

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: P297998

Luminaire Tested: **D3X-WD-44L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297998  
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-44L83050-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4301.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 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

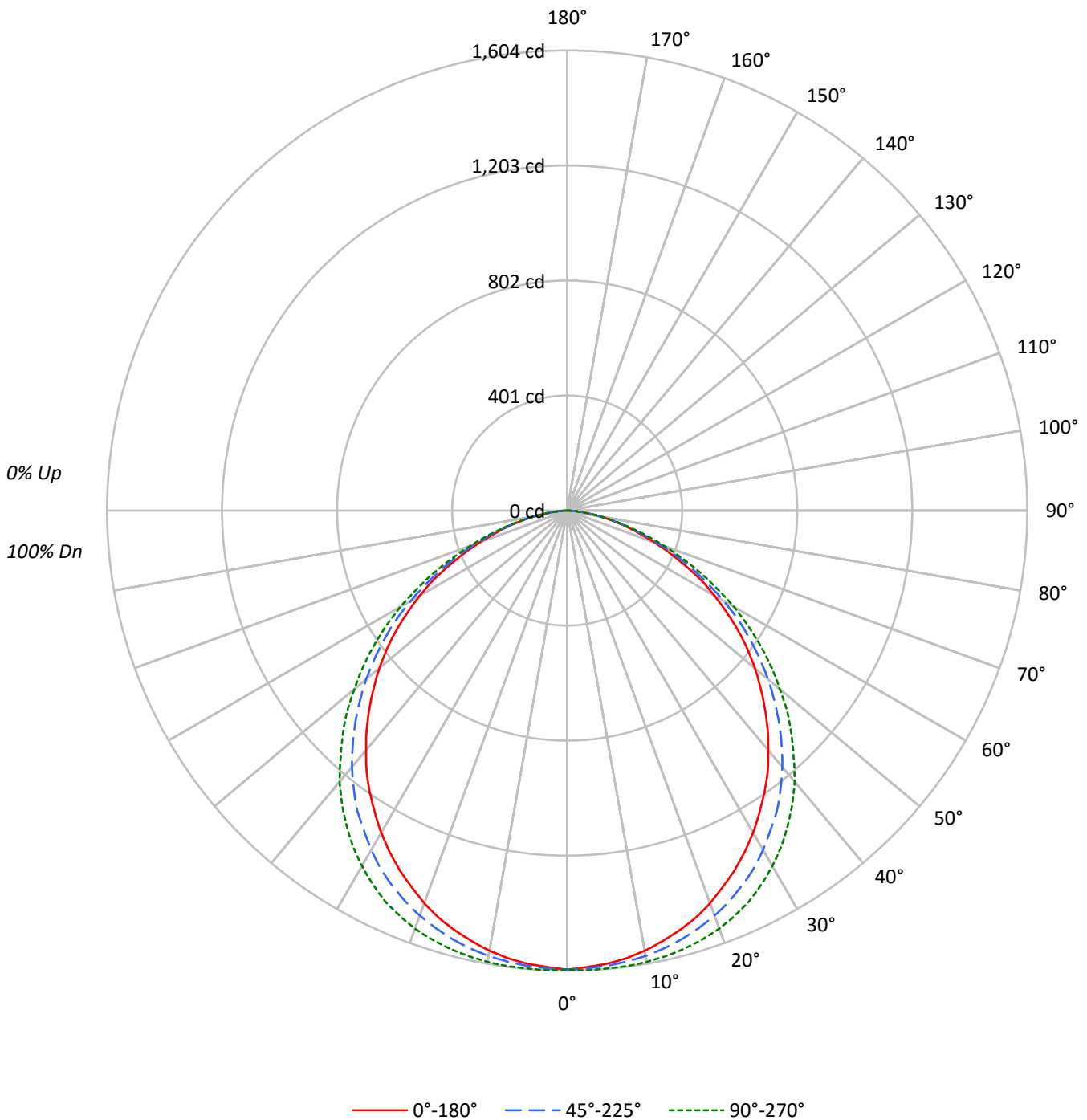
Input Watts (W): 37.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4305	4305	4305
5°	4284	4303	4327
10°	4257	4308	4365
15°	4218	4308	4405
20°	4170	4303	4442
25°	4104	4282	4461
30°	4028	4244	4446
35°	3939	4190	4403
40°	3830	4099	4334
45°	3709	3973	4211
50°	3576	3828	4051
55°	3410	3639	3867
60°	3190	3389	3613
65°	2890	3066	3258
70°	2550	2677	2823
75°	2191	2239	2335
80°	1757	1795	1830
85°	1288	1142	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.6	3.5
10°-20°	436.7	10.2
20°-30°	664.2	15.4
30°-40°	794.7	18.5
40°-50°	803.4	18.7
50°-60°	691.4	16.1
60°-70°	477.3	11.1
70°-80°	231.4	5.4
80°-90°	50.2	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°	1252.5	29.1
0°-40°	2047.2	47.6
0°-60°	3542.0	82.4
0°-90°	4301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4301.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1586	1588	1593	1600	1602	151
15°	1514	1523	1546	1570	1581	427
25°	1382	1398	1442	1486	1502	636
35°	1199	1220	1276	1322	1340	750
45°	975	993	1044	1088	1107	752
55°	727	738	776	810	824	648
65°	454	461	482	502	512	452
