

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: P298147

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298147  
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-31L83050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2788.0 lumens  
Efficiency: N/A  
Efficacy: 114.3 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

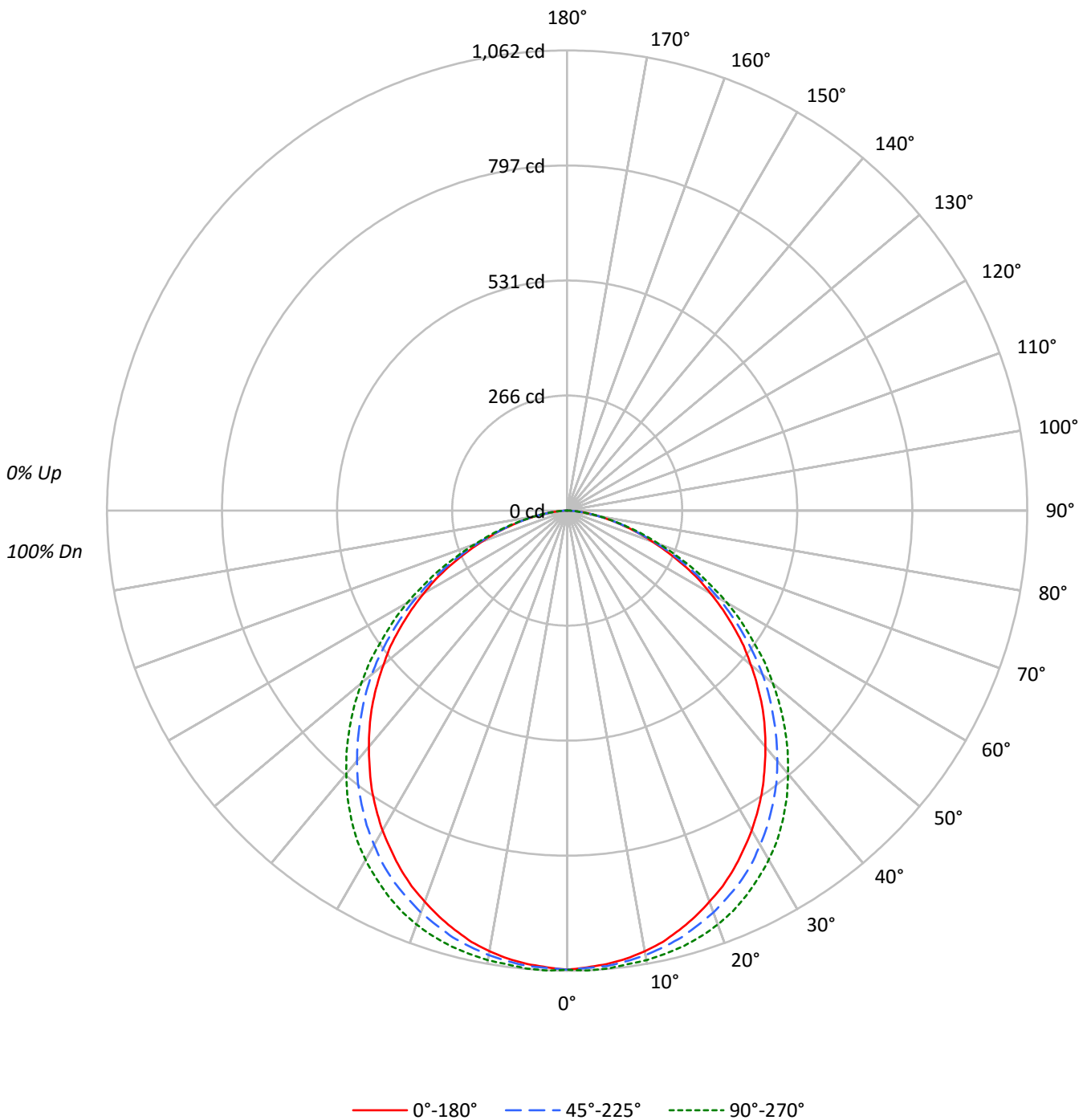
Input Watts (W): 24.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2851	2851	2851
5°	2838	2850	2866
10°	2822	2846	2879
15°	2791	2841	2898
20°	2750	2826	2911
25°	2706	2808	2909
30°	2648	2768	2892
35°	2581	2717	2853
40°	2500	2651	2786
45°	2422	2562	2703
50°	2317	2465	2596
55°	2201	2326	2451
60°	2055	2166	2294
65°	1875	1960	2073
70°	1641	1711	1781
75°	1400	1431	1492
80°	1124	1147	1170
85°	821	778	732



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.3	3.6
10°-20°	287.8	10.3
20°-30°	435.1	15.6
30°-40°	516.8	18.5
40°-50°	518.9	18.6
50°-60°	443.2	15.9
60°-70°	305.4	11.0
70°-80°	148.1	5.3
80°-90°	32.4	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°	823.3	29.5
0°-40°	1340.1	48.1
0°-60°	2302.2	82.6
0°-90°	2788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1060	1060	1060	1060	1060	
5°	1051	1051	1055	1058	1061	100
15°	1002	1006	1020	1033	1040	282
25°	912	919	946	971	980	419
35°	786	798	827	858	869	491
45°	636	645	673	701	710	490
55°	469	476	496	516	522	419
65°	294	294	308	321	326	292
75°	135	132	138	141	144	145
85°	27	27	25	24	24	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1059.5	1059.5	1059.5	1059.5	1059.5
2.5°	1055.1	1055.1	1056.5	1061.0	1062.5
5°	1050.6	1050.6	1055.1	1058.0	1061.0
7.5°	1043.2	1044.7	1049.1	1055.1	1056.5
10°	1032.9	1034.3	1041.7	1049.1	1053.6
12.5°	1019.6	1022.5	1031.4	1043.2	1047.7
15°	1001.8	1006.2	1019.6	1032.9	1040.3
17.5°	982.6	988.5	1003.3	1022.5	1029.9
20°	960.4	967.8	987.0	1007.7	1016.6
22.5°	938.2	944.1	966.3	990.0	1000.3
25°	911.5	918.9	945.6	970.7	979.6
27.5°	881.9	892.3	920.4	947.0	955.9
30°	852.3	861.2	890.8	920.4	930.8
32.5°	819.8	828.7	861.2	890.8	902.6
35°	785.7	797.6	827.2	858.3	868.6
37.5°	748.8	762.1	793.1	819.8	833.1
40°	711.8	723.6	754.7	782.8	793.1
42.5°	674.8	685.1	714.7	744.3	753.2
45°	636.3	645.2	673.3	701.4	710.3
47.5°	594.9	605.2	631.9	655.5	665.9
50°	553.4	563.8	588.9	611.1	620.0
52.5°	513.5	519.4	543.1	563.8	574.1
55°	469.1	476.5	495.7	516.4	522.4
57.5°	426.2	430.6	449.8	467.6	476.5
60°	381.8	384.7	402.5	415.8	426.2
62.5°	340.3	340.3	353.7	368.5	374.4
65°	294.5	294.5	307.8	321.1	325.5
67.5°	250.1	253.0	261.9	272.3	275.2
70°	208.6	208.6	217.5	224.9	226.4
72.5°	171.7	170.2	174.6	180.5	183.5
75°	134.7	131.7	137.6	140.6	143.5
77.5°	102.1	100.6	103.6	106.5	106.5
80°	72.5	71.0	74.0	74.0	75.5
82.5°	47.4	48.8	48.8	47.4	45.9
85°	26.6	26.6	25.2	23.7	23.7
87.5°	8.9	8.9	8.9	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)