

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: P297620

Luminaire Tested: **D3X-WD-23L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297620  
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-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1910.0 lumens  
Efficiency: N/A  
Efficacy: 91.0 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

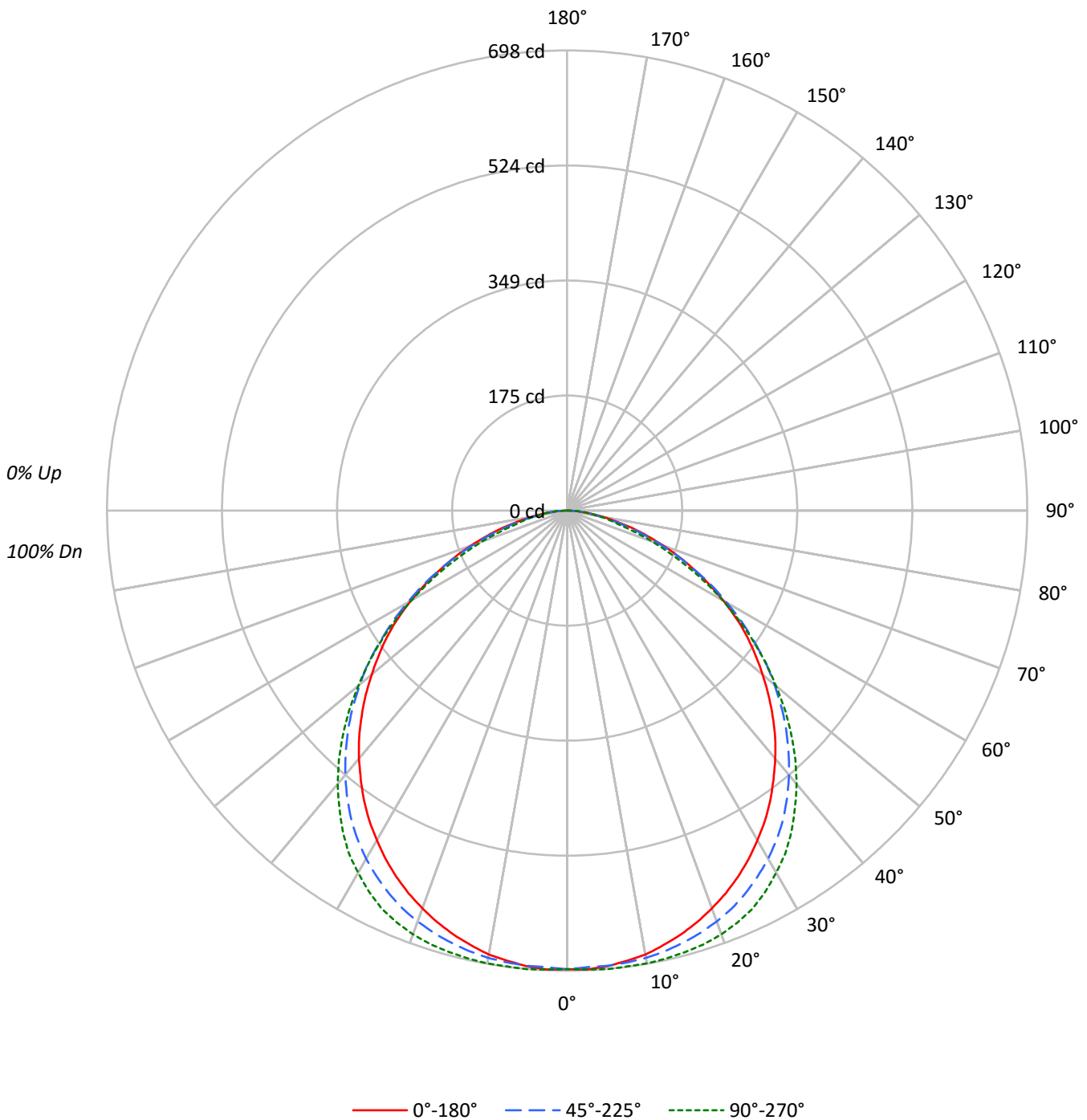
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71					71			
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25					25			

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

	0°	45°	90°
0°	1872	1872	1872
5°	1875	1873	1886
10°	1868	1882	1906
15°	1855	1891	1931
20°	1838	1899	1958
25°	1820	1901	1977
30°	1794	1894	1971
35°	1764	1876	1949
40°	1725	1839	1902
45°	1678	1788	1830
50°	1621	1717	1731
55°	1564	1624	1616
60°	1473	1505	1468
65°	1357	1363	1287
70°	1214	1187	1080
75°	1055	984	833
80°	846	767	767
85°	605	710	738



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	3.5
10°-20°	192.0	10.1
20°-30°	294.9	15.4
30°-40°	355.1	18.6
40°-50°	358.9	18.8
50°-60°	306.1	16.0
60°-70°	209.6	11.0
70°-80°	101.1	5.3
80°-90°	26.1	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°	553.1	29.0
0°-40°	908.2	47.6
0°-60°	1573.3	82.4
0°-90°	1910.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1910.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	696	696	696	696	696	
5°	694	694	693	697	698	66
15°	666	671	679	691	693	188
25°	613	622	640	659	666	282
35°	537	549	571	589	593	336
45°	441	453	470	481	481	340
55°	333	339	346	348	344	297
65°	213	216	214	206	202	211
75°	102	102	95	84	80	108
85°	20	21	23	24	24	24
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	695.7	695.7	695.7	695.7	695.7
2.5°	696.6	695.7	693.2	696.6	696.6
5°	694.0	694.0	693.2	697.4	698.3
7.5°	688.9	690.6	691.4	696.6	697.4
10°	683.8	685.5	688.9	695.7	697.4
12.5°	675.2	678.7	684.6	694.0	695.7
15°	665.9	671.0	678.7	690.6	693.2
17.5°	654.8	661.6	671.8	685.5	689.7
20°	642.0	649.7	663.3	678.7	683.8
22.5°	628.4	636.9	653.1	671.0	676.1
25°	613.0	622.4	640.3	659.0	665.9
27.5°	596.0	606.2	625.8	645.4	651.4
30°	577.2	588.3	609.6	629.2	634.3
32.5°	558.4	569.5	591.7	610.5	616.4
35°	537.1	549.1	571.2	589.1	593.4
37.5°	514.1	526.0	548.2	566.1	567.8
40°	491.1	503.0	523.5	539.7	541.4
42.5°	467.2	478.3	497.1	510.7	512.4
45°	440.8	452.7	469.8	480.9	480.9
47.5°	414.4	426.3	440.8	448.5	448.5
50°	387.1	398.2	410.1	414.4	413.5
52.5°	359.8	370.0	380.3	381.1	379.4
55°	333.4	339.3	346.2	347.9	344.4
57.5°	304.4	309.5	313.8	311.2	308.6
60°	273.7	278.8	279.6	275.4	272.8
62.5°	243.8	248.1	248.1	241.3	237.0
65°	213.1	215.7	214.0	206.3	202.1
67.5°	184.2	185.9	182.5	174.8	168.0
70°	154.3	155.2	150.9	141.5	137.3
72.5°	127.0	127.9	122.8	111.7	106.6
75°	101.5	101.5	94.6	83.6	80.1
77.5°	75.9	78.4	70.8	64.8	64.8
80°	54.6	57.1	49.5	50.3	49.5
82.5°	35.8	38.4	35.8	35.8	35.8
85°	19.6	21.3	23.0	23.9	23.9
87.5°	6.0	10.2	11.1	11.9	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)