

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: P297561

Luminaire Tested: **D3X-WD-31L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297561  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
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-14-T1-W2A-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3111.0 lumens  
Efficiency: N/A  
Efficacy: 107.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

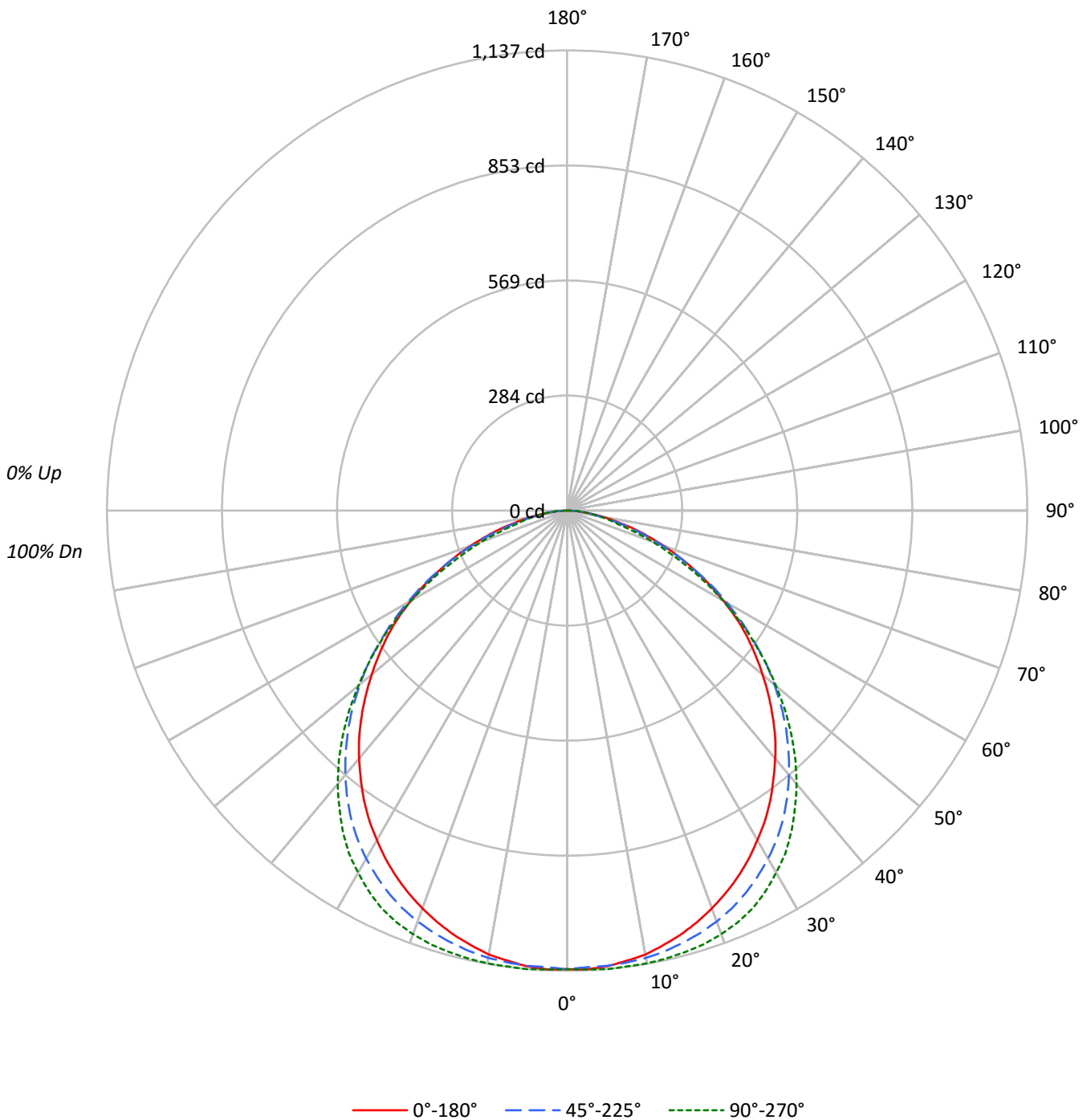
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	71
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	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	3049	3049	3049
5°	3054	3050	3072
10°	3043	3066	3104
15°	3022	3080	3145
20°	2995	3094	3189
25°	2965	3097	3220
30°	2921	3085	3210
35°	2874	3056	3175
40°	2810	2995	3098
45°	2732	2912	2981
50°	2640	2797	2820
55°	2548	2645	2632
60°	2399	2451	2392
65°	2211	2220	2096
70°	1978	1934	1759
75°	1719	1602	1357
80°	1378	1247	1247
85°	985	1158	1201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.8	3.5
10°-20°	312.8	10.1
20°-30°	480.3	15.4
30°-40°	578.5	18.6
40°-50°	584.6	18.8
50°-60°	498.6	16.0
60°-70°	341.3	11.0
70°-80°	164.7	5.3
80°-90°	42.4	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°	900.9	29.0
0°-40°	1479.3	47.6
0°-60°	2562.5	82.4
0°-90°	3111.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3111.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1133	1133	1133	1133	1133	
5°	1130	1130	1129	1136	1137	107
15°	1085	1093	1105	1125	1129	306
25°	998	1014	1043	1074	1085	460
35°	875	894	930	960	966	547
