

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: P298231

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298231  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L93050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2296.0 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

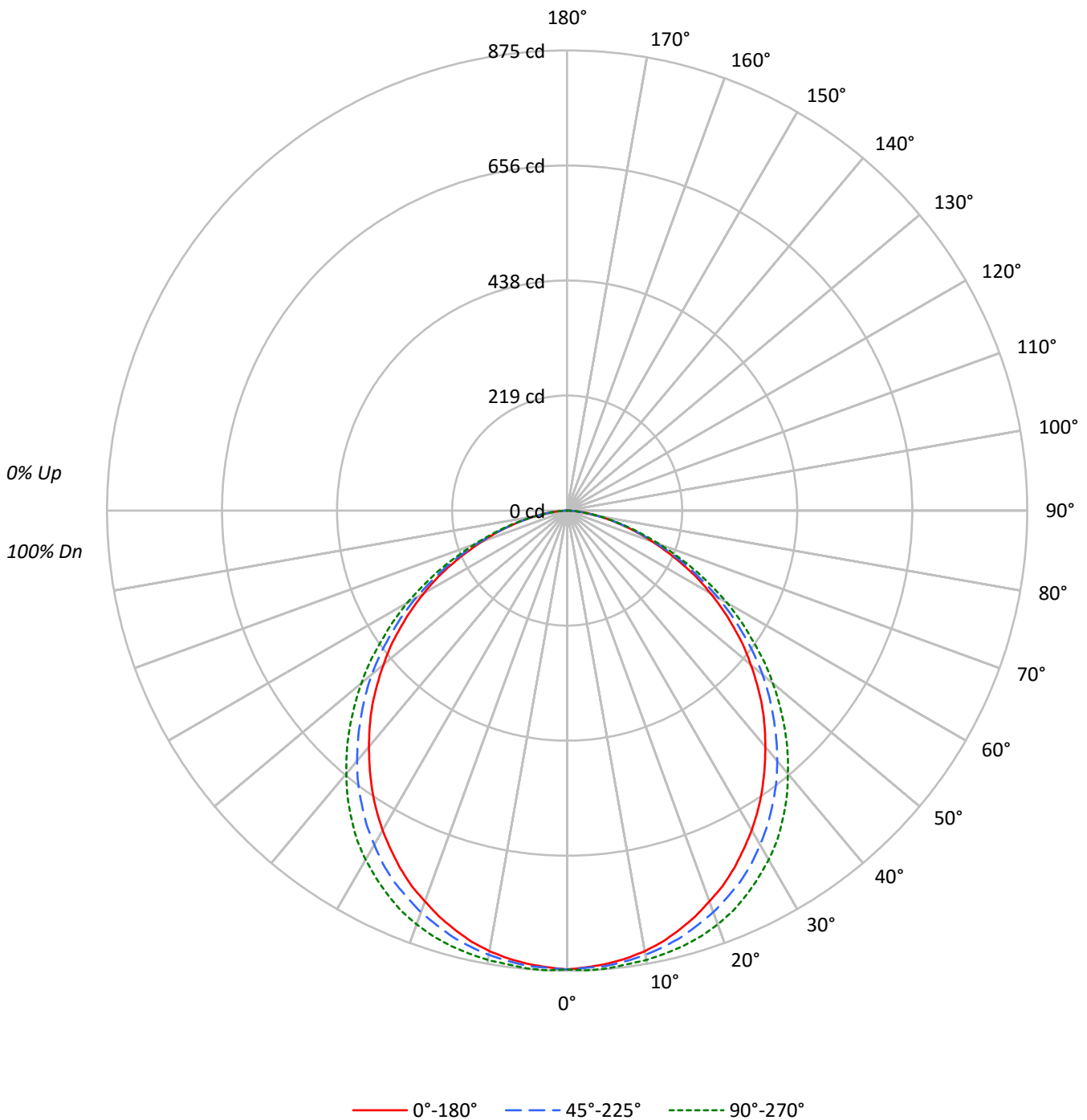
Input Watts (W): 25  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72					72			
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61					61			
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	64	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	47	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	28					28			
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	2348	2348	2348
5°	2337	2347	2360
10°	2324	2344	2371
15°	2298	2339	2387
20°	2265	2328	2397
25°	2229	2312	2395
30°	2181	2279	2382
35°	2126	2238	2350
40°	2059	2183	2295
45°	1994	2110	2226
50°	1908	2030	2138
55°	1812	1915	2018
60°	1692	1784	1889
65°	1544	1614	1707
70°	1352	1409	1467
75°	1153	1178	1229
80°	925	944	962
85°	676	639	602



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	3.6
10°-20°	237.0	10.3
20°-30°	358.3	15.6
30°-40°	425.6	18.5
40°-50°	427.3	18.6
50°-60°	365.0	15.9
60°-70°	251.5	11.0
70°-80°	121.9	5.3
80°-90°	26.7	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°	678.0	29.5
0°-40°	1103.6	48.1
0°-60°	1895.9	82.6
0°-90°	2296.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2296.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	872	872	872	872	872	
5°	865	865	869	871	874	82
15°	825	829	840	851	857	233
25°	751	757	779	799	807	345
35°	647	657	681	707	715	404
45°	524	531	554	578	585	403
55°	386	392	408	425	430	345
65°	242	242	254	264	268	240
75°	111	108	113	116	118	119
85°	22	22	21	20	20	27
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	872.5	872.5	872.5	872.5	872.5
2.5°	868.9	868.9	870.1	873.8	875.0
5°	865.2	865.2	868.9	871.3	873.8
7.5°	859.1	860.3	864.0	868.9	870.1
10°	850.6	851.8	857.9	864.0	867.7
12.5°	839.6	842.1	849.4	859.1	862.8
15°	825.0	828.7	839.6	850.6	856.7
17.5°	809.2	814.0	826.2	842.1	848.2
20°	790.9	797.0	812.8	829.9	837.2
22.5°	772.6	777.5	795.8	815.3	823.8
25°	750.7	756.8	778.7	799.4	806.7
27.5°	726.3	734.8	758.0	779.9	787.2
30°	701.9	709.2	733.6	758.0	766.5
32.5°	675.1	682.4	709.2	733.6	743.4
35°	647.1	656.8	681.2	706.8	715.3
37.5°	616.6	627.6	653.2	675.1	686.1
40°	586.2	595.9	621.5	644.7	653.2
42.5°	555.7	564.2	588.6	613.0	620.3
45°	524.0	531.3	554.5	577.6	584.9
47.5°	489.9	498.4	520.4	539.8	548.4
50°	455.8	464.3	485.0	503.3	510.6
52.5°	422.9	427.7	447.2	464.3	472.8
55°	386.3	392.4	408.2	425.3	430.2
57.5°	351.0	354.6	370.5	385.1	392.4
60°	314.4	316.8	331.5	342.4	351.0
62.5°	280.3	280.3	291.3	303.4	308.3
65°	242.5	242.5	253.5	264.4	268.1
67.5°	205.9	208.4	215.7	224.2	226.7
70°	171.8	171.8	179.1	185.2	186.4
72.5°	141.4	140.1	143.8	148.7	151.1
75°	110.9	108.5	113.3	115.8	118.2
77.5°	84.1	82.9	85.3	87.7	87.7
80°	59.7	58.5	60.9	60.9	62.1
82.5°	39.0	40.2	40.2	39.0	37.8
85°	21.9	21.9	20.7	19.5	19.5
87.5°	7.3	7.3	7.3	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)