

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: P297579

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297579  
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-23L82765-LD5-UNV-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2314.0 lumens  
Efficiency: N/A  
Efficacy: 109.7 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

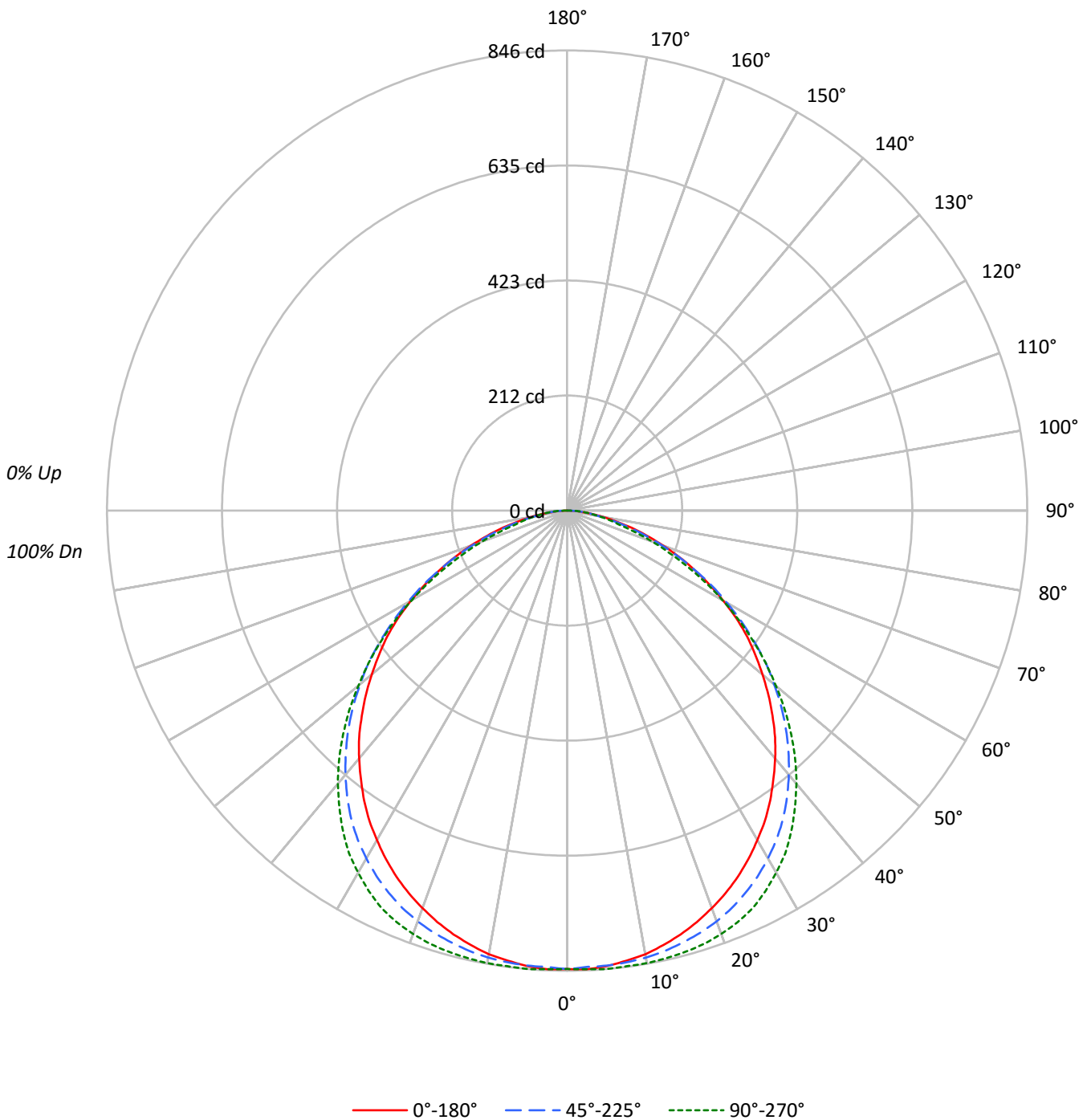
Input Watts (W): 21.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2268	2268	2268
5°	2271	2269	2285
10°	2264	2281	2309
15°	2247	2291	2340
20°	2227	2301	2372
25°	2205	2303	2395
30°	2173	2295	2388
35°	2138	2274	2362
40°	2090	2228	2304
45°	2032	2166	2217
50°	1963	2080	2097
55°	1895	1968	1958
60°	1785	1823	1779
65°	1644	1651	1559
70°	1471	1438	1308
75°	1278	1193	1010
80°	1024	928	928
85°	735	861	892



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.2	3.5
10°-20°	232.7	10.1
20°-30°	357.2	15.4
30°-40°	430.3	18.6
40°-50°	434.8	18.8
50°-60°	370.9	16.0
60°-70°	253.9	11.0
70°-80°	122.5	5.3
80°-90°	31.6	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°	670.1	29.0
0°-40°	1100.4	47.6
0°-60°	1906.0	82.4
0°-90°	2314.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2314.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	843	843	843	843	843	
5°	841	841	840	845	846	80
15°	807	813	822	837	840	228
25°	743	754	776	798	807	342
35°	651	665	692	714	719	407
45°	534	548	569	583	583	412
55°	404	411	419	421	417	360
65°	258	261	259	250	245	256
75°	123	123	115	101	97	131
85°	24	26	28	29	29	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	842.9	842.9	842.9	842.9	842.9
2.5°	843.9	842.9	839.8	843.9	843.9
5°	840.8	840.8	839.8	844.9	846.0
7.5°	834.6	836.7	837.7	843.9	844.9
10°	828.4	830.5	834.6	842.9	844.9
12.5°	818.1	822.2	829.4	840.8	842.9
15°	806.7	812.9	822.2	836.7	839.8
17.5°	793.3	801.5	813.9	830.5	835.6
20°	777.8	787.1	803.6	822.2	828.4
22.5°	761.3	771.6	791.2	812.9	819.1
25°	742.7	754.0	775.7	798.5	806.7
27.5°	722.0	734.4	758.2	781.9	789.2
30°	699.3	712.7	738.5	762.3	768.5
32.5°	676.6	690.0	716.8	739.6	746.8
35°	650.7	665.2	692.1	713.8	718.9
37.5°	622.9	637.3	664.2	685.9	687.9
40°	595.0	609.4	634.2	653.8	655.9
42.5°	566.0	579.5	602.2	618.7	620.8
45°	534.0	548.5	569.1	582.6	582.6
47.5°	502.0	516.5	534.0	543.3	543.3
50°	468.9	482.4	496.8	502.0	501.0
52.5°	435.9	448.3	460.7	461.7	459.7
55°	403.9	411.1	419.4	421.4	417.3
57.5°	368.8	375.0	380.1	377.0	373.9
60°	331.6	337.8	338.8	333.6	330.5
62.5°	295.4	300.6	300.6	292.3	287.2
65°	258.2	261.3	259.3	250.0	244.8
67.5°	223.1	225.2	221.0	211.7	203.5
70°	187.0	188.0	182.8	171.5	166.3
72.5°	153.9	154.9	148.7	135.3	129.1
75°	122.9	122.9	114.7	101.2	97.1
77.5°	91.9	95.0	85.7	78.5	78.5
80°	66.1	69.2	59.9	60.9	59.9
82.5°	43.4	46.5	43.4	43.4	43.4
85°	23.8	25.8	27.9	28.9	28.9
87.5°	7.2	12.4	13.4	14.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)