

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: G3-1806-819-5

Luminaire Tested: **D3X-WD-20L830-LD5-UNV-22-T1-STD**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: G3-1806-819-5  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-20L830-LD5-UNV-22-T1-STD  
Description: CORELITE D3X 2X2 LED LUMINAIRE WITH ROUND PERF  
Light Source: (126) 3000 CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1857.8 lumens  
Efficiency: N/A  
Efficacy: 112.6 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

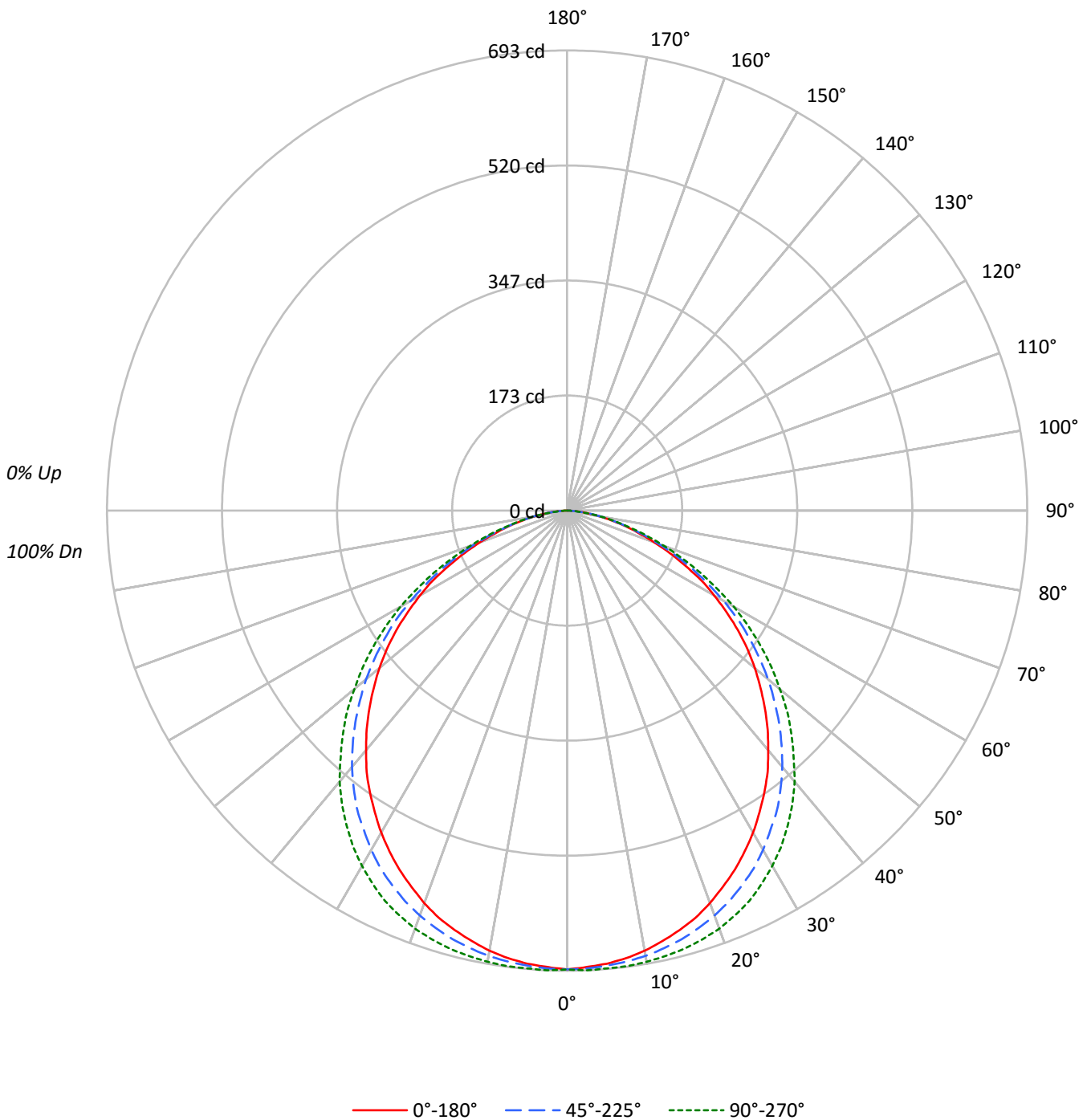
Input Watts (W): 16.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1859	1859	1859
5°	1850	1858	1869
10°	1839	1861	1885
15°	1822	1861	1903
20°	1801	1859	1919
25°	1773	1850	1927
30°	1740	1833	1920
35°	1702	1810	1902
40°	1655	1770	1872
45°	1602	1716	1819
50°	1545	1654	1750
55°	1473	1572	1670
60°	1378	1464	1561
65°	1248	1324	1407
70°	1102	1157	1220
75°	946	967	1009
80°	759	775	790
85°	556	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.5	3.5
10°-20°	188.6	10.2
20°-30°	286.9	15.4
30°-40°	343.3	18.5
40°-50°	347.0	18.7
50°-60°	298.6	16.1
60°-70°	206.2	11.1
70°-80°	100.0	5.4
80°-90°	21.7	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°	541.0	29.1
0°-40°	884.3	47.6
0°-60°	1530.0	82.4
0°-90°	1857.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1857.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	691	691	691	691	691	
5°	685	686	688	691	692	65
15°	654	658	668	678	683	184
25°	597	604	623	642	649	275
35°	518	527	551	571	579	324
45°	421	429	451	470	478	325
55°	314	319	335	350	356	280
65°	196	199	208	217	221	195
75°	91	89	93	96	97	97
85°	18	18	16	16	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	691	691	691	691	691
2.5°	688	688	690	692	693
5°	685	686	688	691	692
7.5°	680	681	685	690	692
10°	673	675	681	687	690
12.5°	664	668	675	683	687
15°	654	658	668	678	683
17.5°	643	647	659	672	677
20°	629	635	649	664	670
22.5°	613	621	637	653	660
25°	597	604	623	642	649
27.5°	579	587	608	627	634
30°	560	568	590	611	618
32.5°	539	549	570	592	600
35°	518	527	551	571	579
37.5°	496	504	528	549	557
40°	471	480	504	525	533
42.5°	447	456	478	498	505
45°	421	429	451	470	478
47.5°	395	404	423	442	450
50°	369	376	395	413	418
52.5°	342	348	365	381	388
55°	314	319	335	350	356
57.5°	284	290	305	316	323
60°	256	259	272	283	290
62.5°	228	229	239	250	254
65°	196	199	208	217	221
67.5°	167	170	177	184	187
70°	140	140	147	152	155
72.5°	113	114	119	122	125
75°	91	89	93	96	97
77.5°	68	67	70	71	73
80°	49	49	50	51	51
82.5°	32	32	33	31	30
85°	18	18	16	16	16
87.5°	6	6	6	7	6
90°	0	0	0	0	0

(END OF REPORT)