

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: P297412

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297412  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L93050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2895.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

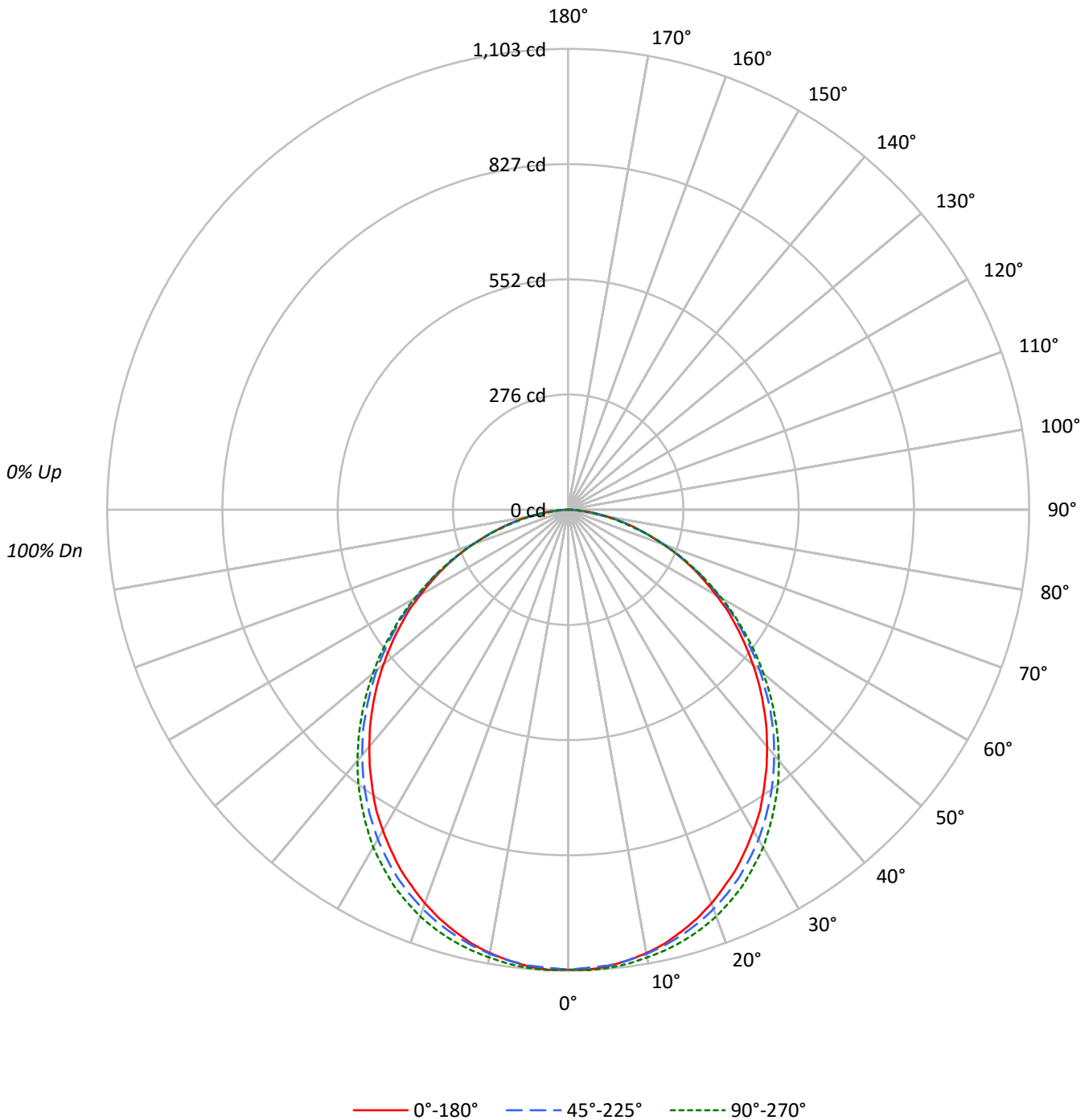
Input Watts (W): 22.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1481	1481	1481
5°	1482	1479	1487
10°	1472	1475	1487
15°	1456	1467	1488
20°	1435	1456	1483
25°	1410	1439	1471
30°	1377	1415	1450
35°	1341	1384	1416
40°	1300	1346	1377
45°	1256	1303	1330
50°	1208	1253	1276
55°	1158	1194	1213
60°	1100	1128	1142
65°	1037	1053	1059
70°	952	963	952
75°	857	852	827
80°	725	717	695
85°	542	526	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.2	3.6
10°-20°	297.8	10.3
20°-30°	446.5	15.4
30°-40°	525.8	18.2
40°-50°	525.9	18.2
50°-60°	453.8	15.7
60°-70°	326.5	11.3
70°-80°	173.2	6.0
80°-90°	41.3	1.4
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°	848.5	29.3
0°-40°	1374.3	47.5
0°-60°	2354.0	81.3
0°-90°	2895.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2895.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1101	1101	1101	1101	1101	
5°	1097	1096	1095	1099	1101	104
15°	1045	1048	1053	1064	1068	295
25°	950	956	969	986	991	437
35°	816	826	843	857	862	511
45°	660	669	685	696	699	509
55°	494	498	509	518	517	442
65°	326	327	331	332	332	322
75°	165	163	164	160	159	175
85°	35	35	34	31	30	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1101.0	1101.0	1101.0	1101.0	1101.0
2.5°	1102.0	1100.0	1097.1	1101.0	1103.0
5°	1097.1	1096.1	1095.2	1099.1	1101.0
7.5°	1088.3	1089.3	1088.3	1094.2	1096.1
10°	1077.6	1078.6	1079.6	1086.4	1088.3
12.5°	1064.0	1064.9	1067.9	1076.6	1079.6
15°	1045.4	1048.4	1053.2	1064.0	1067.9
17.5°	1025.9	1029.8	1036.7	1049.3	1053.2
20°	1002.5	1007.4	1017.2	1030.8	1035.7
22.5°	976.2	981.1	994.7	1009.4	1014.2
25°	949.9	955.7	969.4	985.9	990.8
27.5°	918.7	926.5	941.1	957.7	961.6
30°	886.5	893.3	910.9	926.5	933.3
32.5°	854.3	861.1	877.7	893.3	898.2
35°	816.3	826.0	842.6	857.2	862.1
37.5°	779.2	788.0	805.5	820.2	825.0
40°	740.2	748.0	766.5	780.2	784.1
42.5°	701.2	709.0	727.5	738.2	742.1
45°	660.2	669.0	684.6	696.3	699.2
47.5°	619.3	626.1	640.7	651.4	655.3
50°	577.3	584.2	598.8	607.6	609.5
52.5°	535.4	540.3	553.9	561.7	564.7
55°	493.5	498.3	509.1	517.8	516.9
57.5°	453.5	455.4	466.2	472.0	472.0
60°	408.6	410.6	419.3	423.2	424.2
62.5°	366.7	369.6	376.4	377.4	377.4
65°	325.7	326.7	330.6	332.5	332.5
67.5°	284.8	283.8	287.7	287.7	286.7
70°	241.9	243.8	244.8	242.8	241.9
72.5°	202.8	201.9	201.9	200.9	200.9
75°	164.8	162.9	163.8	159.9	159.0
77.5°	129.7	126.8	125.8	123.9	121.9
80°	93.6	93.6	92.6	90.7	89.7
82.5°	62.4	62.4	61.4	59.5	57.5
85°	35.1	35.1	34.1	31.2	30.2
87.5°	11.7	11.7	11.7	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)