

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: P297552

Luminaire Tested: **D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297552  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2382.0 lumens  
Efficiency: N/A  
Efficacy: 109.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

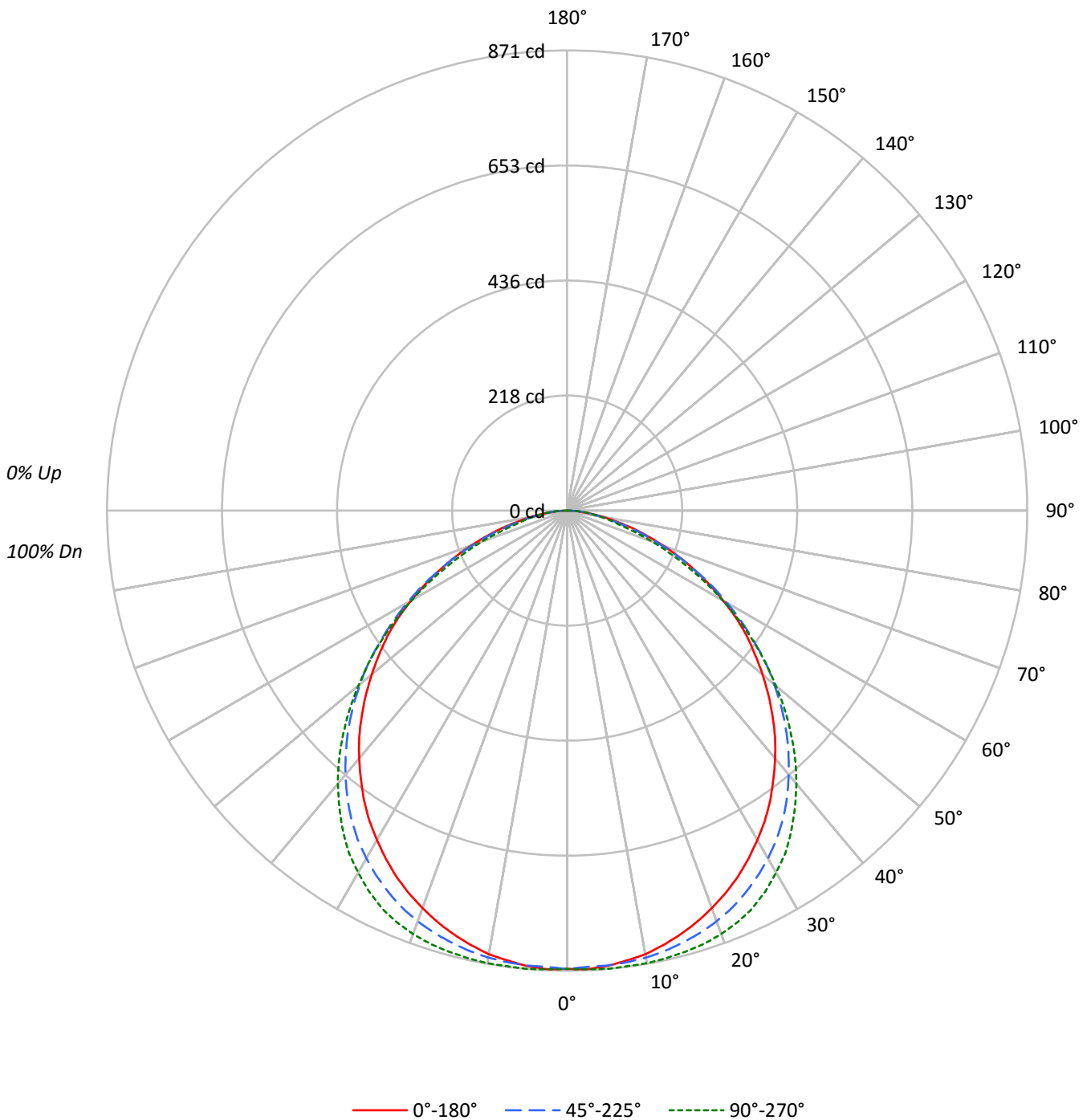
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297552

