

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: P298233

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298233  
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-31L93050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2709.0 lumens  
Efficiency: N/A  
Efficacy: 107.9 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

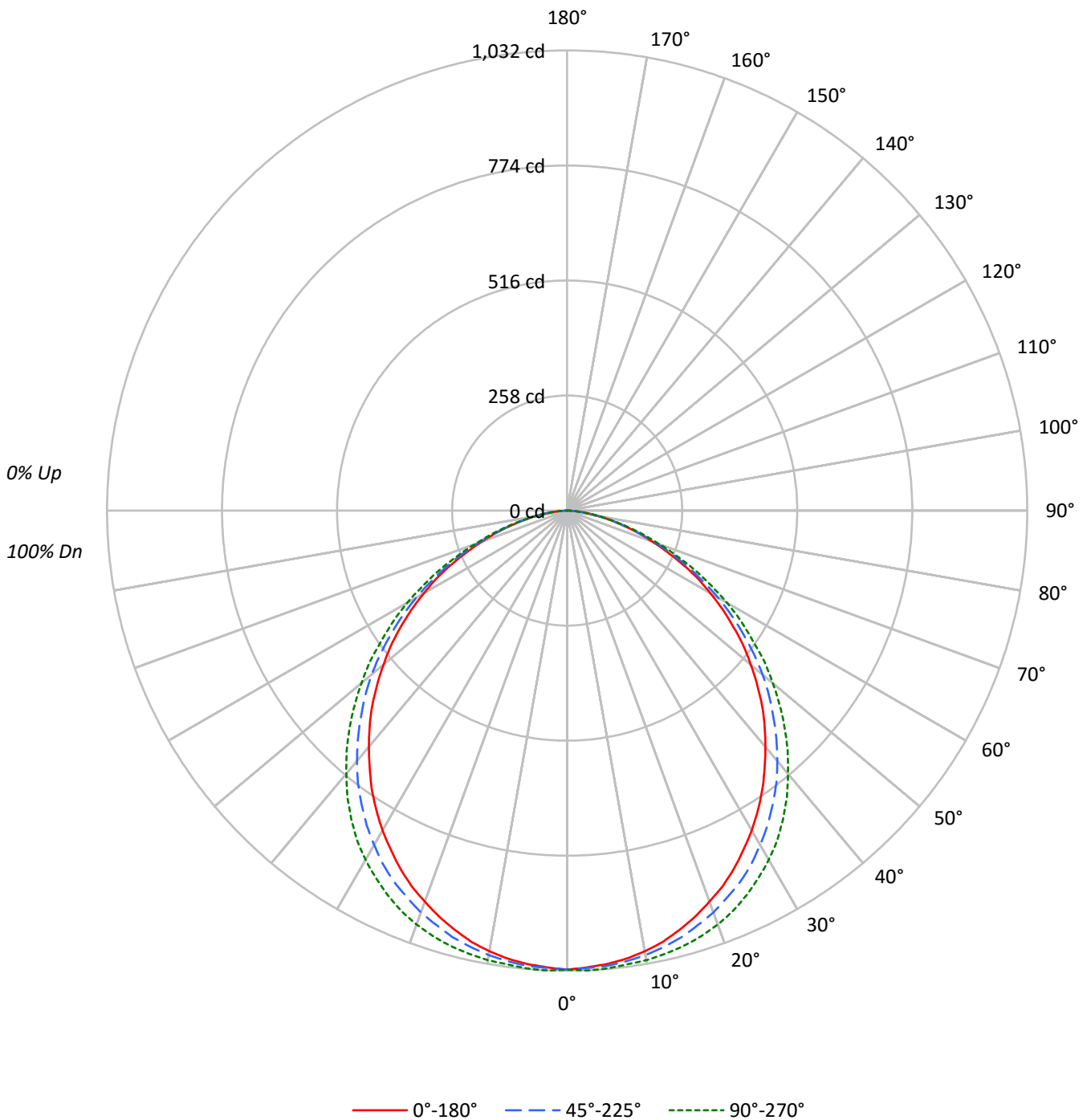
Input Watts (W): 25.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2770	2770	2770
5°	2758	2769	2785
10°	2742	2766	2797
15°	2712	2760	2816
20°	2672	2746	2829
25°	2630	2728	2826
30°	2573	2690	2810
35°	2508	2640	2773
40°	2429	2576	2707
45°	2353	2490	2627
50°	2251	2396	2522
55°	2138	2260	2381
60°	1997	2105	2229
65°	1822	1904	2014
70°	1595	1663	1731
75°	1360	1390	1450
80°	1093	1114	1136
85°	800	753	710



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.5	3.6
10°-20°	279.7	10.3
20°-30°	422.8	15.6
30°-40°	502.2	18.5
40°-50°	504.2	18.6
50°-60°	430.7	15.9
60°-70°	296.7	11.0
70°-80°	143.9	5.3
80°-90°	31.5	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°	799.9	29.5
0°-40°	1302.1	48.1
0°-60°	2237.0	82.6
0°-90°	2709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2709.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1021	1021	1025	1028	1031	97
15°	973	978	991	1004	1011	274
25°	886	893	919	943	952	408
35°	764	775	804	834	844	477
45°	618	627	654	682	690	476
55°	456	463	482	502	508	407
65°	286	286	299	312	316	283
75°	131	128	134	137	140	141
85°	26	26	24	23	23	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1025.2	1025.2	1026.6	1030.9	1032.4
5°	1020.9	1020.9	1025.2	1028.0	1030.9
7.5°	1013.7	1015.1	1019.4	1025.2	1026.6
10°	1003.6	1005.0	1012.2	1019.4	1023.7
12.5°	990.7	993.5	1002.2	1013.7	1018.0
15°	973.4	977.7	990.7	1003.6	1010.8
17.5°	954.7	960.5	974.8	993.5	1000.7
20°	933.1	940.3	959.0	979.2	987.8
22.5°	911.6	917.3	938.9	961.9	972.0
25°	885.7	892.9	918.8	943.2	951.8
27.5°	856.9	867.0	894.3	920.2	928.8
30°	828.2	836.8	865.6	894.3	904.4
32.5°	796.6	805.2	836.8	865.6	877.1
35°	763.5	775.0	803.7	833.9	844.0
37.5°	727.5	740.5	770.7	796.6	809.5
40°	691.6	703.1	733.3	760.6	770.7
42.5°	655.6	665.7	694.5	723.2	731.9
45°	618.3	626.9	654.2	681.5	690.2
47.5°	578.0	588.1	614.0	637.0	647.0
50°	537.7	547.8	572.3	593.8	602.4
52.5°	498.9	504.7	527.7	547.8	557.9
55°	455.8	463.0	481.7	501.8	507.6
57.5°	414.1	418.4	437.1	454.4	463.0
60°	371.0	373.8	391.1	404.0	414.1
62.5°	330.7	330.7	343.6	358.0	363.8
65°	286.1	286.1	299.1	312.0	316.3
67.5°	243.0	245.9	254.5	264.6	267.4
70°	202.7	202.7	211.4	218.5	220.0
72.5°	166.8	165.3	169.7	175.4	178.3
75°	130.8	128.0	133.7	136.6	139.5
77.5°	99.2	97.8	100.6	103.5	103.5
80°	70.5	69.0	71.9	71.9	73.3
82.5°	46.0	47.4	47.4	46.0	44.6
85°	25.9	25.9	24.4	23.0	23.0
87.5°	8.6	8.6	8.6	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)