

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: P297856

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297856  
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-23L82765-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2312.0 lumens  
Efficiency: N/A  
Efficacy: 111.7 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

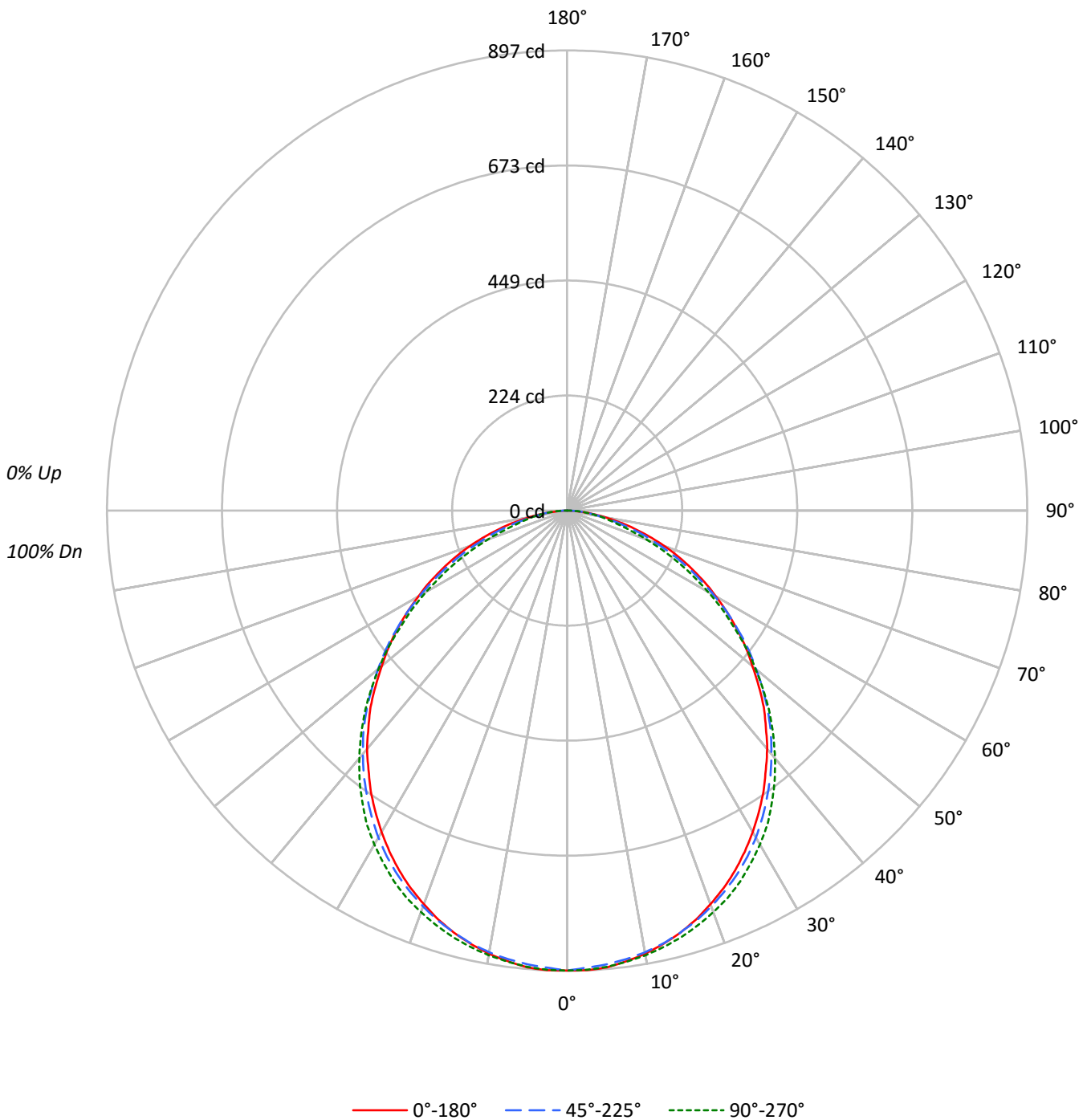
Input Watts (W): 20.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2413	2413	2413
5°	2414	2398	2412
10°	2397	2389	2405
15°	2373	2373	2397
20°	2338	2352	2385
25°	2299	2325	2369
30°	2247	2287	2336
35°	2192	2235	2286
40°	2131	2176	2214
45°	2063	2107	2126
50°	1973	2015	2006
55°	1899	1913	1862
60°	1804	1778	1709
65°	1704	1635	1522
70°	1581	1449	1288
75°	1406	1243	1059
80°	1170	1018	987
85°	846	908	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.7
10°-20°	241.1	10.4
20°-30°	361.3	15.6
30°-40°	425.7	18.4
40°-50°	424.6	18.4
50°-60°	361.1	15.6
60°-70°	252.0	10.9
70°-80°	128.1	5.5
80°-90°	33.5	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°	687.0	29.7
0°-40°	1112.7	48.1
0°-60°	1898.4	82.1
0°-90°	2312.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2312.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	894	892	888	893	893	85
15°	852	852	852	860	860	240
25°	774	775	783	795	798	356
35°	667	668	680	694	696	417
45°	542	544	554	558	559	417
55°	405	405	408	402	397	362
65°	268	264	257	243	239	265
75°	135	130	120	105	102	144
85°	27	28	29	29	29	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	896.7	896.7	896.7	896.7	896.7
2.5°	896.7	895.8	891.8	895.8	895.8
5°	893.8	891.8	887.9	892.8	892.8
7.5°	886.0	885.0	882.0	886.9	886.9
10°	877.1	876.2	874.2	880.1	880.1
12.5°	865.4	865.4	864.4	870.3	871.3
15°	851.7	851.7	851.7	859.5	860.5
17.5°	836.0	835.0	837.9	846.8	847.7
20°	816.4	817.4	821.3	831.1	833.0
22.5°	796.8	797.8	802.7	814.4	817.4
25°	774.2	775.2	783.1	794.8	797.8
27.5°	749.7	751.7	760.5	773.3	775.2
30°	723.3	725.2	736.0	748.8	751.7
32.5°	695.8	698.8	708.6	722.3	726.2
35°	667.4	668.4	680.2	693.9	695.8
37.5°	636.1	639.0	650.8	662.5	664.5
40°	606.7	608.6	619.4	629.2	630.2
42.5°	573.3	576.3	588.0	594.9	594.9
45°	542.0	543.9	553.7	557.6	558.6
47.5°	506.7	508.6	517.5	519.4	519.4
50°	471.4	476.3	481.2	481.2	479.2
52.5°	439.1	440.0	445.9	442.0	440.0
55°	404.8	404.8	407.7	401.8	396.9
57.5°	370.5	370.5	370.5	362.6	358.7
60°	335.2	334.2	330.3	320.5	317.5
62.5°	301.9	298.9	293.0	283.2	277.4
65°	267.6	263.6	256.8	243.1	239.1
67.5°	235.2	228.4	220.5	207.8	200.9
70°	200.9	195.0	184.2	169.5	163.7
72.5°	167.6	161.7	152.9	138.2	129.4
75°	135.2	130.3	119.6	104.9	101.9
77.5°	103.9	100.9	90.2	83.3	82.3
80°	75.5	74.5	65.7	63.7	63.7
82.5°	50.0	49.0	46.1	46.1	45.1
85°	27.4	28.4	29.4	29.4	29.4
87.5°	9.8	11.8	13.7	13.7	13.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)