45°	718	737	765	783	783	554
55°	543	553	564	567	561	484
65°	347	351	349	336	329	344
75°	165	165	154	136	130	175
85°	32	35	38	39	39	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1133.2	1133.2	1133.2	1133.2	1133.2
2.5°	1134.6	1133.2	1129.0	1134.6	1134.6
5°	1130.4	1130.4	1129.0	1135.9	1137.3
7.5°	1122.1	1124.8	1126.2	1134.6	1135.9
10°	1113.7	1116.5	1122.1	1133.2	1135.9
12.5°	1099.8	1105.4	1115.1	1130.4	1133.2
15°	1084.6	1092.9	1105.4	1124.8	1129.0
17.5°	1066.5	1077.6	1094.3	1116.5	1123.4
20°	1045.7	1058.2	1080.4	1105.4	1113.7
22.5°	1023.5	1037.4	1063.7	1092.9	1101.2
25°	998.5	1013.7	1042.9	1073.5	1084.6
27.5°	970.7	987.4	1019.3	1051.2	1061.0
30°	940.1	958.2	992.9	1024.9	1033.2
32.5°	909.6	927.6	963.8	994.3	1004.0
35°	874.9	894.3	930.4	959.6	966.5
37.5°	837.4	856.8	892.9	922.1	924.9
40°	799.9	819.3	852.7	879.0	881.8
42.5°	761.0	779.1	809.6	831.8	834.6
45°	718.0	737.4	765.2	783.2	783.2
47.5°	674.9	694.3	718.0	730.5	730.5
50°	630.5	648.5	668.0	674.9	673.5
52.5°	586.0	602.7	619.4	620.7	618.0
55°	543.0	552.7	563.8	566.6	561.0
57.5°	495.8	504.1	511.0	506.9	502.7
60°	445.8	454.1	455.5	448.5	444.4
62.5°	397.2	404.1	404.1	393.0	386.1
65°	347.2	351.3	348.6	336.1	329.1
67.5°	300.0	302.7	297.2	284.7	273.6
70°	251.4	252.7	245.8	230.5	223.6
72.5°	206.9	208.3	200.0	181.9	173.6
75°	165.3	165.3	154.1	136.1	130.5
77.5°	123.6	127.8	115.3	105.5	105.5
80°	88.9	93.0	80.5	81.9	80.5
82.5°	58.3	62.5	58.3	58.3	58.3
85°	31.9	34.7	37.5	38.9	38.9
87.5°	9.7	16.7	18.1	19.4	22.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)