

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: P298246

Luminaire Tested: **D3X-WG-44L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298246  
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-44L93050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3201.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

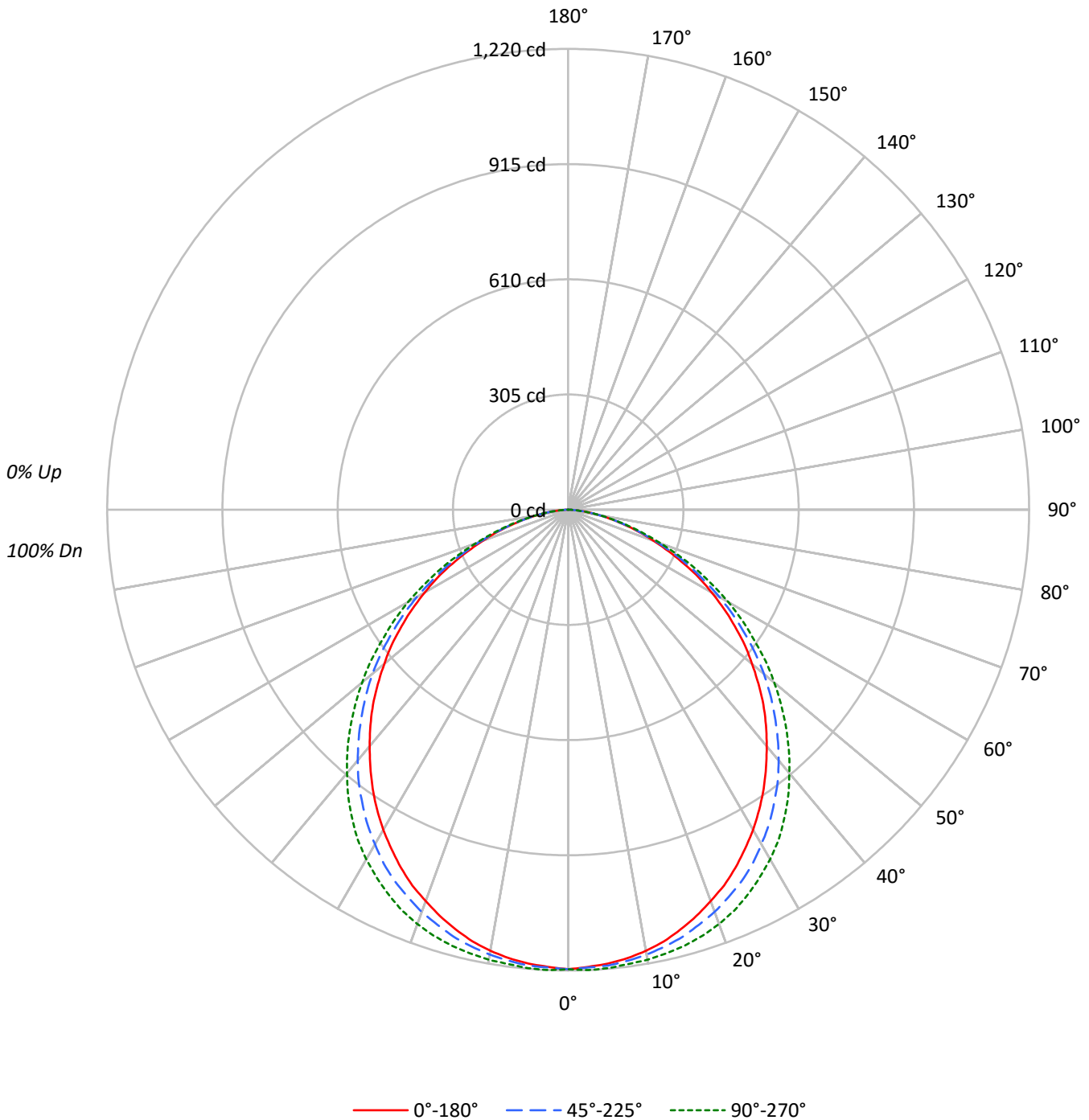
Input Watts (W): 36.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3274	3274	3274
5°	3259	3272	3291
10°	3240	3268	3305
15°	3204	3261	3327
20°	3157	3245	3342
25°	3108	3223	3339
30°	3041	3178	3320
35°	2963	3120	3276
40°	2871	3044	3199
45°	2780	2942	3103
50°	2660	2831	2980
55°	2527	2670	2814
60°	2359	2487	2633
65°	2153	2250	2380
70°	1885	1965	2045
75°	1607	1643	1713
80°	1289	1316	1342
85°	945	892	840



