

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: P297843

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297843  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
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-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3307.0 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

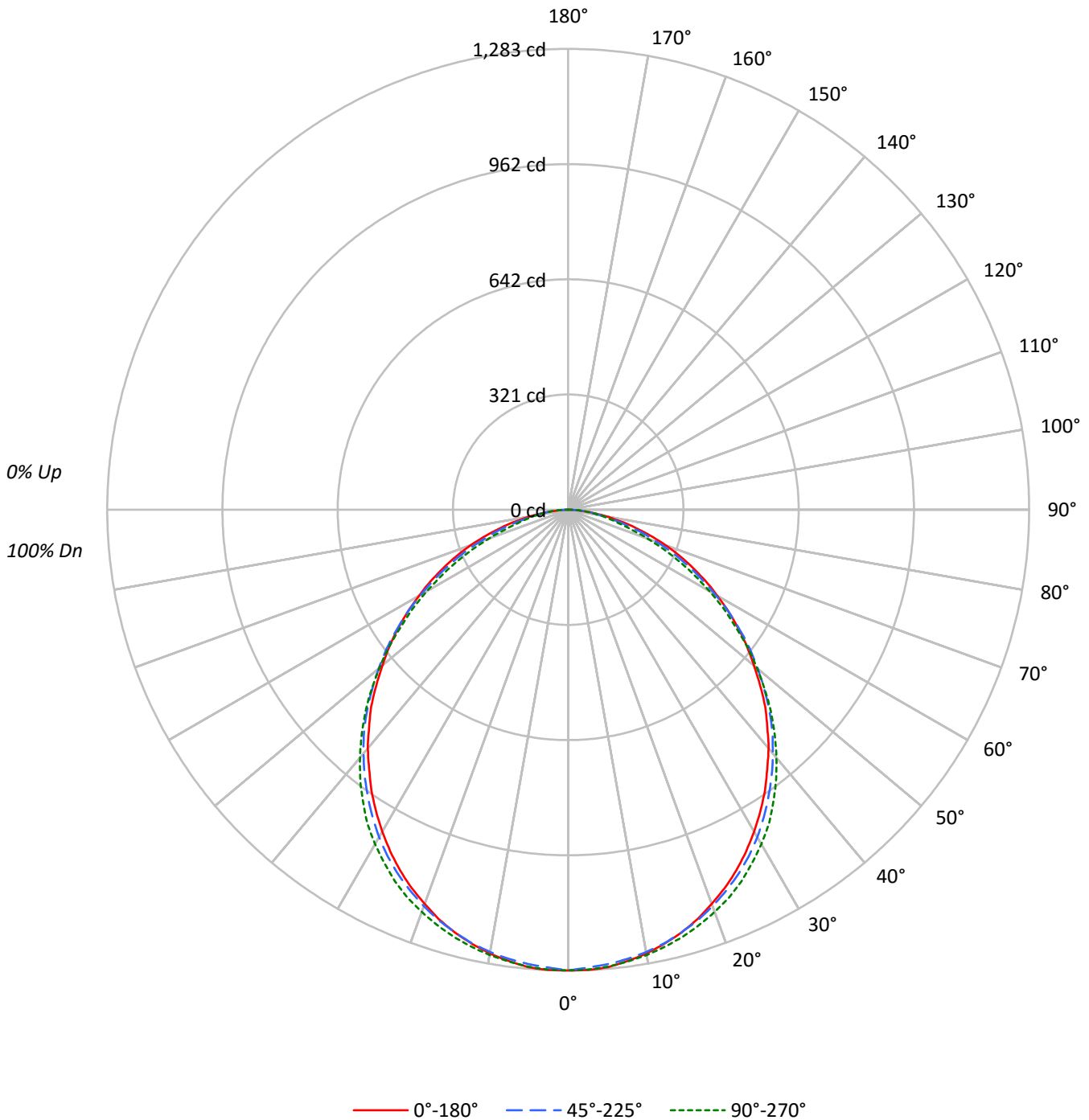
Input Watts (W): 29.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	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	46	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	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	3452	3452	3452
5°	3454	3431	3450
10°	3428	3417	3440
15°	3394	3394	3429
20°	3344	3364	3412
25°	3288	3326	3388
30°	3214	3271	3341
35°	3136	3196	3270
40°	3048	3112	3166
45°	2950	3014	3041
50°	2823	2882	2870
55°	2716	2736	2663
60°	2580	2542	2444
65°	2437	2339	2178
70°	2261	2073	1842
75°	2012	1778	1516
80°	1672	1455	1412
85°	1213	1300	1300