75°	211	206	215	222	225	224
85°	42	42	37	37	37	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1599.7	1599.7	1599.7	1599.7	1599.7
2.5°	1592.8	1592.8	1597.4	1602.0	1604.3
5°	1585.8	1588.1	1592.8	1599.7	1602.0
7.5°	1574.3	1576.6	1585.8	1597.4	1602.0
10°	1558.0	1562.7	1576.6	1590.5	1597.4
12.5°	1537.2	1546.5	1562.7	1581.2	1590.5
15°	1514.1	1523.3	1546.5	1569.6	1581.2
17.5°	1488.6	1497.9	1525.6	1555.7	1567.3
20°	1456.2	1470.1	1502.5	1537.2	1551.1
22.5°	1419.1	1437.7	1474.7	1511.7	1528.0
25°	1382.1	1398.3	1442.3	1486.3	1502.5
27.5°	1340.4	1359.0	1407.6	1451.6	1467.8
30°	1296.4	1315.0	1365.9	1414.5	1430.7
32.5°	1247.8	1271.0	1319.6	1370.5	1389.0
35°	1199.2	1220.0	1275.6	1321.9	1340.4
37.5°	1148.3	1166.8	1222.4	1271.0	1289.5
40°	1090.4	1111.2	1166.8	1215.4	1233.9
42.5°	1034.8	1055.7	1106.6	1152.9	1169.1
45°	974.6	993.2	1044.1	1088.1	1106.6
47.5°	914.5	935.3	979.3	1023.3	1041.8
50°	854.3	870.5	914.5	956.1	967.7
52.5°	791.8	805.6	845.0	882.0	898.3
55°	726.9	738.5	775.6	810.3	824.2
57.5°	657.5	671.4	706.1	731.6	747.8
60°	592.7	599.6	629.7	655.2	671.4
62.5°	527.8	530.2	553.3	578.8	588.0
65°	453.8	460.7	481.5	502.4	511.6
67.5°	386.6	393.6	409.8	426.0	432.9
70°	324.1	324.1	340.3	351.9	358.8
72.5°	261.6	263.9	275.5	282.4	289.4
75°	210.7	206.0	215.3	222.2	224.6
77.5°	157.4	155.1	162.1	164.4	169.0
80°	113.4	113.4	115.8	118.1	118.1
82.5°	74.1	74.1	76.4	71.8	69.5
85°	41.7	41.7	37.0	37.0	37.0
87.5°	13.9	13.9	13.9	16.2	13.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)