

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: P297690

Luminaire Tested: **D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297690  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2244.0 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

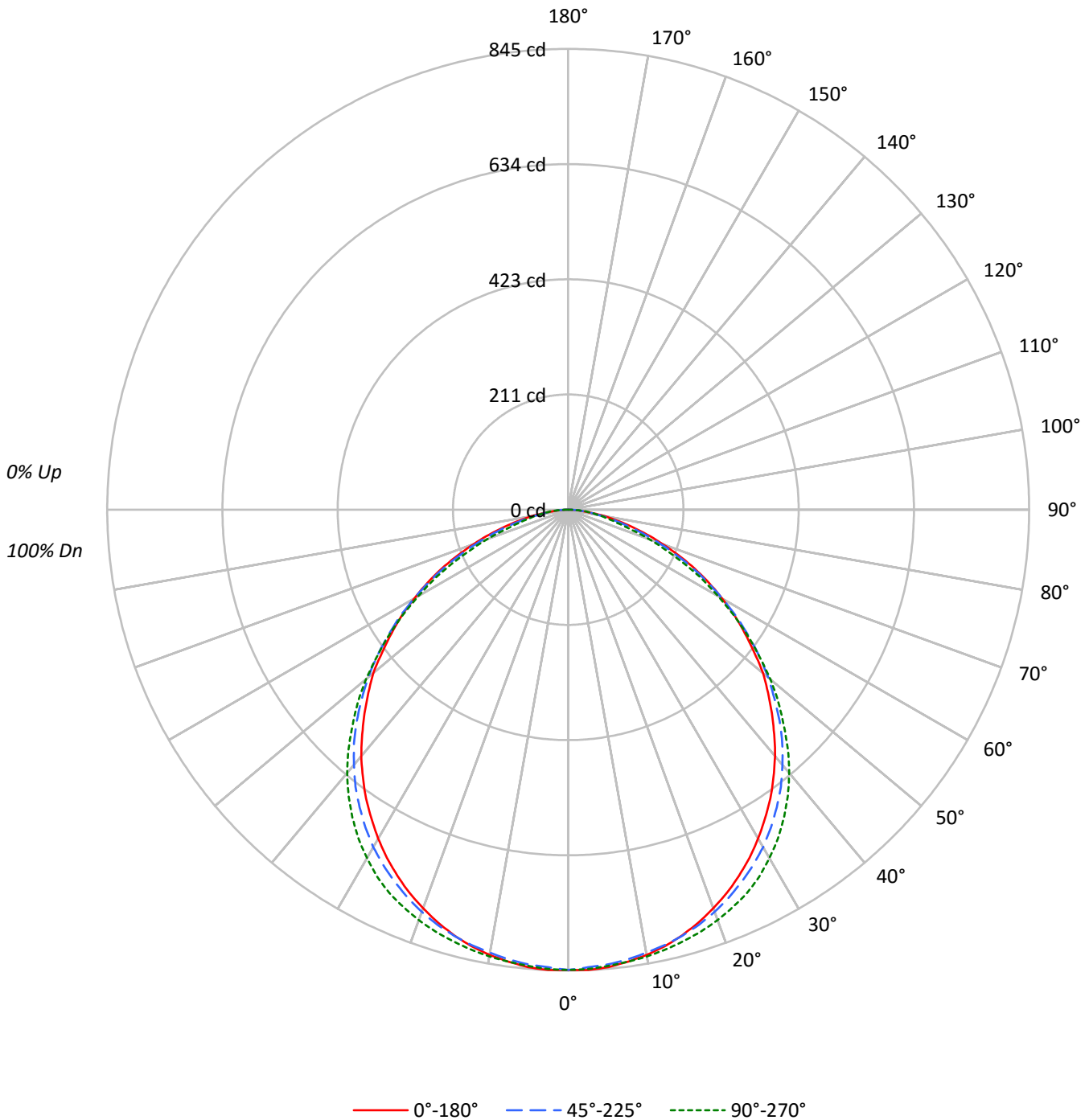
Input Watts (W): 20.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297690

