

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: P296712

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296712  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L83050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3085.0 lumens  
Efficiency: N/A  
Efficacy: 139.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

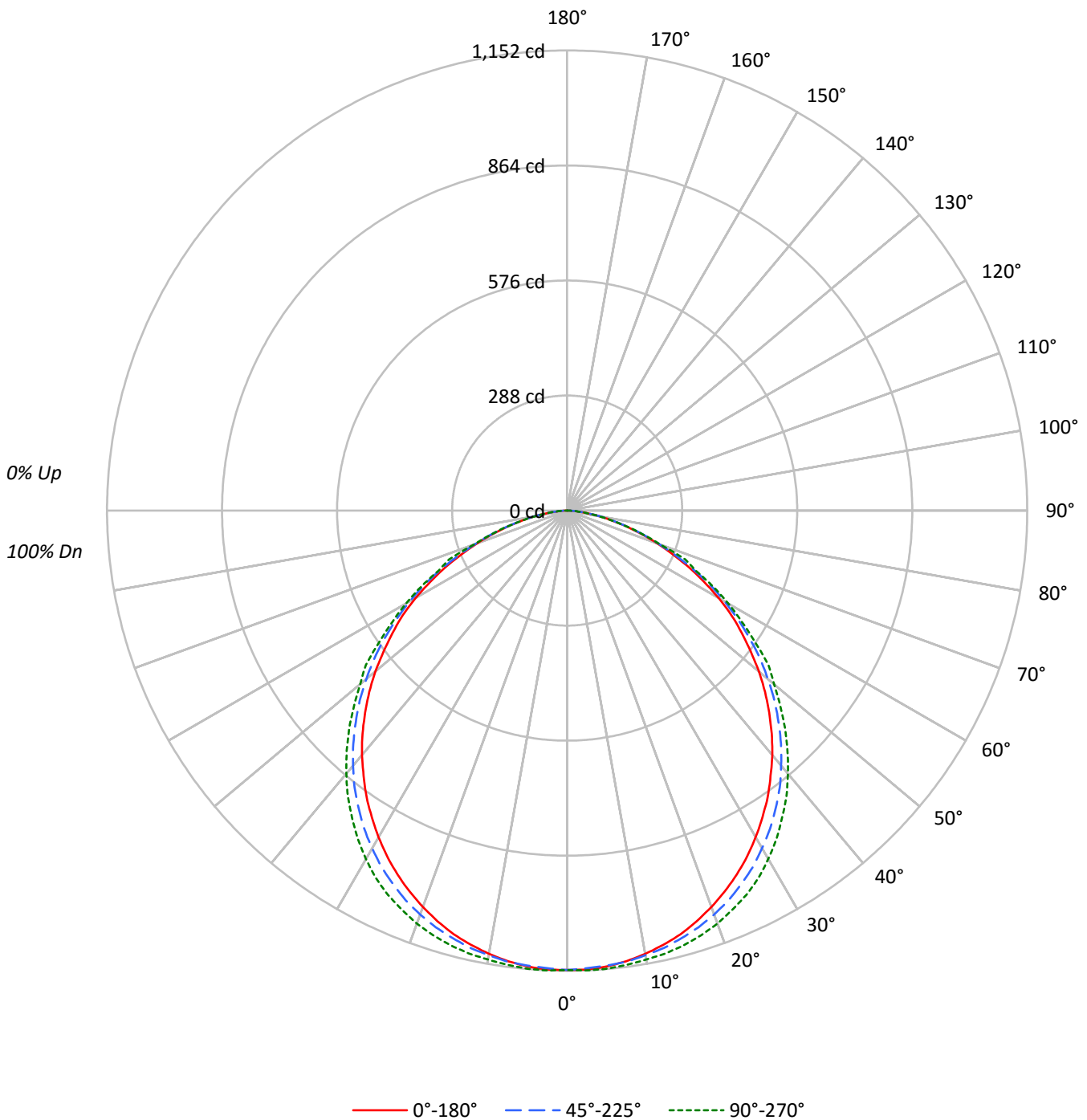
Input Watts (W): 22.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	94	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	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	30	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°	1547	1547	1547
5°	1547	1544	1555
10°	1539	1544	1559
15°	1529	1543	1570
20°	1512	1541	1575
25°	1492	1531	1576
30°	1467	1517	1565
35°	1438	1495	1542
40°	1404	1464	1511
45°	1361	1424	1468
50°	1311	1374	1416
55°	1251	1309	1348
60°	1179	1224	1254
65°	1071	1107	1128
70°	941	962	975
75°	794	806	811
80°	635	643	626
85°	428	445	428



