

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: P297129

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297129  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
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-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2268.0 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

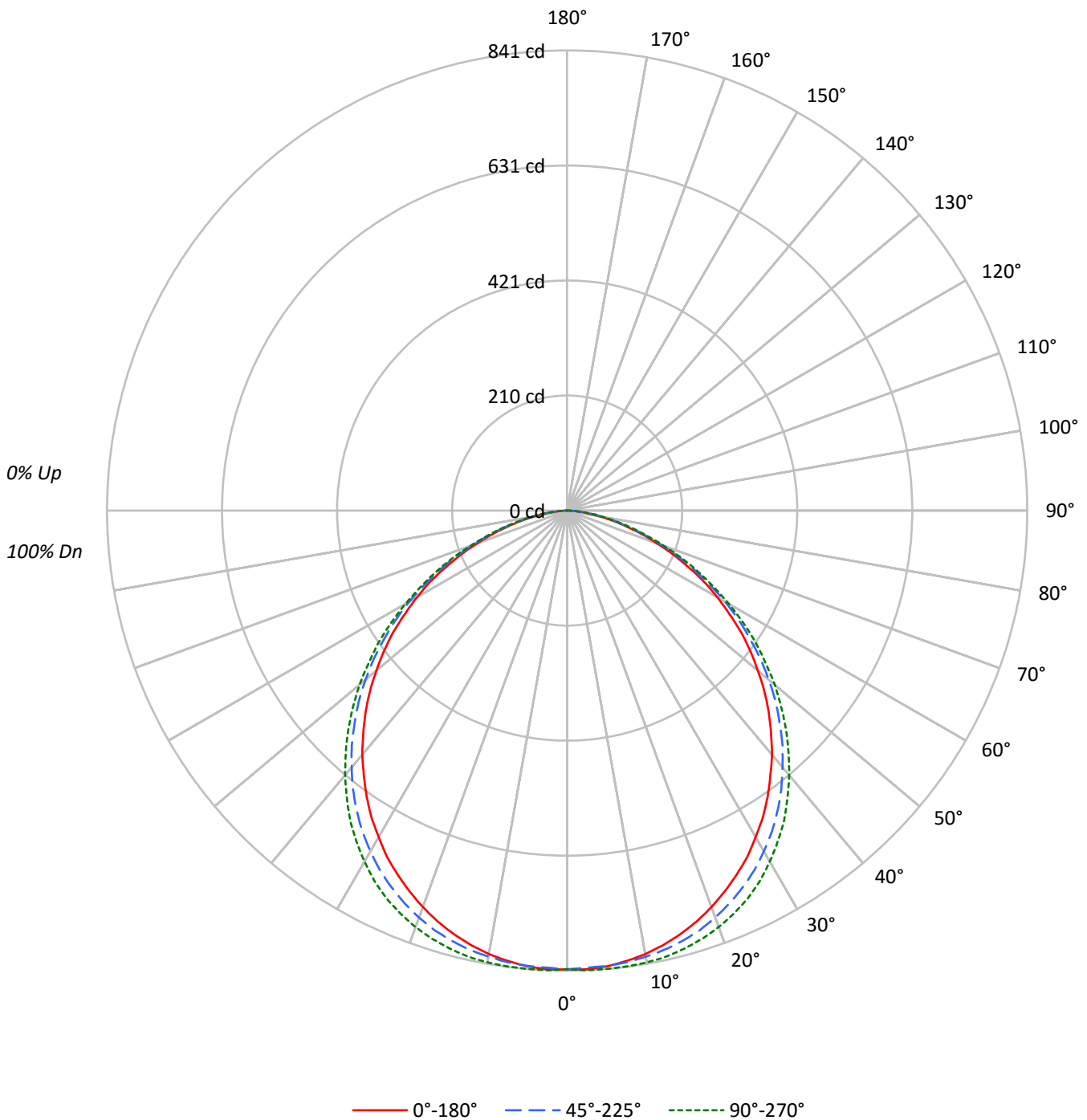
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	47	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

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

	0°	45°	90°
0°	1128	1128	1128
5°	1129	1128	1136
10°	1124	1131	1145
15°	1116	1134	1154
20°	1104	1133	1160
25°	1089	1128	1160
30°	1070	1117	1151
35°	1049	1101	1136
40°	1023	1076	1109
45°	991	1045	1076
50°	952	1007	1037
55°	911	957	987
60°	853	896	918
65°	778	820	840
70°	684	719	738
75°	579	608	630
80°	459	504	516
85°	313	377	364



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.7	3.5
10°-20°	230.0	10.1
20°-30°	349.5	15.4
30°-40°	417.1	18.4
40°-50°	421.2	18.6
50°-60°	362.9	16.0
60°-70°	253.0	11.2
70°-80°	125.4	5.5
80°-90°	29.2	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°	659.2	29.1
0°-40°	1076.3	47.5
0°-60°	1860.4	82.0
0°-90°	2268.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2268.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	838	838	838	838	838	
5°	836	835	835	839	841	79
15°	801	805	814	825	829	226
25°	734	743	760	775	782	338
35°	639	649	670	686	691	399
45°	521	532	549	562	566	401
55°	388	396	408	418	421	346
65°	244	249	258	260	264	243
75°	111	113	117	119	121	120
85°	20	24	24	23	24	26
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	838.4	838.4	838.4	838.4	838.4
2.5°	839.2	837.6	836.0	839.2	840.9
5°	836.0	835.2	835.2	839.2	840.9
7.5°	830.3	830.3	832.7	838.4	840.1
10°	823.0	824.6	827.9	836.0	838.4
12.5°	813.2	816.5	822.2	831.9	835.2
15°	801.1	805.1	814.1	824.6	828.7
17.5°	787.2	792.9	804.3	816.5	820.6
20°	771.0	778.3	791.3	805.1	810.0
22.5°	753.1	762.1	776.7	791.3	797.0
25°	733.6	743.4	759.6	775.1	781.6
27.5°	713.3	723.1	740.9	756.4	762.9
30°	688.9	700.3	719.0	735.3	740.9
32.5°	665.4	676.8	696.3	710.9	716.6
35°	638.6	649.1	670.3	685.7	691.4
37.5°	610.1	622.3	642.6	656.4	661.3
40°	582.5	593.1	612.6	626.4	631.3
42.5°	551.6	563.0	582.5	594.7	598.8
45°	520.8	532.1	549.2	562.2	565.5
47.5°	489.1	499.6	516.7	527.3	530.5
50°	455.0	464.7	481.0	491.5	495.6
52.5°	422.5	431.4	445.2	454.2	456.6
55°	388.3	396.5	407.8	417.6	420.8
57.5°	351.8	360.7	371.3	379.4	381.8
60°	316.8	324.2	333.1	340.4	341.2
62.5°	282.7	286.0	294.1	300.6	301.4
65°	244.5	249.4	257.5	260.0	264.0
67.5°	209.6	212.9	219.4	222.6	225.9
70°	173.9	176.3	182.8	186.9	187.7
72.5°	143.0	143.8	148.7	151.9	152.7
75°	111.3	112.9	117.0	119.4	121.1
77.5°	84.5	86.1	89.4	91.0	91.0
80°	59.3	61.7	65.0	65.8	66.6
82.5°	38.2	41.4	43.9	44.7	43.1
85°	20.3	24.4	24.4	22.7	23.6
87.5°	7.3	8.9	9.7	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)