CATALOG NUMBER: D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297690

CATALOG NUMBER: D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3500K

**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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	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	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	2271	2271	2271
5°	2274	2261	2269
10°	2265	2254	2273
15°	2250	2253	2281
20°	2227	2247	2293
25°	2199	2235	2303
30°	2164	2220	2292
35°	2123	2189	2265
40°	2073	2147	2214
45°	2009	2085	2127
50°	1953	2004	2025
55°	1855	1893	1883
60°	1755	1755	1707
65°	1629	1591	1501
70°	1445	1382	1247
75°	1252	1137	960
80°	1026	886	871
85°	682	806	868



TEST NUMBER: P297690

CATALOG NUMBER: D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.8	3.6
10°-20°	229.0	10.2
20°-30°	348.1	15.5
30°-40°	416.8	18.6
40°-50°	420.4	18.7
50°-60°	358.1	16.0
60°-70°	244.9	10.9
70°-80°	117.2	5.2
80°-90°	29.7	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°	656.9	29.3
0°-40°	1073.7	47.8
0°-60°	1852.2	82.5
0°-90°	2244.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2244.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	844	844	844	844	844	
5°	842	841	837	841	840	80
15°	808	806	809	818	819	228
25°	741	742	753	770	776	341
35°	646	648	666	685	689	404
45°	528	532	548	559	559	408
55°	395	397	403	404	401	354
65°	256	251	250	241	236	252
75°	120	118	109	95	92	129
85°	22	24	26	27	28	28
90°	0	0	0	0	0	



TEST NUMBER: P297690

CATALOG NUMBER: D3X-WG-23L83050-LD5-UNV-14-T1-W2A-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	843.9	843.9	843.9	843.9	843.9
2.5°	844.9	843.9	839.9	843.9	842.9
5°	841.9	840.9	836.9	840.9	839.9
7.5°	835.9	834.9	831.9	835.9	835.9
10°	828.9	826.9	824.9	830.9	831.9
12.5°	819.8	817.8	817.8	824.9	825.9
15°	807.8	805.8	808.8	817.8	818.8
17.5°	793.8	792.7	797.8	808.8	810.8
20°	777.7	776.7	784.7	797.8	800.8
22.5°	760.6	760.6	769.7	784.7	788.7
25°	740.6	741.6	752.6	769.7	775.7
27.5°	719.5	721.5	734.5	753.6	758.6
30°	696.4	699.4	714.5	732.5	737.6
32.5°	671.3	674.3	691.4	710.5	715.5
35°	646.2	648.2	666.3	685.4	689.4
37.5°	618.1	621.2	640.2	657.3	661.3
40°	590.0	593.1	611.1	627.2	630.2
42.5°	558.9	563.0	581.0	594.1	596.1
45°	527.8	531.8	547.9	558.9	558.9
47.5°	496.7	498.7	512.8	523.8	522.8
50°	466.6	465.6	478.7	483.7	483.7
52.5°	429.5	432.5	441.5	444.5	441.5
55°	395.4	397.4	403.4	404.4	401.4
57.5°	362.3	361.3	366.3	363.3	359.2
60°	326.1	326.1	326.1	323.1	317.1
62.5°	291.0	289.0	288.0	281.0	278.0
65°	255.9	250.9	249.9	240.8	235.8
67.5°	218.8	216.8	211.7	202.7	193.7
70°	183.6	181.6	175.6	164.6	158.5
72.5°	151.5	149.5	141.5	128.4	120.4
75°	120.4	118.4	109.4	95.3	92.3
77.5°	91.3	90.3	81.3	74.3	73.3
80°	66.2	65.2	57.2	57.2	56.2
82.5°	42.1	42.1	40.1	41.1	42.1
85°	22.1	24.1	26.1	27.1	28.1
87.5°	7.0	11.0	13.0	14.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)