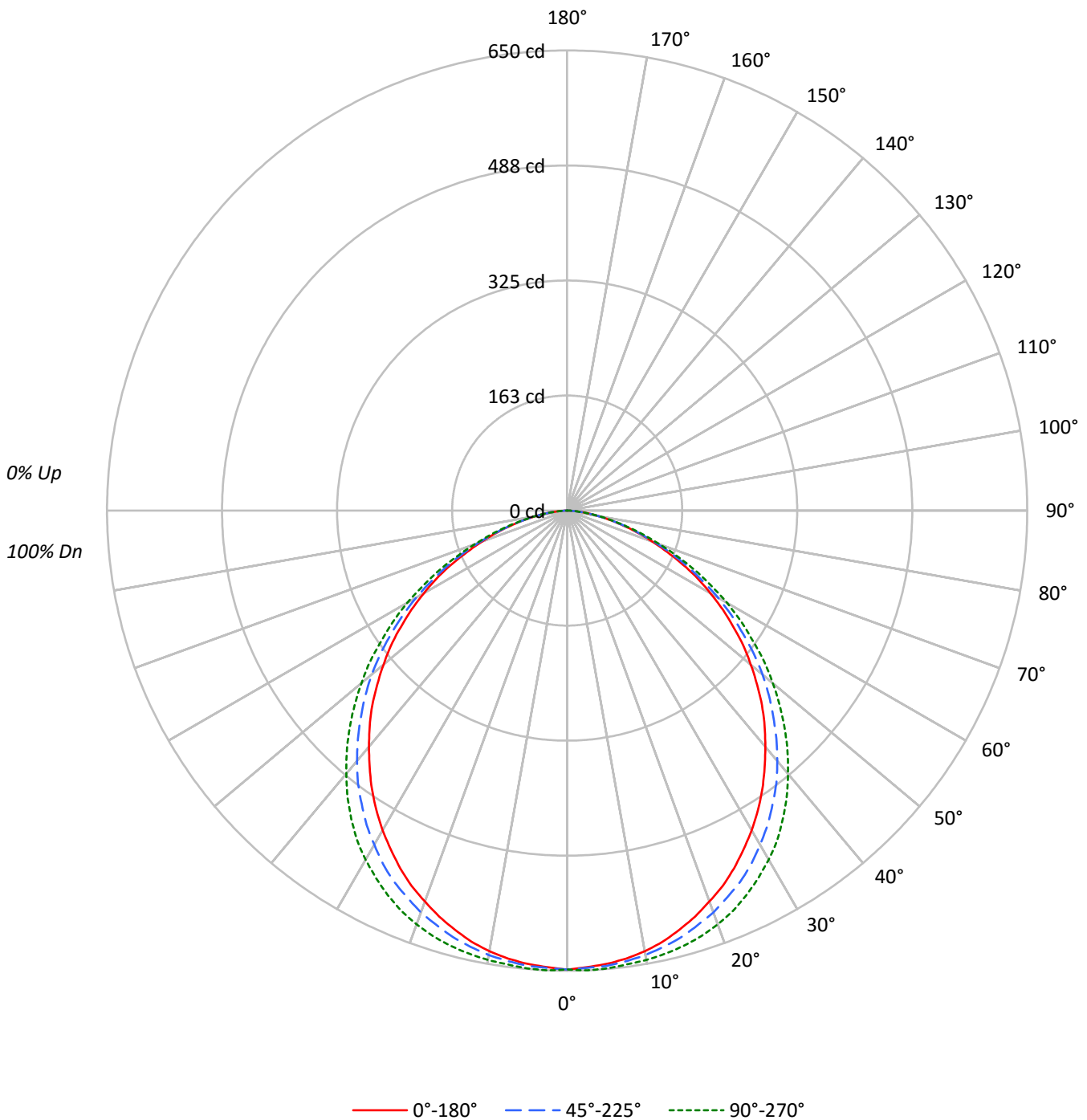
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1745	1745	1745
5°	1736	1744	1754
10°	1727	1742	1761
15°	1708	1738	1773
20°	1683	1729	1781
25°	1656	1718	1780
30°	1620	1693	1770
35°	1579	1663	1746
40°	1530	1622	1705
45°	1482	1568	1654
50°	1418	1508	1588
55°	1346	1423	1499
60°	1257	1326	1404
65°	1147	1199	1268
70°	1005	1047	1090
75°	857	875	913
80°	688	702	716
85°	503	475	448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.4	3.6
10°-20°	176.1	10.3
20°-30°	266.2	15.6
30°-40°	316.2	18.5
40°-50°	317.5	18.6
50°-60°	271.2	15.9
60°-70°	186.8	11.0
70°-80°	90.6	5.3
80°-90°	19.8	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°	503.7	29.5
0°-40°	819.9	48.1
0°-60°	1408.6	82.6
0°-90°	1705.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1705.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	648	648	648	648	648	
5°	643	643	646	647	649	61
15°	613	616	624	632	636	173
25°	558	562	578	594	599	257
35°	481	488	506	525	532	300
45°	389	395	412	429	435	300
55°	287	292	303	316	320	257
65°	180	180	188	196	199	178
75°	82	81	84	86	88	89
85°	16	16	15	14	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	648.3	648.3	648.3	648.3	648.3
2.5°	645.5	645.5	646.5	649.2	650.1
5°	642.8	642.8	645.5	647.4	649.2
7.5°	638.3	639.2	641.9	645.5	646.5
10°	632.0	632.9	637.4	641.9	644.6
12.5°	623.8	625.6	631.1	638.3	641.0
15°	613.0	615.7	623.8	632.0	636.5
17.5°	601.2	604.8	613.9	625.6	630.2
20°	587.6	592.1	603.9	616.6	622.0
22.5°	574.0	577.6	591.2	605.7	612.0
25°	557.7	562.3	578.5	593.9	599.4
27.5°	539.6	546.0	563.2	579.5	584.9
30°	521.5	526.9	545.0	563.2	569.5
32.5°	501.6	507.0	526.9	545.0	552.3
35°	480.8	488.0	506.1	525.1	531.5
37.5°	458.1	466.3	485.3	501.6	509.7
40°	435.5	442.7	461.8	479.0	485.3
42.5°	412.9	419.2	437.3	455.4	460.8
45°	389.3	394.8	412.0	429.2	434.6
47.5°	364.0	370.3	386.6	401.1	407.4
50°	338.6	345.0	360.3	373.9	379.4
52.5°	314.2	317.8	332.3	345.0	351.3
55°	287.0	291.5	303.3	316.0	319.6
57.5°	260.8	263.5	275.2	286.1	291.5
60°	233.6	235.4	246.3	254.4	260.8
62.5°	208.2	208.2	216.4	225.4	229.1
65°	180.2	180.2	188.3	196.5	199.2
67.5°	153.0	154.8	160.3	166.6	168.4
70°	127.7	127.7	133.1	137.6	138.5
72.5°	105.0	104.1	106.8	110.5	112.3
75°	82.4	80.6	84.2	86.0	87.8
77.5°	62.5	61.6	63.4	65.2	65.2
80°	44.4	43.5	45.3	45.3	46.2
82.5°	29.0	29.9	29.9	29.0	28.1
85°	16.3	16.3	15.4	14.5	14.5
87.5°	5.4	5.4	5.4	6.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)