

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: P298401

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L93050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2887.0 lumens  
Efficiency: N/A  
Efficacy: 115.0 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

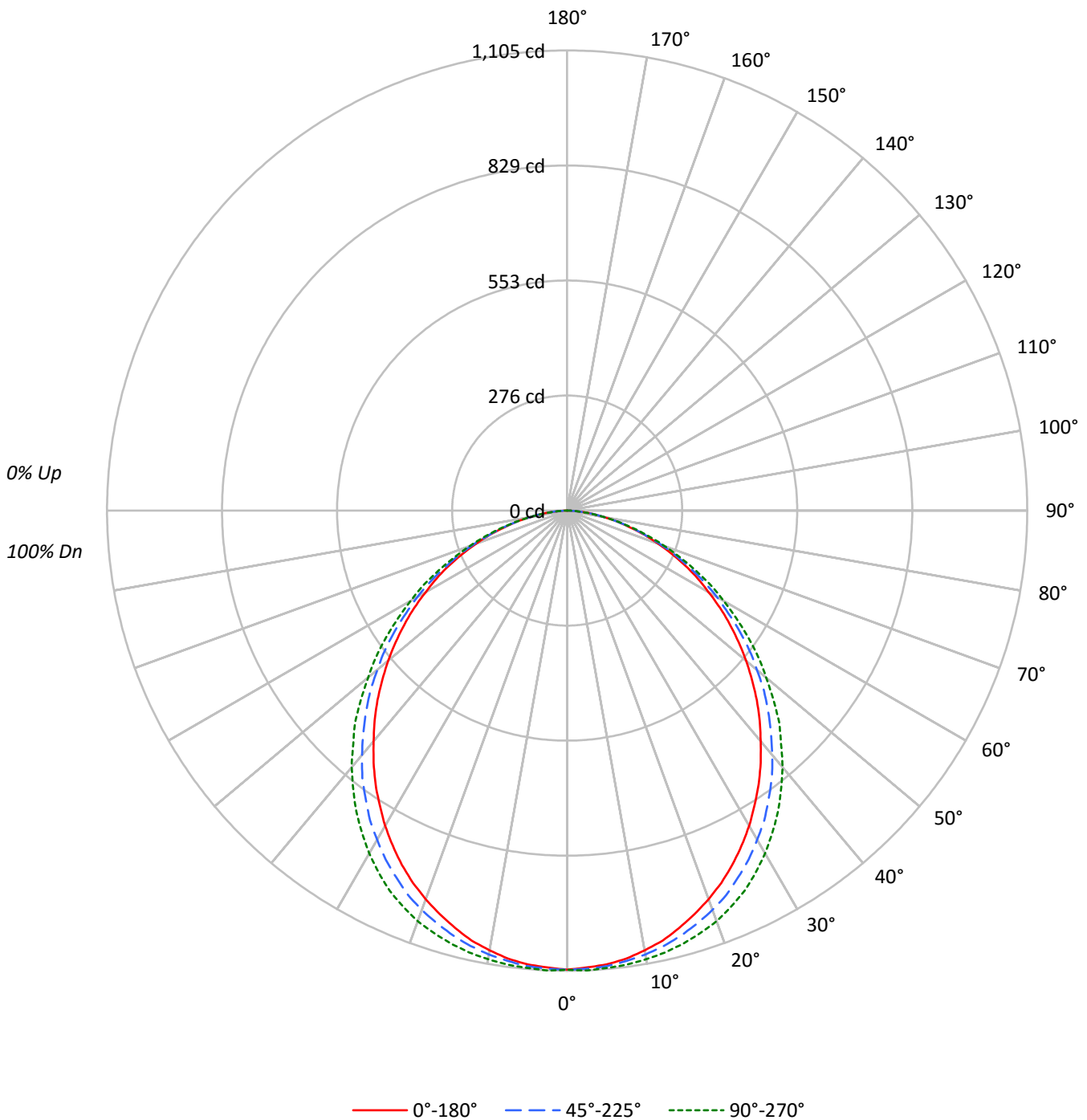
Input Watts (W): 25.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33
9	57	44	36	31	56	44	36	31	43	35	30	41	35	30	40	34	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