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.0	3.5
10°-20°	313.4	10.2
20°-30°	475.6	15.4
30°-40°	567.8	18.4
40°-50°	574.8	18.6
50°-60°	496.9	16.1
60°-70°	344.4	11.2
70°-80°	166.6	5.4
80°-90°	36.6	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°	898.0	29.1
0°-40°	1465.7	47.5
0°-60°	2537.4	82.2
0°-90°	3085.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3085.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1150	1150	1150	1150	1150	
5°	1146	1144	1143	1149	1151	109
15°	1098	1100	1108	1121	1127	309
25°	1005	1012	1032	1053	1062	463
35°	876	883	910	933	939	547
45°	715	725	748	767	772	552
55°	534	539	558	581	574	477
65°	336	340	348	353	354	333
75°	153	154	155	154	156	164
85°	28	30	29	28	28	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1150.1	1150.1	1150.1	1150.1	1150.1
2.5°	1150.1	1149.0	1146.7	1150.1	1152.3
5°	1145.6	1144.5	1143.4	1149.0	1151.2
7.5°	1137.9	1137.9	1139.0	1144.5	1146.7
10°	1126.8	1127.9	1130.1	1139.0	1141.2
12.5°	1113.5	1115.8	1121.3	1131.2	1135.7
15°	1098.0	1100.3	1108.0	1121.3	1126.8
17.5°	1078.1	1082.5	1093.6	1109.1	1114.6
20°	1056.0	1061.5	1075.9	1093.6	1100.3
22.5°	1031.6	1037.2	1056.0	1074.8	1081.4
25°	1005.1	1011.7	1031.6	1052.7	1061.5
27.5°	976.3	984.0	1006.2	1028.3	1037.2
30°	944.2	953.0	976.3	999.5	1007.3
32.5°	909.9	918.7	945.3	967.4	975.2
35°	875.6	883.3	909.9	933.1	938.6
37.5°	836.8	845.7	874.4	894.4	902.1
40°	799.2	808.0	833.5	853.4	860.1
42.5°	758.2	767.1	792.5	811.4	816.9
45°	715.1	725.0	748.3	767.1	771.5
47.5°	671.9	679.6	704.0	720.6	723.9
50°	626.5	634.3	656.4	673.0	676.3
52.5°	578.9	591.1	608.8	621.0	635.4
55°	533.5	539.1	557.9	581.1	574.5
57.5°	488.1	491.5	507.0	516.9	519.1
60°	438.3	442.8	454.9	460.5	466.0
62.5°	386.3	389.6	404.0	409.6	411.8
65°	336.5	339.8	347.6	353.1	354.2
67.5°	285.6	288.9	295.5	300.0	319.9
70°	239.1	241.3	244.6	253.5	247.9
72.5°	194.8	195.9	199.2	199.2	200.3
75°	152.8	153.9	155.0	153.9	156.1
77.5°	114.0	116.2	117.3	116.2	115.1
80°	81.9	84.1	83.0	80.8	80.8
82.5°	53.1	54.2	53.1	52.0	52.0
85°	27.7	29.9	28.8	27.7	27.7
87.5°	10.0	11.1	12.2	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)