

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: P297664

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297664  
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-31L92765-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: 2535.0 lumens  
Efficiency: N/A  
Efficacy: 89.3 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

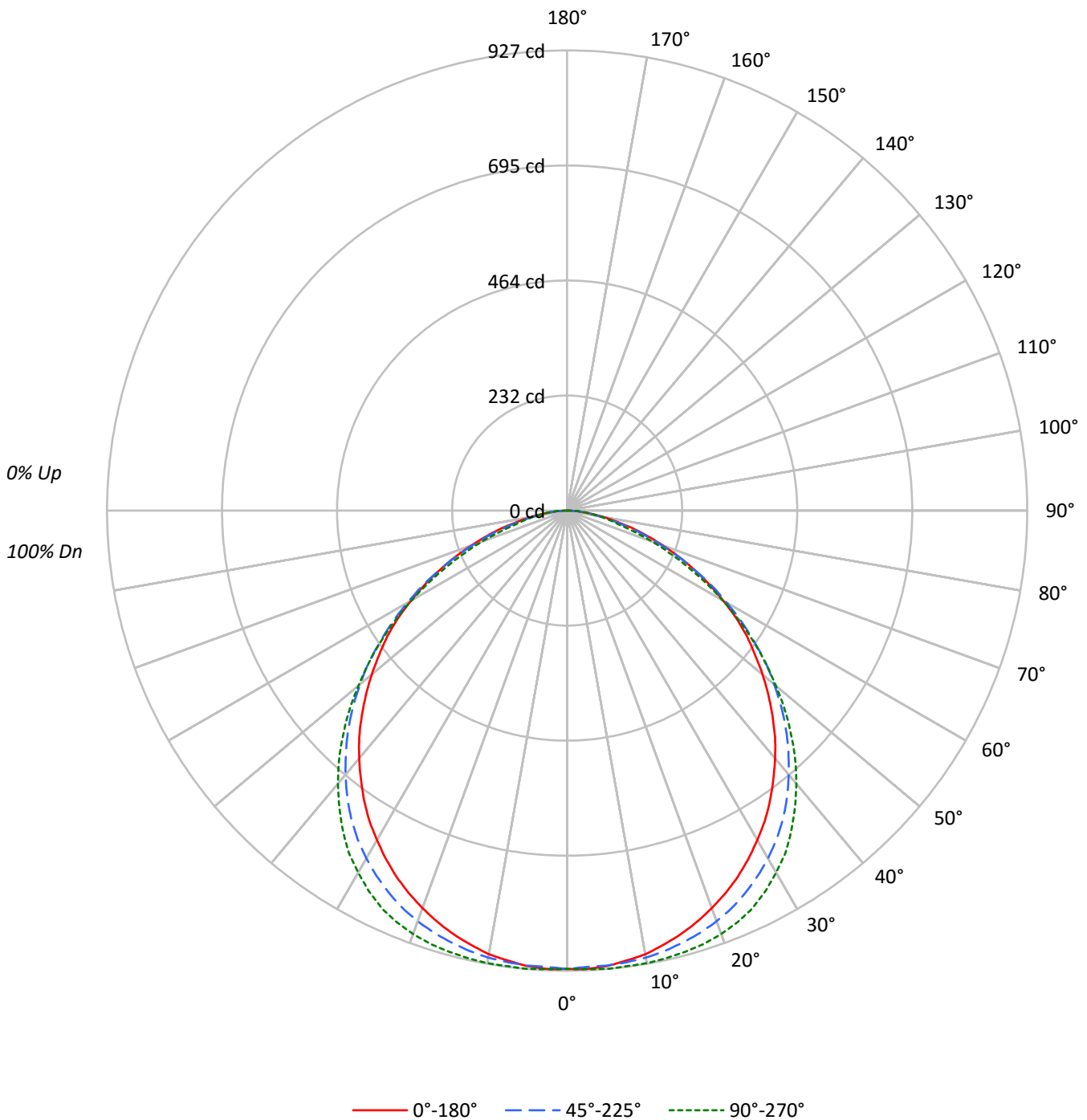
Input Watts (W): 28.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2485	2485	2485
5°	2488	2485	2504
10°	2480	2498	2529
15°	2462	2509	2563
20°	2440	2521	2599
25°	2416	2523	2624
30°	2380	2514	2616
35°	2342	2491	2587
40°	2290	2441	2524
45°	2226	2373	2429
50°	2151	2279	2298
55°	2076	2155	2145
60°	1955	1998	1949
65°	1801	1808	1708
70°	1611	1576	1434
75°	1400	1306	1106
80°	1122	1017	1017
85°	803	945	979



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.8	3.5
10°-20°	254.9	10.1
20°-30°	391.4	15.4
30°-40°	471.4	18.6
40°-50°	476.3	18.8
50°-60°	406.3	16.0
60°-70°	278.1	11.0
70°-80°	134.2	5.3
80°-90°	34.6	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°	734.1	29.0
0°-40°	1205.4	47.6
0°-60°	2088.1	82.4
0°-90°	2535.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2535.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	923	923	923	923	923	
5°	921	921	920	926	927	87
15°	884	890	901	917	920	249
25°	814	826	850	875	884	375
35°	713	729	758	782	788	445
45°	585	601	624	638	638	451
55°	442	450	459	462	457	394
65°	283	286	284	274	268	281
75°	135	135	126	111	106	143
85°	26	28	31	32	32	32
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	923.4	923.4	923.4	923.4	923.4
2.5°	924.5	923.4	920.0	924.5	924.5
5°	921.1	921.1	920.0	925.6	926.8
7.5°	914.3	916.6	917.7	924.5	925.6
10°	907.5	909.8	914.3	923.4	925.6
12.5°	896.2	900.7	908.7	921.1	923.4
15°	883.8	890.5	900.7	916.6	920.0
17.5°	869.0	878.1	891.7	909.8	915.4
20°	852.1	862.3	880.4	900.7	907.5
22.5°	834.0	845.3	866.8	890.5	897.3
25°	813.6	826.0	849.8	874.7	883.8
27.5°	791.0	804.5	830.6	856.6	864.5
30°	766.1	780.8	809.1	835.1	841.9
32.5°	741.2	755.9	785.3	810.2	818.1
35°	712.9	728.7	758.2	781.9	787.6
37.5°	682.3	698.2	727.6	751.4	753.6
40°	651.8	667.6	694.8	716.3	718.5
42.5°	620.1	634.8	659.7	677.8	680.1
45°	585.0	600.9	623.5	638.2	638.2
47.5°	549.9	565.8	585.0	595.2	595.2
50°	513.7	528.4	544.3	549.9	548.8
52.5°	477.5	491.1	504.7	505.8	503.6
55°	442.4	450.4	459.4	461.7	457.2
57.5°	404.0	410.8	416.4	413.0	409.6
60°	363.2	370.0	371.2	365.5	362.1
62.5°	323.6	329.3	329.3	320.2	314.6
65°	282.9	286.3	284.0	273.8	268.2
67.5°	244.4	246.7	242.2	232.0	222.9
70°	204.8	205.9	200.3	187.8	182.2
72.5°	168.6	169.7	162.9	148.2	141.4
75°	134.7	134.7	125.6	110.9	106.4
77.5°	100.7	104.1	93.9	86.0	86.0
80°	72.4	75.8	65.6	66.8	65.6
82.5°	47.5	50.9	47.5	47.5	47.5
85°	26.0	28.3	30.6	31.7	31.7
87.5°	7.9	13.6	14.7	15.8	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)