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

	0°	45°	90°
0°	2967	2967	2967
5°	2955	2967	2978
10°	2930	2958	2989
15°	2891	2943	2999
20°	2844	2923	3005
25°	2787	2885	2992
30°	2716	2836	2953
35°	2635	2772	2899
40°	2540	2692	2828
45°	2451	2598	2741
50°	2347	2491	2612
55°	2239	2374	2488
60°	2112	2236	2336
65°	1996	2069	2169
70°	1832	1889	1957
75°	1629	1674	1719
80°	1404	1381	1381
85°	1065	976	886



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	3.6
10°-20°	298.1	10.3
20°-30°	447.6	15.5
30°-40°	526.8	18.2
40°-50°	525.4	18.2
50°-60°	450.9	15.6
60°-70°	322.9	11.2
70°-80°	171.0	5.9
80°-90°	40.0	1.4
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°	850.0	29.4
0°-40°	1376.8	47.7
0°-60°	2353.1	81.5
0°-90°	2887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2887.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1094	1094	1098	1101	1102	104
15°	1038	1042	1056	1071	1077	293
25°	939	947	972	996	1008	432
35°	802	812	844	872	883	501
45°	644	654	683	707	720	496
55°	477	484	506	523	530	427
65°	313	315	325	338	341	310
75°	157	157	161	164	165	168
85°	34	33	32	29	29	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1102.5	1102.5	1102.5	1102.5	1102.5
2.5°	1098.2	1098.2	1101.1	1104.0	1105.4
5°	1093.9	1093.9	1098.2	1101.1	1102.5
7.5°	1085.3	1085.3	1091.0	1096.8	1099.6
10°	1072.3	1075.2	1082.4	1091.0	1093.9
12.5°	1058.0	1060.8	1070.9	1082.4	1086.7
15°	1037.8	1042.1	1056.5	1070.9	1076.6
17.5°	1016.3	1022.0	1039.3	1056.5	1063.7
20°	993.3	999.0	1020.6	1040.7	1049.3
22.5°	967.4	974.6	999.0	1020.6	1029.2
25°	938.7	947.3	971.7	996.1	1007.6
27.5°	907.0	917.1	944.4	970.3	980.3
30°	874.0	885.5	912.8	940.1	950.2
32.5°	838.0	848.1	881.2	907.0	917.1
35°	802.1	812.2	843.8	872.5	882.6
37.5°	763.3	776.2	807.8	833.7	843.8
40°	723.0	736.0	766.2	796.3	805.0
42.5°	684.2	695.7	724.5	751.8	760.4
45°	644.0	654.0	682.8	707.2	720.2
47.5°	602.3	612.4	641.1	664.1	671.3
50°	560.6	570.7	595.1	615.2	623.9
52.5°	518.9	529.0	552.0	570.7	579.3
55°	477.2	484.4	506.0	523.2	530.4
57.5°	435.5	441.3	458.5	477.2	481.5
60°	392.4	399.6	415.4	428.4	434.1
62.5°	353.6	356.5	370.9	382.4	389.5
65°	313.4	314.8	324.9	337.8	340.7
67.5°	271.7	273.1	283.2	290.4	293.2
70°	232.9	232.9	240.1	245.8	248.7
72.5°	195.5	194.1	198.4	204.1	207.0
75°	156.7	156.7	161.0	163.9	165.3
77.5°	123.6	120.7	123.6	126.5	126.5
80°	90.6	89.1	89.1	90.6	89.1
82.5°	61.8	60.4	61.8	58.9	57.5
85°	34.5	33.1	31.6	28.7	28.7
87.5°	11.5	10.1	10.1	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)