CATALOG NUMBER: D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297552

CATALOG NUMBER: D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4500K

**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	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2335	2335	2335
5°	2338	2335	2352
10°	2330	2347	2377
15°	2313	2358	2408
20°	2293	2369	2442
25°	2270	2371	2466
30°	2237	2362	2458
35°	2201	2340	2431
40°	2151	2294	2372
45°	2092	2230	2282
50°	2021	2141	2159
55°	1950	2025	2016
60°	1837	1877	1831
65°	1692	1699	1605
70°	1515	1481	1347
75°	1315	1227	1039
80°	1054	956	956
85°	756	886	920



TEST NUMBER: P297552

CATALOG NUMBER: D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.5	3.5
10°-20°	239.5	10.1
20°-30°	367.7	15.4
30°-40°	442.9	18.6
40°-50°	447.6	18.8
50°-60°	381.8	16.0
60°-70°	261.3	11.0
70°-80°	126.1	5.3
80°-90°	32.5	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°	689.8	29.0
0°-40°	1132.7	47.6
0°-60°	1962.0	82.4
0°-90°	2382.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2382.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	868	868	868	868	868	
5°	866	866	864	870	871	82
15°	830	837	846	861	864	234
25°	764	776	798	822	830	352
35°	670	685	712	735	740	419
45°	550	565	586	600	600	424
55°	416	423	432	434	430	370
65°	266	269	267	257	252	264
75°	126	126	118	104	100	134
85°	24	27	29	30	30	30
90°	0	0	0	0	0	



TEST NUMBER: P297552

CATALOG NUMBER: D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	867.6	867.6	867.6	867.6	867.6
2.5°	868.7	867.6	864.4	868.7	868.7
5°	865.5	865.5	864.4	869.8	870.8
7.5°	859.1	861.3	862.3	868.7	869.8
10°	852.7	854.9	859.1	867.6	869.8
12.5°	842.1	846.4	853.8	865.5	867.6
15°	830.4	836.8	846.4	861.3	864.4
17.5°	816.6	825.1	837.9	854.9	860.2
20°	800.6	810.2	827.2	846.4	852.7
22.5°	783.6	794.3	814.5	836.8	843.2
25°	764.5	776.2	798.5	821.9	830.4
27.5°	743.2	756.0	780.4	804.9	812.3
30°	719.8	733.7	760.2	784.7	791.1
32.5°	696.4	710.3	737.9	761.3	768.7
35°	669.9	684.8	712.4	734.7	740.0
37.5°	641.2	656.0	683.7	706.0	708.1
40°	612.4	627.3	652.9	673.1	675.2
42.5°	582.7	596.5	619.9	636.9	639.0
45°	549.7	564.6	585.9	599.7	599.7
47.5°	516.8	531.6	549.7	559.3	559.3
50°	482.7	496.6	511.4	516.8	515.7
52.5°	448.7	461.5	474.2	475.3	473.2
55°	415.7	423.2	431.7	433.8	429.6
57.5°	379.6	386.0	391.3	388.1	384.9
60°	341.3	347.7	348.8	343.4	340.2
62.5°	304.1	309.4	309.4	300.9	295.6
65°	265.8	269.0	266.9	257.3	252.0
67.5°	229.7	231.8	227.5	218.0	209.5
70°	192.5	193.5	188.2	176.5	171.2
72.5°	158.4	159.5	153.1	139.3	132.9
75°	126.5	126.5	118.0	104.2	99.9
77.5°	94.6	97.8	88.3	80.8	80.8
80°	68.0	71.2	61.7	62.7	61.7
82.5°	44.7	47.8	44.7	44.7	44.7
85°	24.5	26.6	28.7	29.8	29.8
87.5°	7.4	12.8	13.8	14.9	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)