

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: P297857

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297857  
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-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2363.0 lumens  
Efficiency: N/A  
Efficacy: 113.1 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

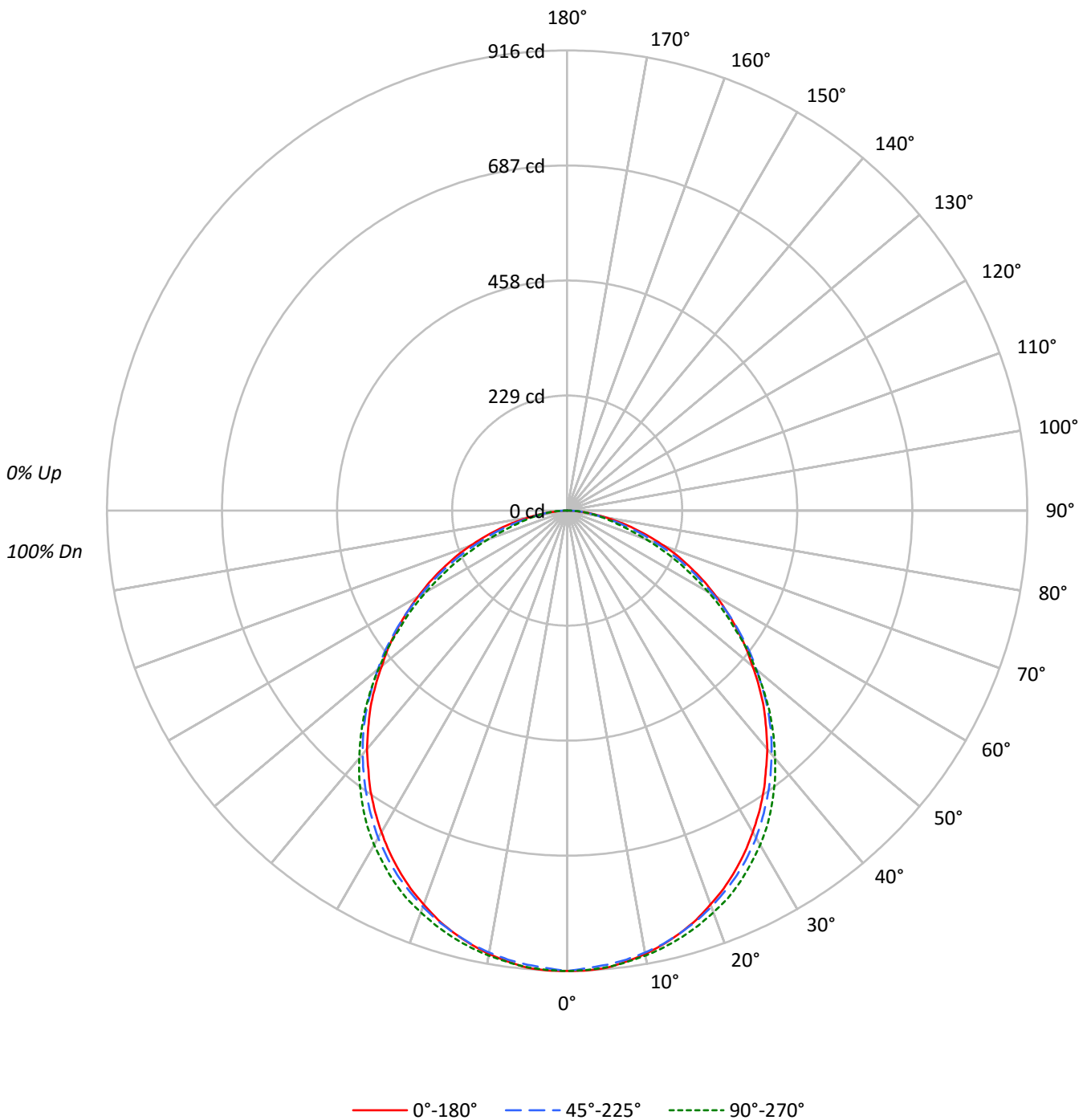
Input Watts (W): 20.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	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	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	2466	2466	2466
5°	2468	2451	2465
10°	2450	2441	2458
15°	2425	2425	2450
20°	2389	2404	2438
25°	2350	2376	2421
30°	2297	2338	2387
35°	2241	2284	2336
40°	2178	2224	2263
45°	2108	2154	2173
50°	2017	2059	2051
55°	1941	1955	1903
60°	1844	1817	1746
65°	1741	1671	1556
70°	1615	1482	1316
75°	1437	1271	1083
80°	1195	1040	1009
85°	865	929	929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.5	3.7
10°-20°	246.4	10.4
20°-30°	369.3	15.6
30°-40°	435.1	18.4
40°-50°	433.9	18.4
50°-60°	369.1	15.6
60°-70°	257.6	10.9
70°-80°	130.9	5.5
80°-90°	34.2	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°	702.2	29.7
0°-40°	1137.2	48.1
0°-60°	1940.3	82.1
0°-90°	2363.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2363.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	916	916	916	916	916	
5°	914	912	908	912	912	87
15°	870	870	870	878	880	245
25°	791	792	800	812	815	364
35°	682	683	695	709	711	426
45°	554	556	566	570	571	426
55°	414	414	417	411	406	370
65°	274	269	262	248	244	271
75°	138	133	122	107	104	147
85°	28	29	30	30	30	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	916.5	916.5	916.5	916.5	916.5
2.5°	916.5	915.5	911.5	915.5	915.5
5°	913.5	911.5	907.5	912.5	912.5
7.5°	905.5	904.5	901.5	906.5	906.5
10°	896.5	895.5	893.5	899.5	899.5
12.5°	884.5	884.5	883.5	889.5	890.5
15°	870.4	870.4	870.4	878.5	879.5
17.5°	854.4	853.4	856.4	865.4	866.4
20°	834.4	835.4	839.4	849.4	851.4
22.5°	814.4	815.4	820.4	832.4	835.4
25°	791.3	792.3	800.3	812.4	815.4
27.5°	766.3	768.3	777.3	790.3	792.3
30°	739.2	741.2	752.3	765.3	768.3
32.5°	711.2	714.2	724.2	738.2	742.2
35°	682.1	683.1	695.2	709.2	711.2
37.5°	650.1	653.1	665.1	677.1	679.1
40°	620.0	622.0	633.1	643.1	644.1
42.5°	586.0	589.0	601.0	608.0	608.0
45°	553.9	555.9	565.9	569.9	571.0
47.5°	517.9	519.9	528.9	530.9	530.9
50°	481.8	486.8	491.8	491.8	489.8
52.5°	448.7	449.7	455.8	451.8	449.7
55°	413.7	413.7	416.7	410.7	405.7
57.5°	378.6	378.6	378.6	370.6	366.6
60°	342.6	341.6	337.6	327.5	324.5
62.5°	308.5	305.5	299.5	289.5	283.5
65°	273.5	269.4	262.4	248.4	244.4
67.5°	240.4	233.4	225.4	212.4	205.3
70°	205.3	199.3	188.3	173.3	167.3
72.5°	171.3	165.3	156.3	141.2	132.2
75°	138.2	133.2	122.2	107.2	104.2
77.5°	106.2	103.2	92.2	85.1	84.1
80°	77.1	76.1	67.1	65.1	65.1
82.5°	51.1	50.1	47.1	47.1	46.1
85°	28.0	29.0	30.1	30.1	30.1
87.5°	10.0	12.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)