

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: P297878

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-5500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3244.0 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

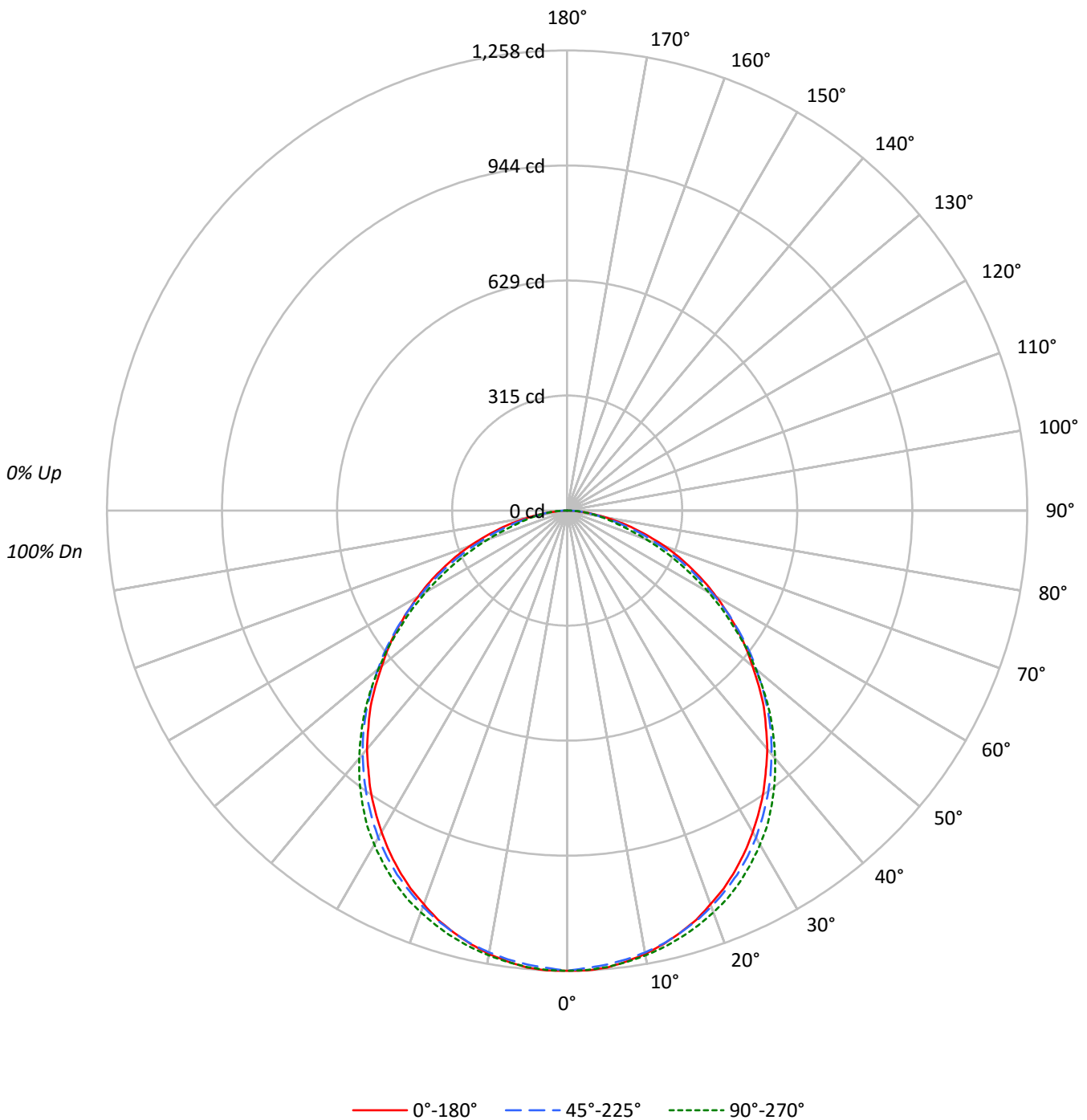
Input Watts (W): 29.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	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	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	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	46	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	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3386	3386	3386
5°	3388	3365	3384
10°	3363	3352	3374
15°	3329	3329	3364
20°	3280	3300	3347
25°	3225	3262	3323
30°	3153	3209	3277
35°	3076	3135	3207
40°	2990	3053	3106
45°	2894	2957	2983
50°	2769	2827	2815
55°	2664	2684	2613
60°	2531	2494	2398
65°	2390	2294	2136
70°	2218	2034	1806
75°	1973	1745	1487
80°	1641	1427	1385
85°	1189	1275	1275



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	118.7	3.7
10°-20°	338.3	10.4
20°-30°	506.9	15.6
30°-40°	597.3	18.4
40°-50°	595.7	18.4
50°-60°	506.7	15.6
60°-70°	353.6	10.9
70°-80°	179.8	5.5
80°-90°	47.0	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°	963.9	29.7
0°-40°	1561.2	48.1
0°-60°	2663.6	82.1
0°-90°	3244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1254	1251	1246	1253	1253	119
15°	1195	1195	1195	1206	1207	337
25°	1086	1088	1099	1115	1119	500
35°	936	938	954	974	976	585
45°	760	763	777	782	784	585
55°	568	568	572	564	557	507
65°	375	370	360	341	336	372
75°	190	183	168	147	143	202
85°	38	40	41	41	41	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1258.2	1258.2	1258.2	1258.2	1258.2
2.5°	1258.2	1256.9	1251.4	1256.9	1256.9
5°	1254.1	1251.4	1245.9	1252.7	1252.7
7.5°	1243.1	1241.7	1237.6	1244.5	1244.5
10°	1230.7	1229.4	1226.6	1234.9	1234.9
12.5°	1214.2	1214.2	1212.9	1221.1	1222.5
15°	1195.0	1195.0	1195.0	1206.0	1207.4
17.5°	1173.0	1171.6	1175.7	1188.1	1189.5
20°	1145.5	1146.9	1152.4	1166.1	1168.9
22.5°	1118.0	1119.3	1126.2	1142.7	1146.9
25°	1086.3	1087.7	1098.7	1115.2	1119.3
27.5°	1052.0	1054.7	1067.1	1085.0	1087.7
30°	1014.8	1017.6	1032.7	1050.6	1054.7
32.5°	976.3	980.5	994.2	1013.5	1019.0
35°	936.5	937.8	954.3	973.6	976.3
37.5°	892.5	896.6	913.1	929.6	932.3
40°	851.2	853.9	869.1	882.8	884.2
42.5°	804.4	808.6	825.1	834.7	834.7
45°	760.4	763.2	776.9	782.4	783.8
47.5°	710.9	713.7	726.1	728.8	728.8
50°	661.4	668.3	675.2	675.2	672.4
52.5°	616.1	617.4	625.7	620.2	617.4
55°	567.9	567.9	572.1	563.8	556.9
57.5°	519.8	519.8	519.8	508.8	503.3
60°	470.3	468.9	463.4	449.7	445.5
62.5°	423.5	419.4	411.2	397.4	389.2
65°	375.4	369.9	360.3	341.0	335.5
67.5°	330.0	320.4	309.4	291.5	281.9
70°	281.9	273.6	258.5	237.9	229.6
72.5°	235.1	226.9	214.5	193.9	181.5
75°	189.8	182.9	167.8	147.1	143.0
77.5°	145.8	141.6	126.5	116.9	115.5
80°	105.9	104.5	92.1	89.4	89.4
82.5°	70.1	68.8	64.6	64.6	63.3
85°	38.5	39.9	41.3	41.3	41.3
87.5°	13.8	16.5	19.3	19.3	19.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)