

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: P297771

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L93050-LD5-UNV-14-T1-W2A-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2715.0 lumens  
Efficiency: N/A  
Efficacy: 93.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

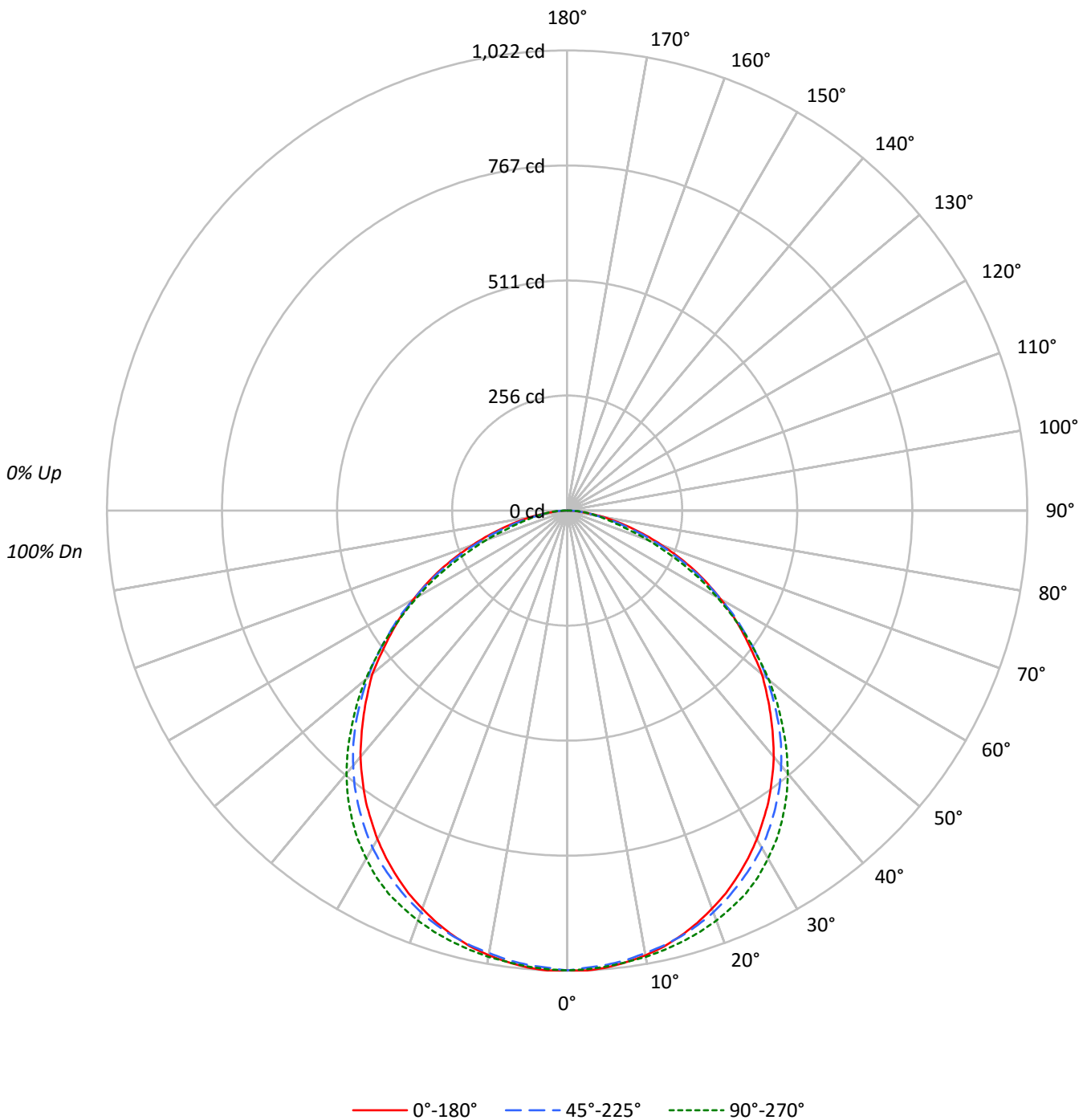
Input Watts (W): 29  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	77	83	79	75	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	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	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	2748	2748	2748
5°	2752	2735	2745
10°	2740	2727	2750
15°	2723	2726	2760
20°	2694	2719	2775
25°	2660	2704	2787
30°	2618	2686	2773
35°	2569	2648	2740
40°	2508	2597	2679
45°	2430	2523	2574
50°	2364	2424	2450
55°	2244	2290	2278
60°	2124	2124	2065
65°	1971	1925	1817
70°	1748	1672	1509
75°	1515	1376	1161
80°	1241	1072	1054
85°	824	976	1050



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.5	3.6
10°-20°	277.1	10.2
20°-30°	421.2	15.5
30°-40°	504.3	18.6
40°-50°	508.6	18.7
50°-60°	433.2	16.0
60°-70°	296.2	10.9
70°-80°	141.9	5.2
80°-90°	35.9	1.3
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°	794.8	29.3
0°-40°	1299.1	47.8
0°-60°	2241.0	82.5
0°-90°	2715.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2715.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1019	1017	1013	1017	1016	97
15°	977	975	979	990	991	276
25°	896	897	911	931	938	413
35°	782	784	806	829	834	488
45°	639	644	663	676	676	493
55°	478	481	488	489	486	428
65°	310	304	302	291	285	305
75°	146	143	132	115	112	156
85°	27	29	32	33	34	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1021.1	1021.1	1021.1	1021.1	1021.1
2.5°	1022.3	1021.1	1016.2	1021.1	1019.8
5°	1018.6	1017.4	1012.6	1017.4	1016.2
7.5°	1011.3	1010.1	1006.5	1011.3	1011.3
10°	1002.8	1000.4	998.0	1005.3	1006.5
12.5°	991.9	989.5	989.5	998.0	999.2
15°	977.4	974.9	978.6	989.5	990.7
17.5°	960.4	959.1	965.2	978.6	981.0
20°	940.9	939.7	949.4	965.2	968.9
22.5°	920.3	920.3	931.2	949.4	954.3
25°	896.0	897.2	910.6	931.2	938.5
27.5°	870.5	872.9	888.7	911.8	917.9
30°	842.6	846.2	864.4	886.3	892.4
32.5°	812.2	815.9	836.5	859.6	865.7
35°	781.9	784.3	806.2	829.2	834.1
37.5°	747.9	751.5	774.6	795.2	800.1
40°	713.9	717.5	739.4	758.8	762.5
42.5°	676.3	681.1	703.0	718.7	721.2
45°	638.6	643.5	662.9	676.3	676.3
47.5°	601.0	603.4	620.4	633.8	632.5
50°	564.6	563.3	579.1	585.2	585.2
52.5°	519.6	523.3	534.2	537.8	534.2
55°	478.4	480.8	488.1	489.3	485.6
57.5°	438.3	437.1	443.1	439.5	434.6
60°	394.6	394.6	394.6	390.9	383.7
62.5°	352.1	349.7	348.4	339.9	336.3
65°	309.6	303.5	302.3	291.4	285.3
67.5°	264.7	262.2	256.2	245.2	234.3
70°	222.2	219.8	212.5	199.1	191.8
72.5°	183.3	180.9	171.2	155.4	145.7
75°	145.7	143.3	132.3	115.3	111.7
77.5°	110.5	109.3	98.3	89.8	88.6
80°	80.1	78.9	69.2	69.2	68.0
82.5°	51.0	51.0	48.6	49.8	51.0
85°	26.7	29.1	31.6	32.8	34.0
87.5°	8.5	13.4	15.8	17.0	15.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)