

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: P297969

Luminaire Tested: **D3X-WD-20L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297969  
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-20L83050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1754.0 lumens  
Efficiency: N/A  
Efficacy: 113.9 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

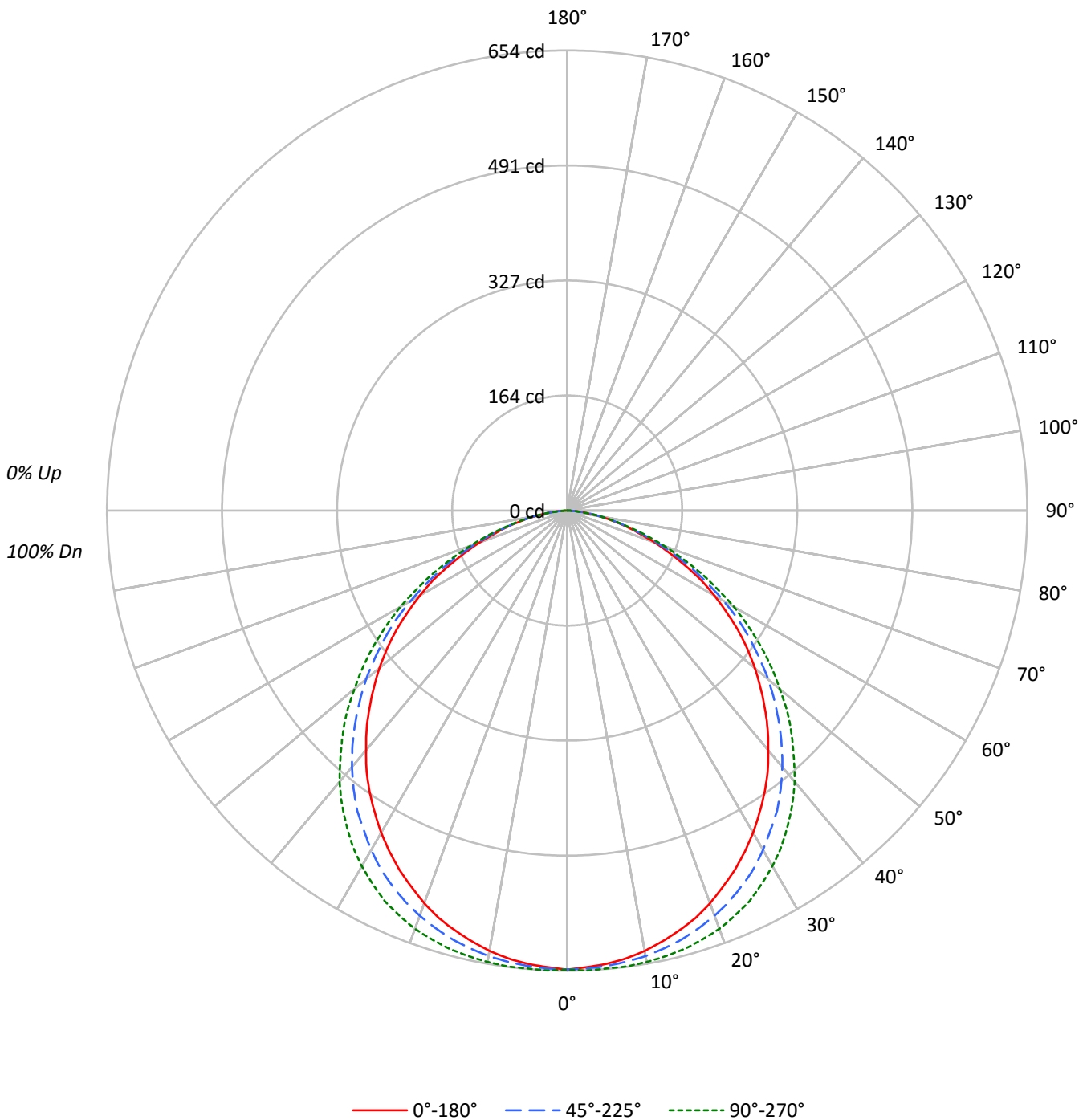
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1756	1756	1756
5°	1747	1755	1765
10°	1736	1757	1780
15°	1720	1757	1796
20°	1700	1755	1812
25°	1673	1746	1819
30°	1643	1731	1813
35°	1607	1709	1796
40°	1562	1671	1768
45°	1513	1620	1717
50°	1459	1561	1652
55°	1391	1484	1577
60°	1301	1382	1474
65°	1178	1251	1328
70°	1040	1092	1151
75°	893	913	952
80°	717	731	745
85°	525	466	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.8	3.5
10°-20°	178.1	10.2
20°-30°	270.9	15.4
30°-40°	324.1	18.5
40°-50°	327.6	18.7
50°-60°	282.0	16.1
60°-70°	194.7	11.1
70°-80°	94.4	5.4
80°-90°	20.5	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°	510.8	29.1
0°-40°	834.9	47.6
0°-60°	1444.5	82.4
0°-90°	1754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	652	652	652	652	652	
5°	647	648	650	652	653	61
15°	618	621	631	640	645	174
25°	564	570	588	606	613	260
35°	489	498	520	539	547	306
45°	398	405	426	444	451	307
55°	296	301	316	330	336	264
65°	185	188	196	205	209	184
75°	86	84	88	91	92	91
85°	17	17	15	15	15	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	652.4	652.4	652.4	652.4	652.4
2.5°	649.6	649.6	651.4	653.3	654.3
5°	646.7	647.7	649.6	652.4	653.3
7.5°	642.0	642.9	646.7	651.4	653.3
10°	635.4	637.3	642.9	648.6	651.4
12.5°	626.9	630.7	637.3	644.8	648.6
15°	617.5	621.2	630.7	640.1	644.8
17.5°	607.1	610.8	622.2	634.4	639.2
20°	593.8	599.5	612.7	626.9	632.6
22.5°	578.7	586.3	601.4	616.5	623.1
25°	563.6	570.2	588.2	606.1	612.7
27.5°	546.6	554.2	574.0	592.0	598.6
30°	528.7	536.3	557.0	576.9	583.5
32.5°	508.9	518.3	538.1	558.9	566.5
35°	489.1	497.5	520.2	539.1	546.6
37.5°	468.3	475.8	498.5	518.3	525.9
40°	444.7	453.2	475.8	495.7	503.2
42.5°	422.0	430.5	451.3	470.2	476.8
45°	397.5	405.0	425.8	443.7	451.3
47.5°	372.9	381.4	399.4	417.3	424.9
50°	348.4	355.0	372.9	389.9	394.6
52.5°	322.9	328.6	344.6	359.7	366.3
55°	296.5	301.2	316.3	330.4	336.1
57.5°	268.1	273.8	288.0	298.3	304.9
60°	241.7	244.5	256.8	267.2	273.8
62.5°	215.3	216.2	225.6	236.0	239.8
65°	185.0	187.9	196.4	204.9	208.6
67.5°	157.7	160.5	167.1	173.7	176.5
70°	132.2	132.2	138.8	143.5	146.3
72.5°	106.7	107.6	112.3	115.2	118.0
75°	85.9	84.0	87.8	90.6	91.6
77.5°	64.2	63.3	66.1	67.0	68.9
80°	46.3	46.3	47.2	48.1	48.1
82.5°	30.2	30.2	31.2	29.3	28.3
85°	17.0	17.0	15.1	15.1	15.1
87.5°	5.7	5.7	5.7	6.6	5.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)