

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: P297619

Luminaire Tested: **D3X-WD-23L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297619  
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-23L93050-LD5-UNV-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1749.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 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

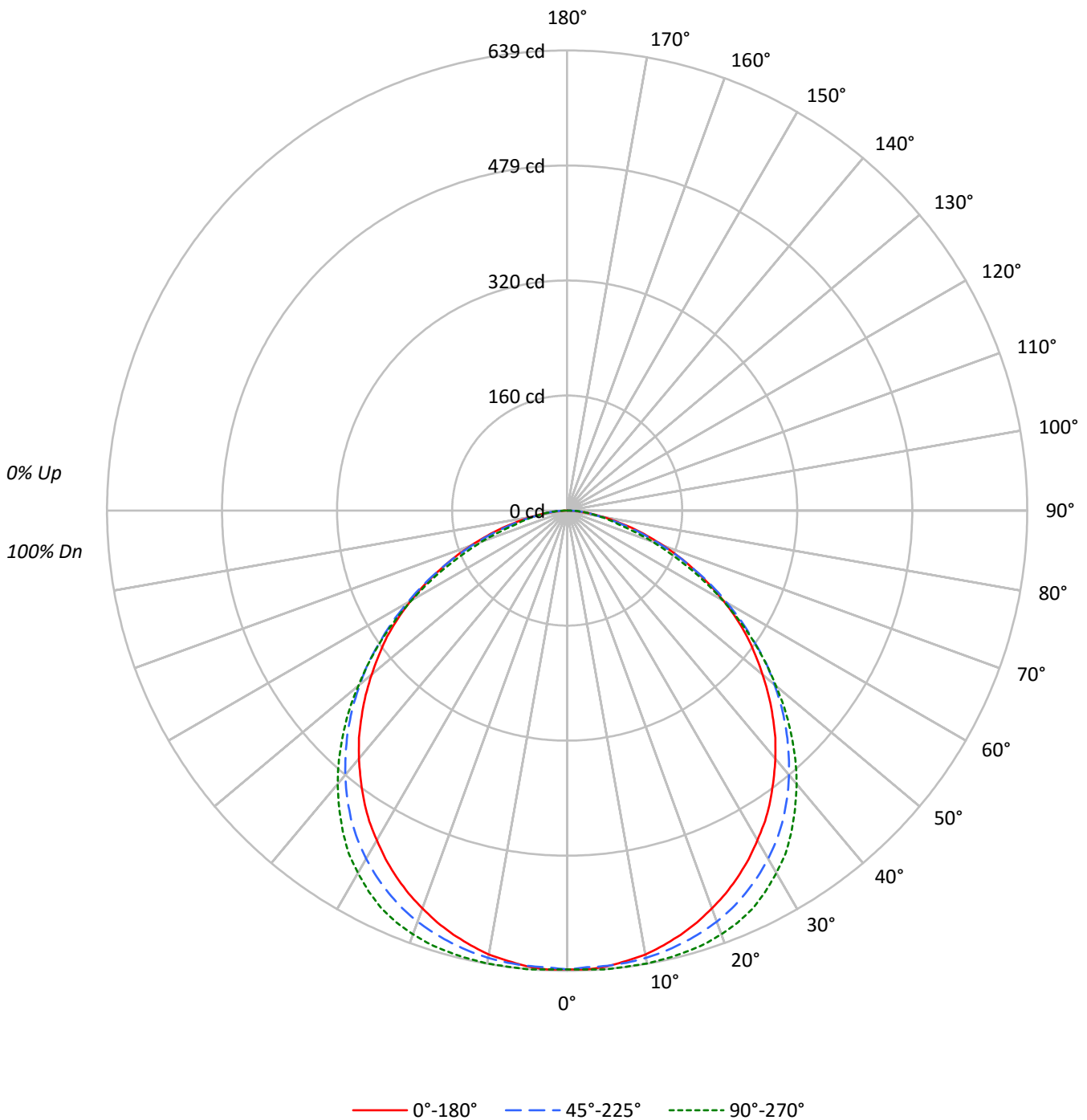
Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1714	1714	1714
5°	1717	1714	1727
10°	1711	1724	1745
15°	1699	1731	1768
20°	1684	1739	1793
25°	1667	1741	1810
30°	1642	1734	1805
35°	1616	1718	1785
40°	1580	1684	1742
45°	1536	1637	1676
50°	1484	1572	1585
55°	1432	1487	1480
60°	1349	1378	1344
65°	1243	1248	1178
70°	1112	1087	989
75°	966	901	763
80°	775	702	702
85°	556	651	676



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	3.5
10°-20°	175.9	10.1
20°-30°	270.0	15.4
30°-40°	325.2	18.6
40°-50°	328.6	18.8
50°-60°	280.3	16.0
60°-70°	191.9	11.0
70°-80°	92.6	5.3
80°-90°	23.9	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°	506.5	29.0
0°-40°	831.7	47.6
0°-60°	1440.6	82.4
0°-90°	1749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1749.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	637	637	637	637	637	
5°	636	636	635	639	639	60
15°	610	614	622	632	635	172
25°	561	570	586	604	610	258
35°	492	503	523	540	543	307
45°	404	415	430	440	440	311
55°	305	311	317	318	315	272
65°	195	198	196	189	185	194
75°	93	93	87	76	73	99
85°	18	20	21	22	22	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	637.1	637.1	637.1	637.1	637.1
2.5°	637.8	637.1	634.7	637.8	637.8
5°	635.5	635.5	634.7	638.6	639.4
7.5°	630.8	632.4	633.2	637.8	638.6
10°	626.1	627.7	630.8	637.1	638.6
12.5°	618.3	621.5	626.9	635.5	637.1
15°	609.7	614.4	621.5	632.4	634.7
17.5°	599.6	605.8	615.2	627.7	631.6
20°	587.9	594.9	607.4	621.5	626.1
22.5°	575.4	583.2	598.0	614.4	619.1
25°	561.3	569.9	586.3	603.5	609.7
27.5°	545.7	555.1	573.0	591.0	596.5
30°	528.5	538.7	558.2	576.2	580.9
32.5°	511.4	521.5	541.8	559.0	564.5
35°	491.9	502.8	523.1	539.5	543.4
37.5°	470.8	481.7	502.0	518.4	520.0
40°	449.7	460.6	479.4	494.2	495.8
42.5°	427.8	438.0	455.2	467.7	469.2
45°	403.6	414.6	430.2	440.3	440.3
47.5°	379.4	390.4	403.6	410.7	410.7
50°	354.4	364.6	375.5	379.4	378.6
52.5°	329.5	338.8	348.2	349.0	347.4
55°	305.3	310.7	317.0	318.5	315.4
57.5°	278.7	283.4	287.3	285.0	282.6
60°	250.6	255.3	256.1	252.2	249.8
62.5°	223.3	227.2	227.2	220.9	217.0
65°	195.2	197.5	196.0	188.9	185.0
67.5°	168.6	170.2	167.1	160.0	153.8
70°	141.3	142.1	138.2	129.6	125.7
72.5°	116.3	117.1	112.4	102.3	97.6
75°	92.9	92.9	86.7	76.5	73.4
77.5°	69.5	71.8	64.8	59.3	59.3
80°	50.0	52.3	45.3	46.1	45.3
82.5°	32.8	35.1	32.8	32.8	32.8
85°	18.0	19.5	21.1	21.9	21.9
87.5°	5.5	9.4	10.1	10.9	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)