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	121.1	3.7
10°-20°	344.8	10.4
20°-30°	516.8	15.6
30°-40°	608.9	18.4
40°-50°	607.3	18.4
50°-60°	516.6	15.6
60°-70°	360.5	10.9
70°-80°	183.3	5.5
80°-90°	47.9	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°	982.7	29.7
0°-40°	1591.5	48.1
0°-60°	2715.4	82.1
0°-90°	3307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3307.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1283	1283	1283	1283	1283	
5°	1278	1276	1270	1277	1277	121
15°	1218	1218	1218	1229	1231	343
25°	1107	1109	1120	1137	1141	510
35°	955	956	973	992	995	596
45°	775	778	792	798	799	596
55°	579	579	583	575	568	517
65°	383	377	367	348	342	380
75°	194	186	171	150	146	205
85°	39	41	42	42	42	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1282.7	1282.7	1282.7	1282.7	1282.7
2.5°	1282.7	1281.3	1275.7	1281.3	1281.3
5°	1278.5	1275.7	1270.1	1277.1	1277.1
7.5°	1267.3	1265.8	1261.6	1268.7	1268.7
10°	1254.6	1253.2	1250.4	1258.8	1258.8
12.5°	1237.8	1237.8	1236.4	1244.8	1246.2
15°	1218.2	1218.2	1218.2	1229.4	1230.8
17.5°	1195.8	1194.4	1198.6	1211.2	1212.6
20°	1167.7	1169.1	1174.7	1188.7	1191.6
22.5°	1139.7	1141.1	1148.1	1164.9	1169.1
25°	1107.4	1108.8	1120.1	1136.9	1141.1
27.5°	1072.4	1075.2	1087.8	1106.0	1108.8
30°	1034.5	1037.4	1052.8	1071.0	1075.2
32.5°	995.3	999.5	1013.5	1033.1	1038.8
35°	954.6	956.0	972.9	992.5	995.3
37.5°	909.8	914.0	930.8	947.6	950.4
40°	867.7	870.5	886.0	900.0	901.4
42.5°	820.1	824.3	841.1	850.9	850.9
45°	775.2	778.0	792.0	797.6	799.0
47.5°	724.7	727.5	740.2	743.0	743.0
50°	674.3	681.3	688.3	688.3	685.5
52.5°	628.0	629.4	637.8	632.2	629.4
55°	579.0	579.0	583.2	574.7	567.7
57.5°	529.9	529.9	529.9	518.7	513.1
60°	479.4	478.0	472.4	458.4	454.2
62.5°	431.8	427.6	419.1	405.1	396.7
65°	382.7	377.1	367.3	347.7	342.0
67.5°	336.4	326.6	315.4	297.2	287.4
70°	287.4	279.0	263.5	242.5	234.1
72.5°	239.7	231.3	218.7	197.7	185.0
75°	193.5	186.4	171.0	150.0	145.8
77.5°	148.6	144.4	129.0	119.2	117.8
80°	107.9	106.5	93.9	91.1	91.1
82.5°	71.5	70.1	65.9	65.9	64.5
85°	39.3	40.7	42.1	42.1	42.1
87.5°	14.0	16.8	19.6	19.6	19.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)