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.2	3.6
10°-20°	330.5	10.3
20°-30°	499.6	15.6
30°-40°	593.4	18.5
40°-50°	595.7	18.6
50°-60°	508.9	15.9
60°-70°	350.6	11.0
70°-80°	170.0	5.3
80°-90°	37.2	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°	945.2	29.5
0°-40°	1538.6	48.1
0°-60°	2643.2	82.6
0°-90°	3201.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3201.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1216	1216	1216	1216	1216	
5°	1206	1206	1211	1215	1218	115
15°	1150	1155	1171	1186	1194	324
25°	1047	1055	1086	1114	1125	482
35°	902	916	950	985	997	564
45°	731	741	773	805	816	562
55°	539	547	569	593	600	481
65°	338	338	353	369	374	335
75°	155	151	158	161	165	166
85°	31	31	29	27	27	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1216.5	1216.5	1216.5	1216.5	1216.5
2.5°	1211.4	1211.4	1213.1	1218.2	1219.9
5°	1206.3	1206.3	1211.4	1214.8	1218.2
7.5°	1197.8	1199.5	1204.6	1211.4	1213.1
10°	1185.9	1187.6	1196.1	1204.6	1209.7
12.5°	1170.6	1174.0	1184.2	1197.8	1202.9
15°	1150.2	1155.3	1170.6	1185.9	1194.4
17.5°	1128.1	1134.9	1151.9	1174.0	1182.5
20°	1102.6	1111.1	1133.2	1157.0	1167.2
22.5°	1077.1	1083.9	1109.4	1136.6	1148.5
25°	1046.6	1055.1	1085.6	1114.5	1124.7
27.5°	1012.6	1024.5	1056.8	1087.3	1097.5
30°	978.6	988.8	1022.8	1056.8	1068.6
32.5°	941.2	951.4	988.8	1022.8	1036.4
35°	902.1	915.7	949.7	985.4	997.3
37.5°	859.7	875.0	910.6	941.2	956.5
40°	817.2	830.8	866.5	898.7	910.6
42.5°	774.7	786.6	820.6	854.6	864.8
45°	730.6	740.7	773.0	805.3	815.5
47.5°	683.0	694.9	725.5	752.6	764.5
50°	635.4	647.3	676.2	701.7	711.9
52.5°	589.5	596.3	623.5	647.3	659.2
55°	538.6	547.1	569.2	592.9	599.7
57.5°	489.3	494.4	516.5	536.9	547.1
60°	438.3	441.7	462.1	477.4	489.3
62.5°	390.8	390.8	406.1	423.0	429.8
65°	338.1	338.1	353.4	368.7	373.8
67.5°	287.1	290.5	300.7	312.6	316.0
70°	239.6	239.6	249.7	258.2	259.9
72.5°	197.1	195.4	200.5	207.3	210.7
75°	154.6	151.2	158.0	161.4	164.8
77.5°	117.2	115.5	118.9	122.3	122.3
80°	83.2	81.5	84.9	84.9	86.6
82.5°	54.4	56.1	56.1	54.4	52.7
85°	30.6	30.6	28.9	27.2	27.2
87.5°	10.2	10.2	10.2	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)