

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: P297829

Luminaire Tested: **D3X-WO-23L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297829  
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-23L83050-LD5-UNV-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2237.0 lumens  
Efficiency: N/A  
Efficacy: 108.6 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

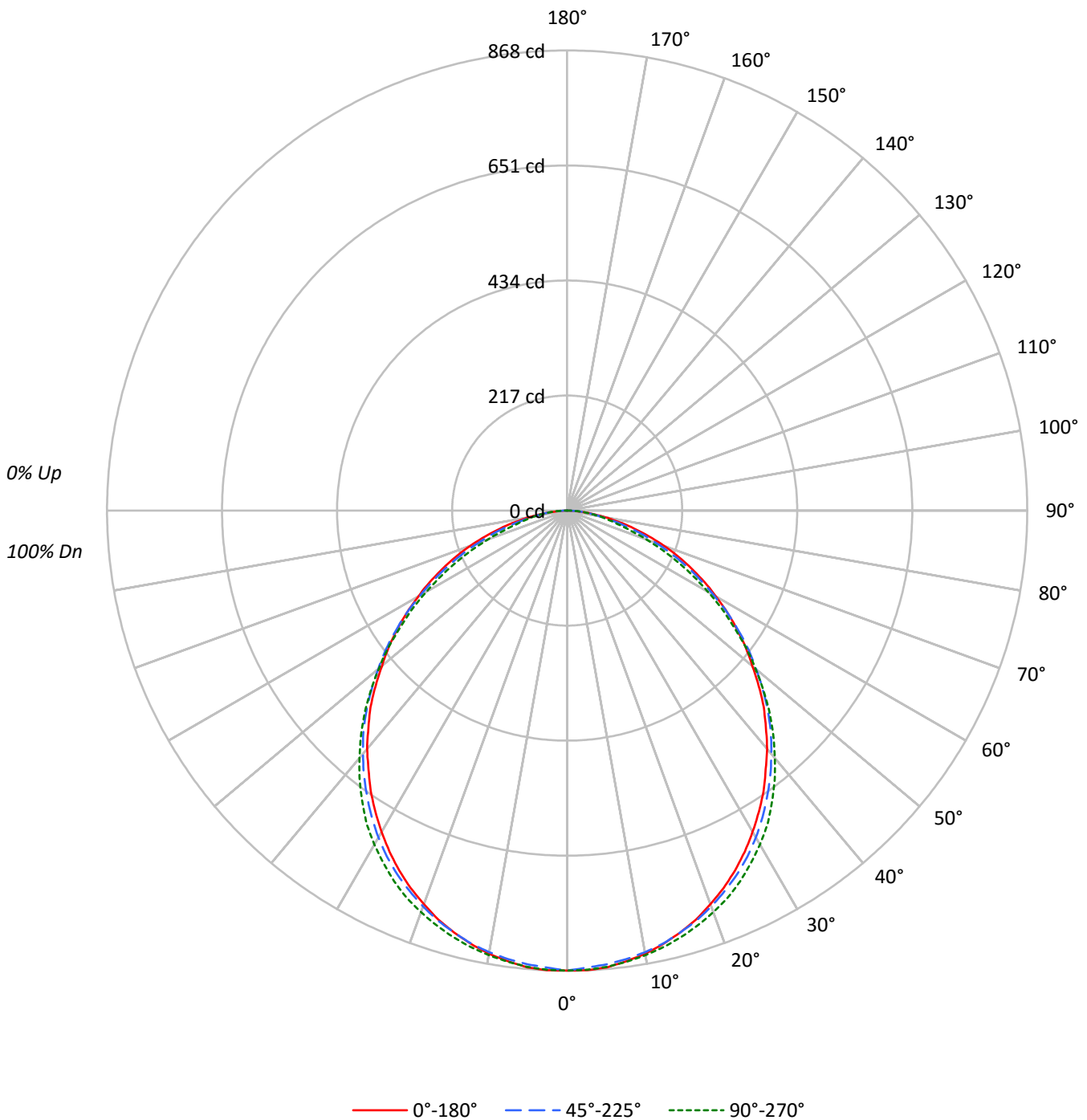
Input Watts (W): 20.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2335	2335	2335
5°	2336	2321	2334
10°	2319	2311	2327
15°	2296	2296	2320
20°	2262	2275	2308
25°	2224	2250	2292
30°	2174	2213	2260
35°	2122	2162	2212
40°	2062	2105	2142
45°	1996	2039	2057
50°	1909	1949	1941
55°	1837	1851	1802
60°	1745	1720	1653
65°	1649	1582	1473
70°	1530	1403	1246
75°	1361	1203	1025
80°	1131	984	955
85°	821	877	877



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.9	3.7
10°-20°	233.2	10.4
20°-30°	349.6	15.6
30°-40°	411.9	18.4
40°-50°	410.8	18.4
50°-60°	349.4	15.6
60°-70°	243.9	10.9
70°-80°	124.0	5.5
80°-90°	32.4	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°	664.7	29.7
0°-40°	1076.6	48.1
0°-60°	1836.8	82.1
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	865	863	859	864	864	82
15°	824	824	824	832	833	232
25°	749	750	758	769	772	345
35°	646	647	658	671	673	403
45°	524	526	536	540	540	403
55°	392	392	394	389	384	350
65°	259	255	248	235	231	257
75°	131	126	116	102	99	139
85°	27	28	28	28	28	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	867.7	867.7	867.7	867.7	867.7
2.5°	867.7	866.7	862.9	866.7	866.7
5°	864.8	862.9	859.1	863.9	863.9
7.5°	857.2	856.3	853.4	858.2	858.2
10°	848.7	847.7	845.8	851.5	851.5
12.5°	837.3	837.3	836.4	842.1	843.0
15°	824.0	824.0	824.0	831.6	832.6
17.5°	808.9	807.9	810.8	819.3	820.2
20°	789.9	790.8	794.6	804.1	806.0
22.5°	770.9	771.9	776.6	788.0	790.8
25°	749.1	750.1	757.7	769.0	771.9
27.5°	725.4	727.3	735.8	748.2	750.1
30°	699.8	701.7	712.1	724.5	727.3
32.5°	673.3	676.1	685.6	698.9	702.7
35°	645.8	646.7	658.1	671.4	673.3
37.5°	615.4	618.3	629.6	641.0	642.9
40°	587.0	588.9	599.3	608.8	609.7
42.5°	554.7	557.6	569.0	575.6	575.6
45°	524.4	526.3	535.8	539.6	540.5
47.5°	490.2	492.1	500.7	502.6	502.6
50°	456.1	460.9	465.6	465.6	463.7
52.5°	424.8	425.8	431.5	427.7	425.8
55°	391.6	391.6	394.5	388.8	384.0
57.5°	358.4	358.4	358.4	350.9	347.1
60°	324.3	323.4	319.6	310.1	307.2
62.5°	292.1	289.2	283.5	274.0	268.4
65°	258.9	255.1	248.4	235.2	231.4
67.5°	227.6	220.9	213.4	201.0	194.4
70°	194.4	188.7	178.3	164.0	158.4
72.5°	162.2	156.5	147.9	133.7	125.2
75°	130.9	126.1	115.7	101.5	98.6
77.5°	100.5	97.7	87.2	80.6	79.7
80°	73.0	72.1	63.5	61.6	61.6
82.5°	48.4	47.4	44.6	44.6	43.6
85°	26.6	27.5	28.4	28.4	28.4
87.5°	9.5	11.4	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)