

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: P298169

Luminaire Tested: **D3X-WG-20L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298169  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-20L82765-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1838.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 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

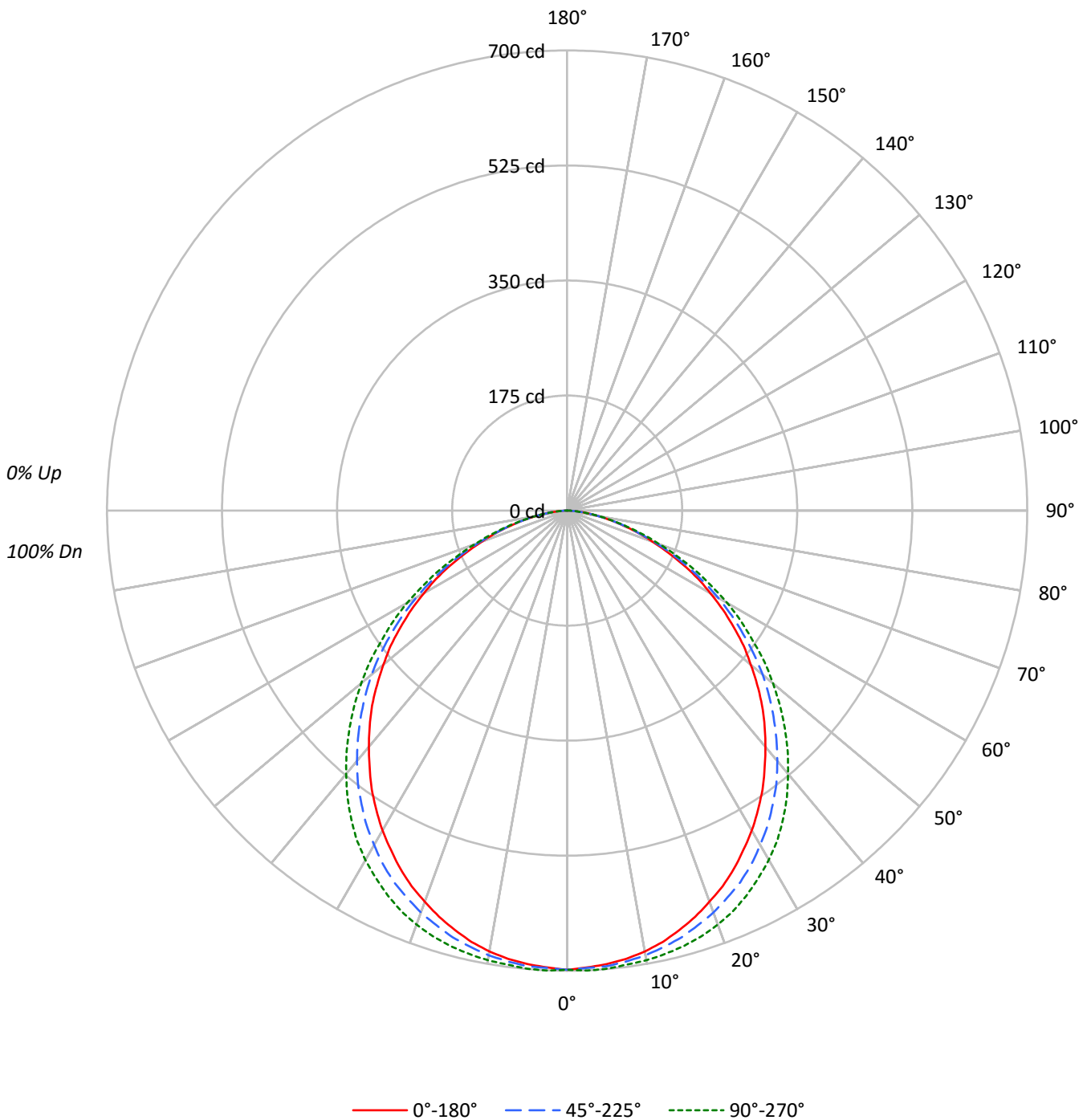
Input Watts (W): 15.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1880	1880	1880
5°	1871	1879	1890
10°	1861	1877	1898
15°	1840	1872	1911
20°	1813	1863	1919
25°	1784	1851	1917
30°	1746	1825	1907
35°	1702	1791	1881
40°	1648	1748	1837
45°	1596	1689	1782
50°	1527	1626	1711
55°	1451	1533	1616
60°	1355	1428	1512
65°	1236	1292	1366
70°	1083	1128	1175
75°	923	943	984
80°	741	756	772
85°	543	513	482



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.1	3.6
10°-20°	189.8	10.3
20°-30°	286.9	15.6
30°-40°	340.7	18.5
40°-50°	342.1	18.6
50°-60°	292.2	15.9
60°-70°	201.3	11.0
70°-80°	97.6	5.3
80°-90°	21.4	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°	542.7	29.5
0°-40°	883.5	48.1
0°-60°	1517.7	82.6
0°-90°	1838.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1838.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	698	698	698	698	698	
5°	693	693	696	698	700	66
15°	660	663	672	681	686	186
25°	601	606	623	640	646	277
35°	518	526	545	566	573	324
45°	420	425	444	462	468	323
55°	309	314	327	340	344	276
65°	194	194	203	212	215	192
75°	89	87	91	93	95	95
85°	18	18	17	16	16	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	698.5	698.5	698.5	698.5	698.5
2.5°	695.6	695.6	696.5	699.5	700.4
5°	692.6	692.6	695.6	697.5	699.5
7.5°	687.8	688.7	691.7	695.6	696.5
10°	680.9	681.9	686.8	691.7	694.6
12.5°	672.1	674.1	679.9	687.8	690.7
15°	660.4	663.4	672.1	680.9	685.8
17.5°	647.8	651.7	661.4	674.1	679.0
20°	633.1	638.0	650.7	664.3	670.2
22.5°	618.5	622.4	637.0	652.6	659.5
25°	600.9	605.8	623.4	640.0	645.8
27.5°	581.4	588.2	606.8	624.3	630.2
30°	561.9	567.8	587.3	606.8	613.6
32.5°	540.4	546.3	567.8	587.3	595.1
35°	518.0	525.8	545.3	565.8	572.6
37.5°	493.6	502.4	522.9	540.4	549.2
40°	469.2	477.0	497.5	516.1	522.9
42.5°	444.8	451.7	471.2	490.7	496.5
45°	419.5	425.3	443.9	462.4	468.3
47.5°	392.2	399.0	416.6	432.2	439.0
50°	364.8	371.7	388.3	402.9	408.7
52.5°	338.5	342.4	358.0	371.7	378.5
55°	309.2	314.1	326.8	340.5	344.4
57.5°	281.0	283.9	296.6	308.3	314.1
60°	251.7	253.6	265.3	274.1	281.0
62.5°	224.4	224.4	233.2	242.9	246.8
65°	194.1	194.1	202.9	211.7	214.6
67.5°	164.9	166.8	172.7	179.5	181.4
70°	137.6	137.6	143.4	148.3	149.3
72.5°	113.2	112.2	115.1	119.0	121.0
75°	88.8	86.8	90.7	92.7	94.6
77.5°	67.3	66.3	68.3	70.2	70.2
80°	47.8	46.8	48.8	48.8	49.8
82.5°	31.2	32.2	32.2	31.2	30.2
85°	17.6	17.6	16.6	15.6	15.6
87.5°	5.9	5.9	5.9	6.8	6.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)