

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: P297269

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-31L83050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2930.0 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

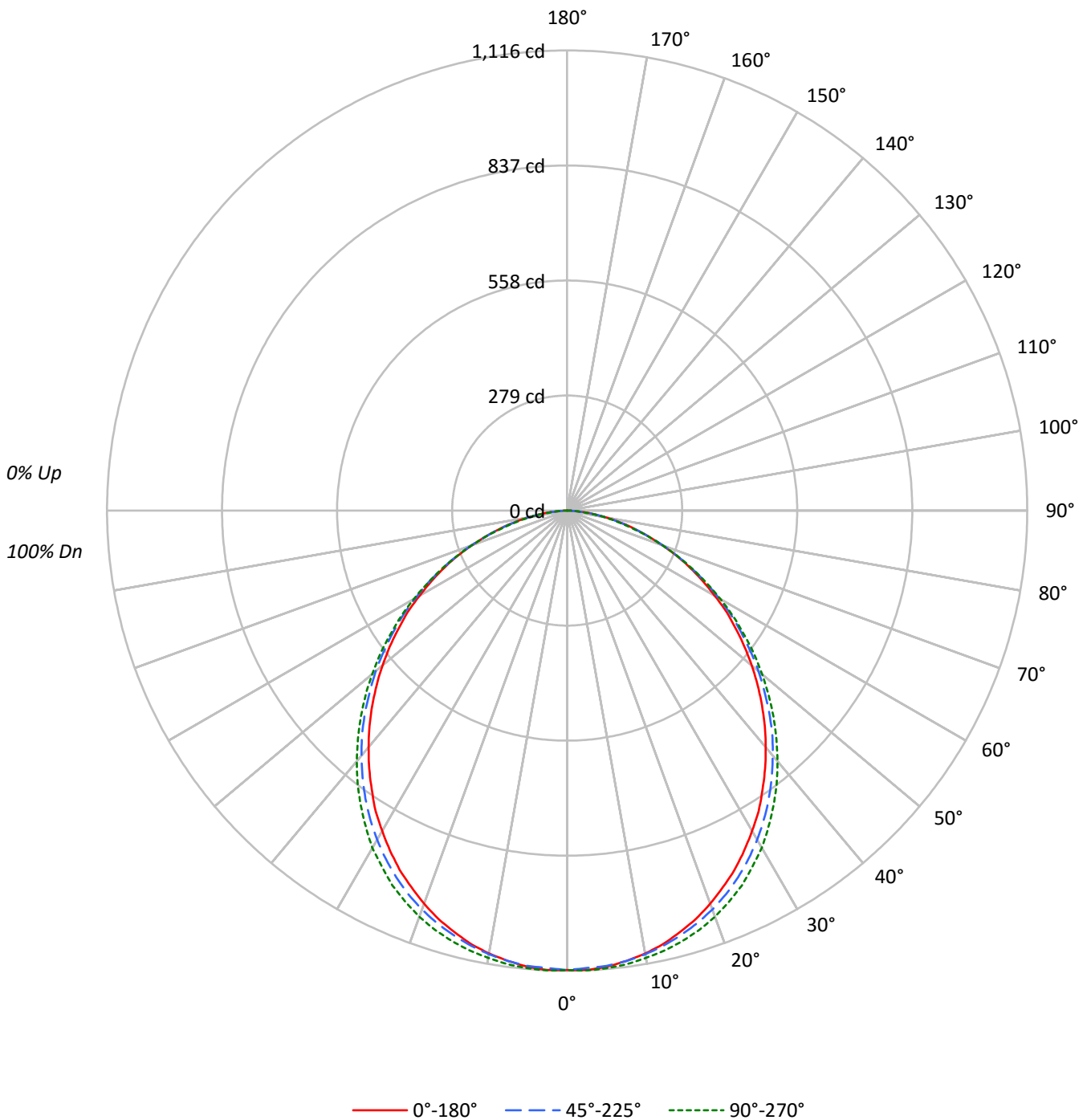
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	1499	1499	1499
5°	1500	1497	1505
10°	1490	1493	1505
15°	1474	1485	1506
20°	1453	1474	1501
25°	1427	1457	1489
30°	1394	1432	1468
35°	1357	1401	1433
40°	1316	1363	1394
45°	1271	1318	1347
50°	1223	1268	1291
55°	1171	1209	1227
60°	1113	1142	1155
65°	1050	1065	1072
70°	963	974	963
75°	867	862	836
80°	735	727	704
85°	548	533	472



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.5	3.6
10°-20°	301.4	10.3
20°-30°	451.9	15.4
30°-40°	532.2	18.2
40°-50°	532.3	18.2
50°-60°	459.2	15.7
60°-70°	330.5	11.3
70°-80°	175.3	6.0
80°-90°	41.8	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°	858.8	29.3
0°-40°	1391.0	47.5
0°-60°	2382.5	81.3
0°-90°	2930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1110	1109	1108	1112	1114	105
15°	1058	1061	1066	1077	1081	298
25°	961	967	981	998	1003	442
35°	826	836	853	868	872	517
45°	668	677	693	705	708	515
55°	499	504	515	524	523	447
65°	330	331	335	337	337	326
75°	167	165	166	162	161	177
85°	36	36	34	32	31	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1114.3	1114.3	1114.3	1114.3	1114.3
2.5°	1115.3	1113.3	1110.4	1114.3	1116.3
5°	1110.4	1109.4	1108.4	1112.4	1114.3
7.5°	1101.5	1102.5	1101.5	1107.4	1109.4
10°	1090.6	1091.6	1092.6	1099.5	1101.5
12.5°	1076.8	1077.8	1080.8	1089.7	1092.6
15°	1058.1	1061.0	1066.0	1076.8	1080.8
17.5°	1038.3	1042.3	1049.2	1062.0	1066.0
20°	1014.6	1019.6	1029.5	1043.3	1048.2
22.5°	988.0	992.9	1006.7	1021.6	1026.5
25°	961.3	967.3	981.1	997.9	1002.8
27.5°	929.8	937.7	952.5	969.2	973.2
30°	897.2	904.1	921.9	937.7	944.6
32.5°	864.6	871.5	888.3	904.1	909.0
35°	826.1	836.0	852.8	867.6	872.5
37.5°	788.6	797.5	815.3	830.1	835.0
40°	749.1	757.0	775.8	789.6	793.6
42.5°	709.7	717.6	736.3	747.2	751.1
45°	668.2	677.1	692.9	704.7	707.7
47.5°	626.8	633.7	648.5	659.3	663.3
50°	584.3	591.2	606.0	614.9	616.9
52.5°	541.9	546.8	560.6	568.5	571.5
55°	499.4	504.4	515.2	524.1	523.1
57.5°	459.0	460.9	471.8	477.7	477.7
60°	413.6	415.5	424.4	428.4	429.3
62.5°	371.1	374.1	381.0	382.0	382.0
65°	329.7	330.6	334.6	336.6	336.6
67.5°	288.2	287.2	291.2	291.2	290.2
70°	244.8	246.8	247.7	245.8	244.8
72.5°	205.3	204.3	204.3	203.3	203.3
75°	166.8	164.8	165.8	161.9	160.9
77.5°	131.3	128.3	127.3	125.4	123.4
80°	94.8	94.8	93.8	91.8	90.8
82.5°	63.2	63.2	62.2	60.2	58.2
85°	35.5	35.5	34.5	31.6	30.6
87.5°	11.8	11.8	11.8	11.8	11.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)