

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: P298104

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298104  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
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-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2570.0 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

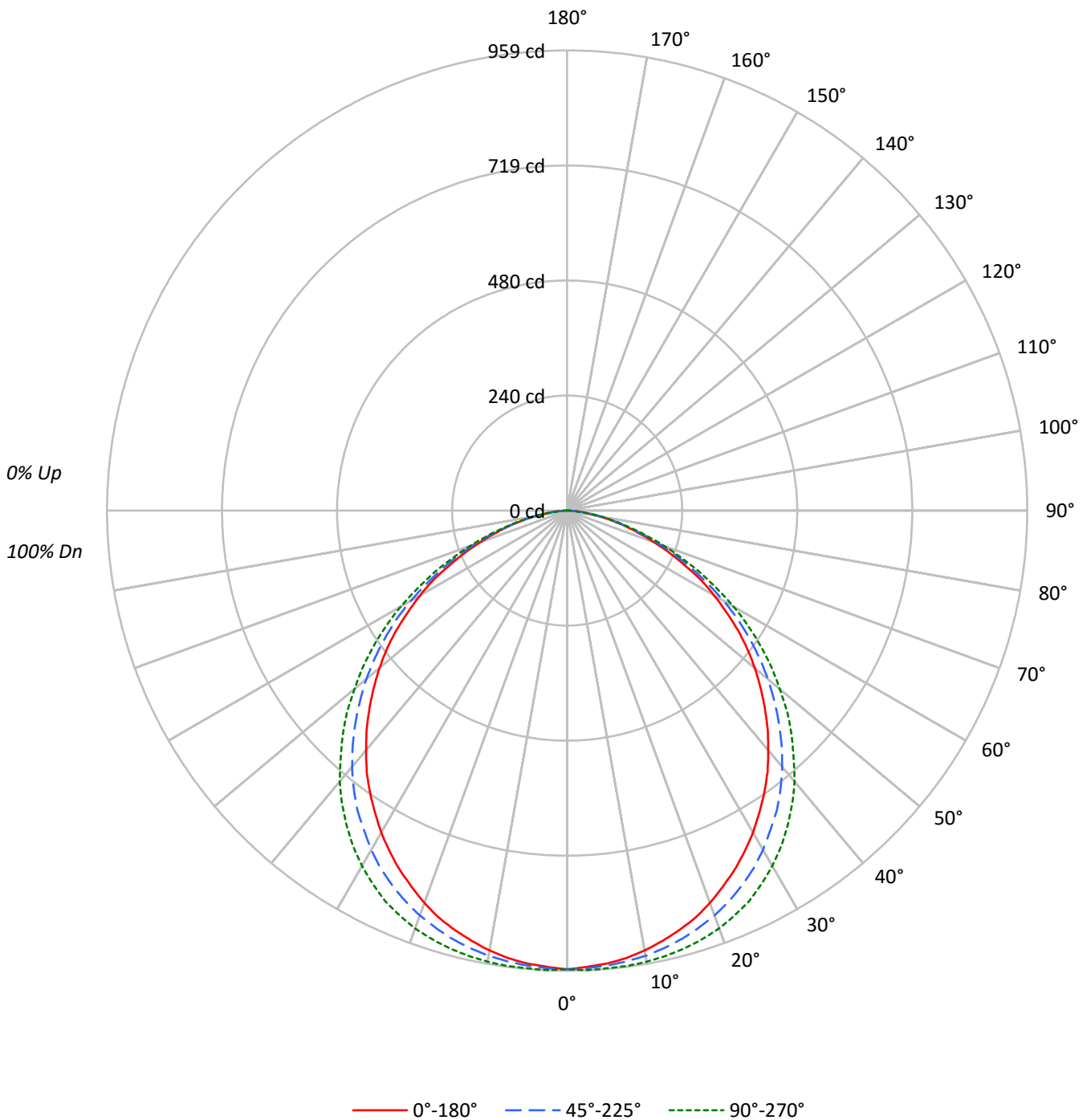
Input Watts (W): 24.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	2572	2572	2572
5°	2560	2571	2586
10°	2544	2574	2608
15°	2520	2574	2632
20°	2492	2571	2654
25°	2452	2559	2666
30°	2407	2536	2656
35°	2354	2504	2631
40°	2289	2449	2590
45°	2216	2374	2516
50°	2137	2287	2421
55°	2038	2174	2311
60°	1906	2025	2159
65°	1726	1832	1947
70°	1524	1600	1687
75°	1309	1338	1395
80°	1051	1072	1094
85°	769	682	682



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.6	3.5
10°-20°	260.9	10.2
20°-30°	396.9	15.4
30°-40°	474.9	18.5
40°-50°	480.1	18.7
50°-60°	413.1	16.1
60°-70°	285.2	11.1
70°-80°	138.3	5.4
80°-90°	30.0	1.2
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°	748.4	29.1
0°-40°	1223.3	47.6
0°-60°	2116.5	82.4
0°-90°	2570.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2570.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	956	956	956	956	956	
5°	948	949	952	956	957	90
15°	905	910	924	938	945	255
25°	826	836	862	888	898	380
35°	717	729	762	790	801	448
45°	582	594	624	650	661	449
55°	434	441	463	484	492	387
65°	271	275	288	300	306	270
75°	126	123	129	133	134	134
85°	25	25	22	22	22	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	955.9	955.9	955.9	955.9	955.9
2.5°	951.7	951.7	954.5	957.3	958.7
5°	947.6	949.0	951.7	955.9	957.3
7.5°	940.7	942.1	947.6	954.5	957.3
10°	931.0	933.8	942.1	950.4	954.5
12.5°	918.5	924.1	933.8	944.8	950.4
15°	904.7	910.2	924.1	937.9	944.8
17.5°	889.5	895.0	911.6	929.6	936.5
20°	870.1	878.4	897.8	918.5	926.8
22.5°	848.0	859.1	881.2	903.3	913.0
25°	825.9	835.5	861.8	888.1	897.8
27.5°	801.0	812.0	841.1	867.4	877.0
30°	774.7	785.7	816.2	845.2	854.9
32.5°	745.6	759.5	788.5	818.9	830.0
35°	716.6	729.0	762.2	789.9	801.0
37.5°	686.1	697.2	730.4	759.5	770.5
40°	651.6	664.0	697.2	726.3	737.3
42.5°	618.4	630.8	661.2	688.9	698.6
45°	582.4	593.5	623.9	650.2	661.2
47.5°	546.4	558.9	585.2	611.4	622.5
50°	510.5	520.1	546.4	571.3	578.2
52.5°	473.1	481.4	504.9	527.1	536.7
55°	434.4	441.3	463.4	484.2	492.5
57.5°	392.9	401.2	421.9	437.1	446.8
60°	354.1	358.3	376.3	391.5	401.2
62.5°	315.4	316.8	330.6	345.8	351.4
65°	271.1	275.3	287.7	300.2	305.7
67.5°	231.0	235.2	244.9	254.5	258.7
70°	193.7	193.7	203.4	210.3	214.4
72.5°	156.3	157.7	164.6	168.8	172.9
75°	125.9	123.1	128.7	132.8	134.2
77.5°	94.1	92.7	96.8	98.2	101.0
80°	67.8	67.8	69.2	70.6	70.6
82.5°	44.3	44.3	45.7	42.9	41.5
85°	24.9	24.9	22.1	22.1	22.1
87.5°	8.3	8.3	8.3	9.7	8.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)