

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: P298022

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298022  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L82765-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2996.0 lumens  
Efficiency: N/A  
Efficacy: 119.8 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

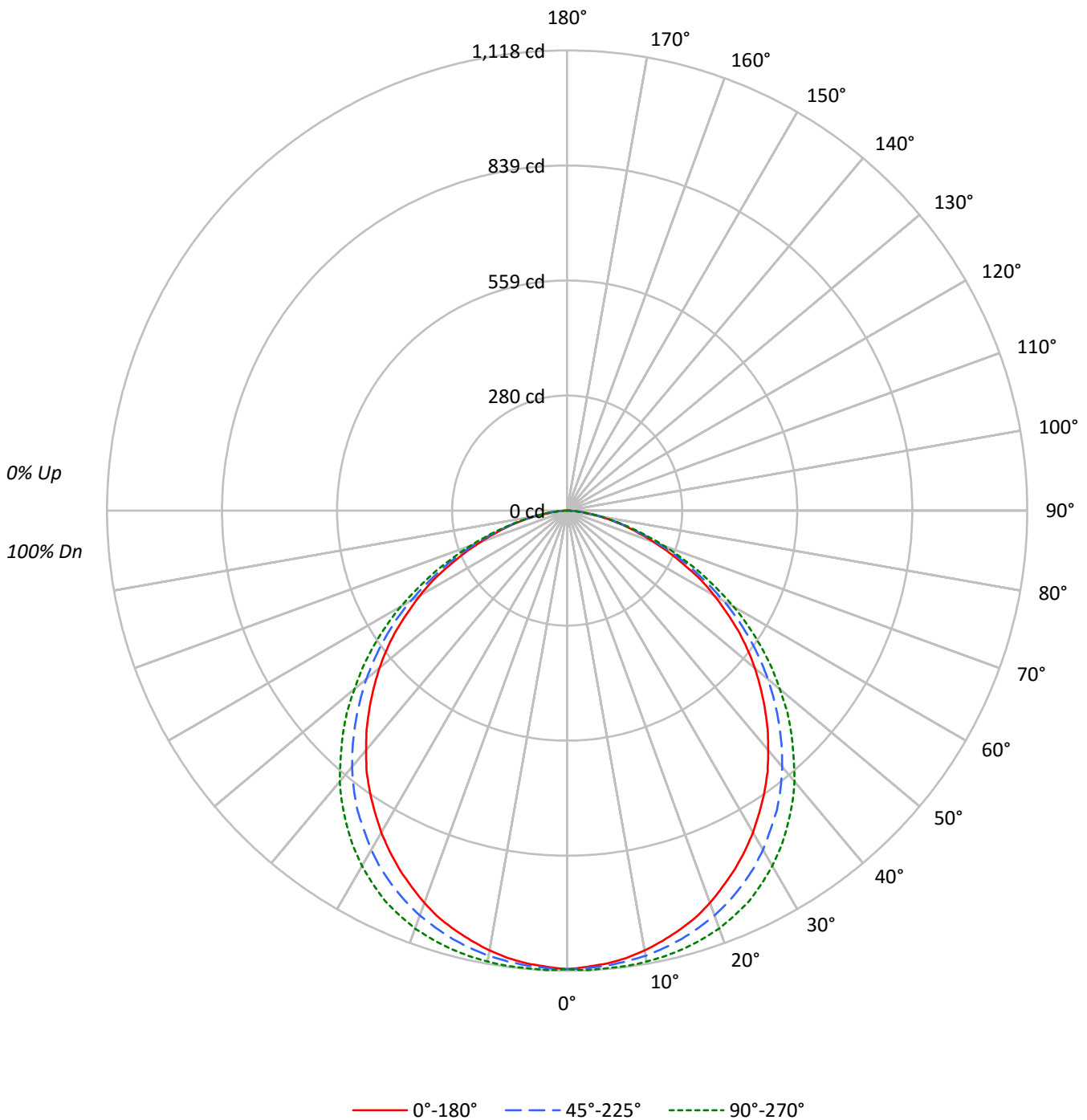
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	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°	2999	2999	2999
5°	2984	2997	3014
10°	2966	3001	3040
15°	2938	3001	3068
20°	2905	2997	3094
25°	2858	2983	3108
30°	2806	2957	3097
35°	2744	2919	3067
40°	2668	2855	3019
45°	2584	2768	2933
50°	2491	2667	2822
55°	2376	2534	2693
60°	2222	2361	2517
65°	2013	2136	2269
70°	1777	1865	1967
75°	1526	1560	1626
80°	1224	1249	1274
85°	895	797	797



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.6	3.5
10°-20°	304.2	10.2
20°-30°	462.7	15.4
30°-40°	553.6	18.5
40°-50°	559.6	18.7
50°-60°	481.6	16.1
60°-70°	332.5	11.1
70°-80°	161.2	5.4
80°-90°	35.0	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°	872.5	29.1
0°-40°	1426.1	47.6
0°-60°	2467.3	82.4
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1105	1106	1110	1114	1116	105
15°	1055	1061	1077	1093	1101	298
25°	963	974	1005	1035	1047	443
35°	835	850	889	921	934	522
45°	679	692	727	758	771	524
55°	506	514	540	564	574	451
65°	316	321	335	350	356	315
75°	147	144	150	155	156	156
85°	29	29	26	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1109.5	1109.5	1112.7	1115.9	1117.6
5°	1104.7	1106.3	1109.5	1114.3	1115.9
7.5°	1096.6	1098.2	1104.7	1112.7	1115.9
10°	1085.3	1088.5	1098.2	1107.9	1112.7
12.5°	1070.8	1077.2	1088.5	1101.4	1107.9
15°	1054.7	1061.1	1077.2	1093.4	1101.4
17.5°	1036.9	1043.4	1062.7	1083.7	1091.8
20°	1014.4	1024.0	1046.6	1070.8	1080.5
22.5°	988.5	1001.5	1027.3	1053.1	1064.3
25°	962.7	974.0	1004.7	1035.3	1046.6
27.5°	933.7	946.6	980.5	1011.1	1022.4
30°	903.1	916.0	951.5	985.3	996.6
32.5°	869.2	885.3	919.2	954.7	967.6
35°	835.3	849.9	888.6	920.8	933.7
37.5°	799.9	812.8	851.5	885.3	898.2
40°	759.6	774.1	812.8	846.6	859.5
42.5°	720.9	735.4	770.8	803.1	814.4
45°	678.9	691.8	727.3	757.9	770.8
47.5°	637.0	651.5	682.1	712.8	725.7
50°	595.1	606.4	637.0	666.0	674.1
52.5°	551.5	561.2	588.6	614.4	625.7
55°	506.4	514.4	540.2	564.4	574.1
57.5°	458.0	467.7	491.9	509.6	520.9
60°	412.8	417.7	438.6	456.4	467.7
62.5°	367.7	369.3	385.4	403.2	409.6
65°	316.1	320.9	335.4	349.9	356.4
67.5°	269.3	274.1	285.4	296.7	301.6
70°	225.8	225.8	237.1	245.1	250.0
72.5°	182.2	183.8	191.9	196.7	201.6
75°	146.8	143.5	150.0	154.8	156.4
77.5°	109.7	108.0	112.9	114.5	117.7
80°	79.0	79.0	80.6	82.2	82.2
82.5°	51.6	51.6	53.2	50.0	48.4
85°	29.0	29.0	25.8	25.8	25.8
87.5°	9.7	9.7	9.7	11.3	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)