

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: P298234

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298234  
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-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2756.0 lumens  
Efficiency: N/A  
Efficacy: 108.1 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

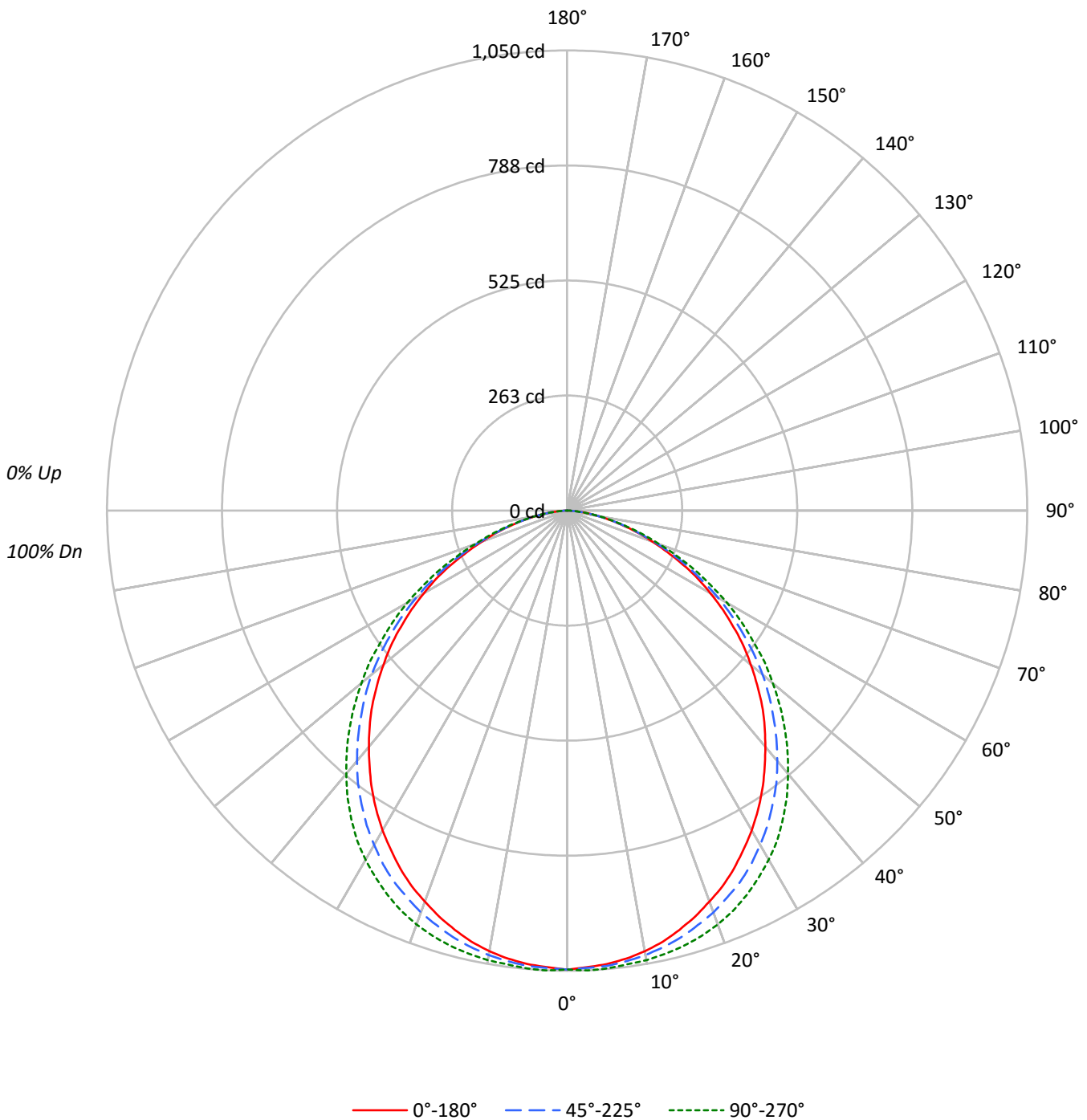
Input Watts (W): 25.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2818	2818	2818
5°	2806	2817	2833
10°	2790	2814	2846
15°	2759	2808	2865
20°	2718	2794	2878
25°	2676	2775	2875
30°	2618	2736	2859
35°	2552	2686	2821
40°	2472	2621	2754
45°	2394	2533	2672
50°	2290	2437	2566
55°	2175	2299	2423
60°	2031	2141	2267
65°	1854	1938	2049
70°	1623	1692	1761
75°	1384	1414	1475
80°	1111	1133	1156
85°	812	769	722



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.1	3.6
10°-20°	284.5	10.3
20°-30°	430.1	15.6
30°-40°	510.9	18.5
40°-50°	512.9	18.6
50°-60°	438.1	15.9
60°-70°	301.8	11.0
70°-80°	146.4	5.3
80°-90°	32.0	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°	813.8	29.5
0°-40°	1324.7	48.1
0°-60°	2275.8	82.6
0°-90°	2756.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2756.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1039	1039	1043	1046	1049	99
15°	990	995	1008	1021	1028	279
25°	901	908	935	960	968	415
35°	777	788	818	848	859	485
45°	629	638	666	693	702	484
55°	464	471	490	510	516	415
65°	291	291	304	317	322	288
75°	133	130	136	139	142	143
85°	26	26	25	23	23	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1043.0	1043.0	1044.4	1048.8	1050.3
5°	1038.6	1038.6	1043.0	1045.9	1048.8
7.5°	1031.3	1032.7	1037.1	1043.0	1044.4
10°	1021.0	1022.5	1029.8	1037.1	1041.5
12.5°	1007.8	1010.8	1019.6	1031.3	1035.6
15°	990.3	994.7	1007.8	1021.0	1028.3
17.5°	971.3	977.1	991.8	1010.8	1018.1
20°	949.3	956.7	975.7	996.1	1004.9
22.5°	927.4	933.2	955.2	978.6	988.8
25°	901.1	908.4	934.7	959.6	968.4
27.5°	871.8	882.1	909.8	936.2	944.9
30°	842.6	851.3	880.6	909.8	920.1
32.5°	810.4	819.2	851.3	880.6	892.3
35°	776.7	788.4	817.7	848.4	858.6
37.5°	740.2	753.3	784.0	810.4	823.5
40°	703.6	715.3	746.0	773.8	784.0
42.5°	667.0	677.3	706.5	735.8	744.5
45°	629.0	637.8	665.6	693.4	702.1
47.5°	588.0	598.3	624.6	648.0	658.2
50°	547.1	557.3	582.2	604.1	612.9
52.5°	507.6	513.4	536.8	557.3	567.6
55°	463.7	471.0	490.0	510.5	516.4
57.5°	421.3	425.7	444.7	462.2	471.0
60°	377.4	380.3	397.9	411.0	421.3
62.5°	336.4	336.4	349.6	364.2	370.1
65°	291.1	291.1	304.3	317.4	321.8
67.5°	247.2	250.1	258.9	269.1	272.1
70°	206.3	206.3	215.0	222.3	223.8
72.5°	169.7	168.2	172.6	178.5	181.4
75°	133.1	130.2	136.0	139.0	141.9
77.5°	100.9	99.5	102.4	105.3	105.3
80°	71.7	70.2	73.1	73.1	74.6
82.5°	46.8	48.3	48.3	46.8	45.3
85°	26.3	26.3	24.9	23.4	23.4
87.5°	8.8	8.8	8.8	10.2	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)