

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: P298002

Luminaire Tested: **D3X-WD-20L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298002  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (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-20L82765-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1853.0 lumens  
Efficiency: N/A  
Efficacy: 118.8 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

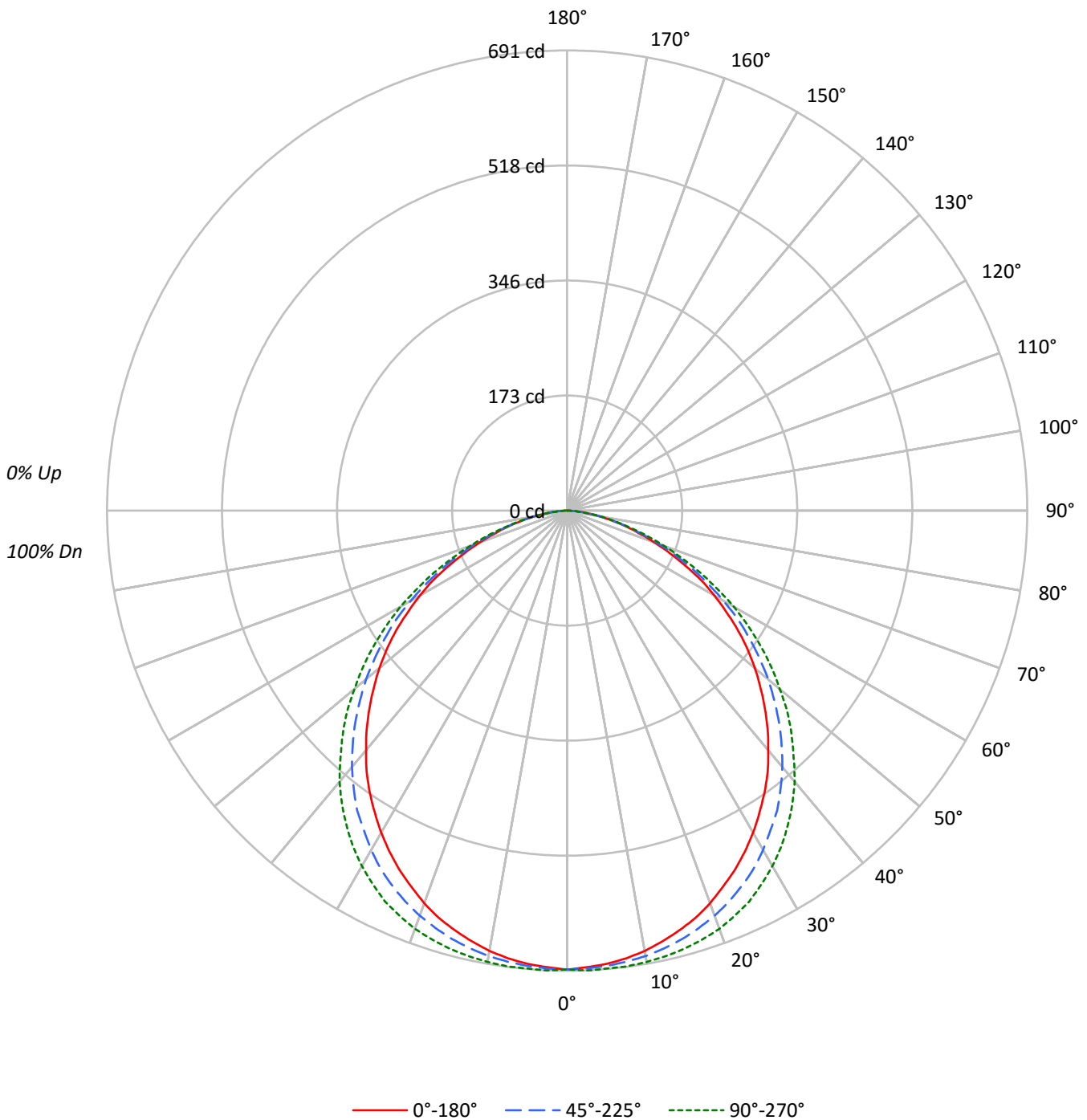
Input Watts (W): 15.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1855	1855	1855
5°	1845	1854	1864
10°	1834	1856	1881
15°	1817	1856	1898
20°	1797	1854	1914
25°	1768	1845	1922
30°	1735	1829	1915
35°	1697	1805	1897
40°	1650	1766	1867
45°	1598	1712	1815
50°	1541	1649	1745
55°	1469	1567	1666
60°	1374	1460	1556
65°	1245	1321	1403
70°	1098	1153	1216
75°	944	965	1005
80°	758	773	789
85°	556	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.3	3.5
10°-20°	188.1	10.2
20°-30°	286.2	15.4
30°-40°	342.4	18.5
40°-50°	346.1	18.7
50°-60°	297.9	16.1
60°-70°	205.6	11.1
70°-80°	99.7	5.4
80°-90°	21.6	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°	539.6	29.1
0°-40°	882.0	47.6
0°-60°	1526.0	82.4
0°-90°	1853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1853.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	689	689	689	689	689	
5°	683	684	686	689	690	65
15°	652	656	666	676	681	184
25°	596	602	621	640	647	274
35°	517	526	550	570	578	323
45°	420	428	450	469	477	324
55°	313	318	334	349	355	279
65°	196	198	208	216	220	195
75°	91	89	93	96	97	96
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°	689.2	689.2	689.2	689.2	689.2
2.5°	686.2	686.2	688.2	690.2	691.2
5°	683.2	684.2	686.2	689.2	690.2
7.5°	678.2	679.2	683.2	688.2	690.2
10°	671.3	673.2	679.2	685.2	688.2
12.5°	662.3	666.3	673.2	681.2	685.2
15°	652.3	656.3	666.3	676.2	681.2
17.5°	641.3	645.3	657.3	670.3	675.2
20°	627.4	633.4	647.3	662.3	668.3
22.5°	611.4	619.4	635.3	651.3	658.3
25°	595.5	602.4	621.4	640.3	647.3
27.5°	577.5	585.5	606.4	625.4	632.4
30°	558.5	566.5	588.5	609.4	616.4
32.5°	537.6	547.6	568.5	590.5	598.4
35°	516.7	525.6	549.6	569.5	577.5
37.5°	494.7	502.7	526.6	547.6	555.6
40°	469.8	478.8	502.7	523.6	531.6
42.5°	445.8	454.8	476.8	496.7	503.7
45°	419.9	427.9	449.8	468.8	476.8
47.5°	394.0	403.0	421.9	440.9	448.8
50°	368.0	375.0	394.0	411.9	416.9
52.5°	341.1	347.1	364.1	380.0	387.0
55°	313.2	318.2	334.1	349.1	355.1
57.5°	283.3	289.2	304.2	315.2	322.2
60°	255.3	258.3	271.3	282.3	289.2
62.5°	227.4	228.4	238.4	249.4	253.3
65°	195.5	198.5	207.5	216.4	220.4
67.5°	166.6	169.6	176.5	183.5	186.5
70°	139.6	139.6	146.6	151.6	154.6
72.5°	112.7	113.7	118.7	121.7	124.7
75°	90.8	88.8	92.8	95.8	96.7
77.5°	67.8	66.8	69.8	70.8	72.8
80°	48.9	48.9	49.9	50.9	50.9
82.5°	31.9	31.9	32.9	30.9	29.9
85°	18.0	18.0	16.0	16.0	16.0
87.5°	6.0	6.0	6.0	7.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)