

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: P297978

Luminaire Tested: **D3X-WD-25L83050-LD5-UNV-22-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297978  
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-25L83050-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2418.0 lumens  
Efficiency: N/A  
Efficacy: 122.1 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

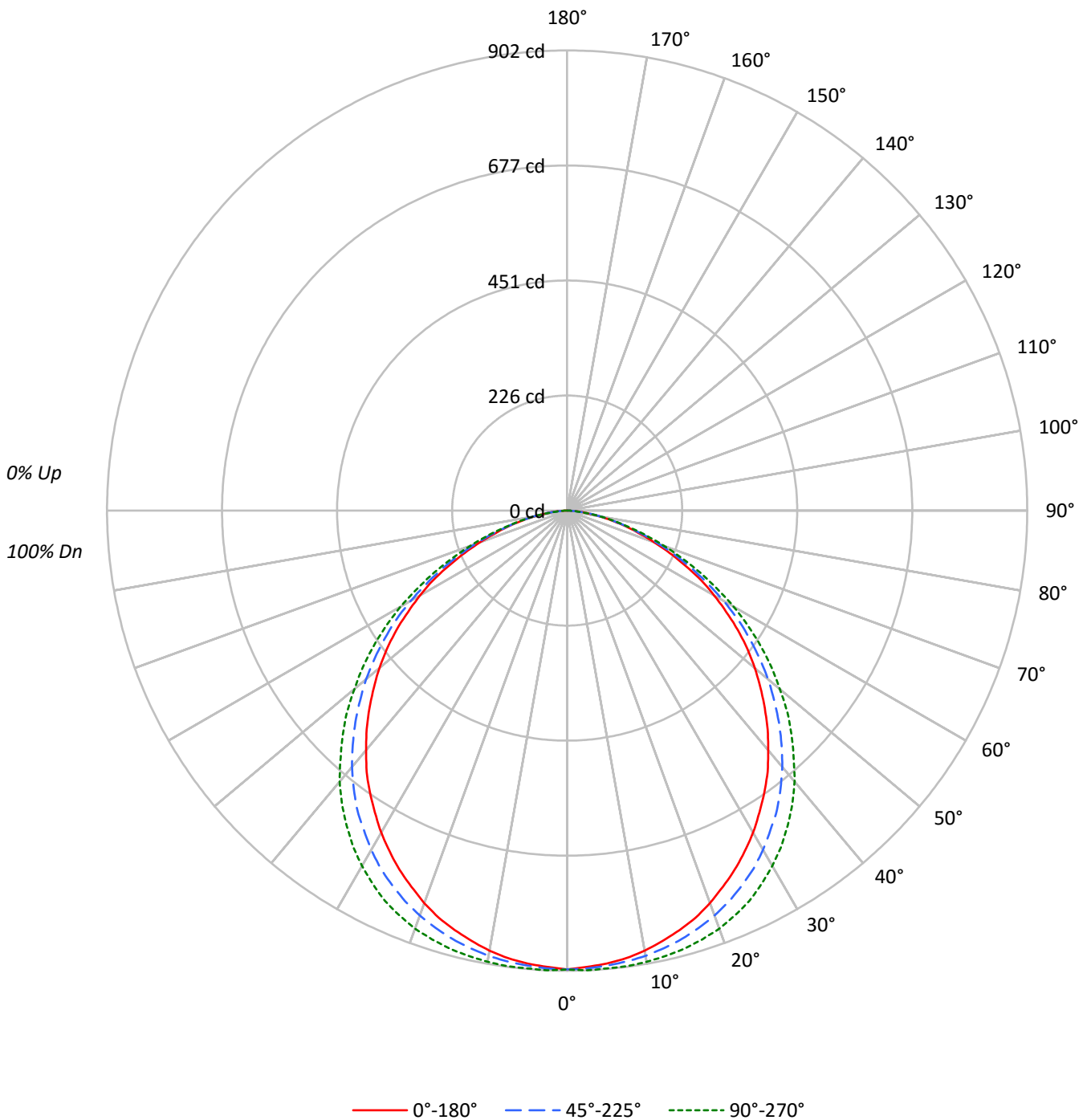
Input Watts (W): 19.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	31	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2420	2420	2420
5°	2408	2419	2433
10°	2393	2422	2454
15°	2371	2422	2476
20°	2344	2419	2497
25°	2307	2408	2508
30°	2265	2386	2499
35°	2215	2356	2476
40°	2153	2304	2437
45°	2085	2234	2367
50°	2011	2152	2277
55°	1917	2046	2174
60°	1793	1905	2031
65°	1624	1724	1831
70°	1434	1505	1587
75°	1231	1258	1312
80°	989	1009	1029
85°	722	642	642



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	3.5
10°-20°	245.5	10.2
20°-30°	373.4	15.4
30°-40°	446.8	18.5
40°-50°	451.7	18.7
50°-60°	388.7	16.1
60°-70°	268.4	11.1
70°-80°	130.1	5.4
80°-90°	28.2	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°	704.2	29.1
0°-40°	1150.9	47.6
0°-60°	1991.3	82.4
0°-90°	2418.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2418.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	899	899	899	899	899	
5°	892	893	895	899	901	85
15°	851	856	869	882	889	240
25°	777	786	811	836	845	358
35°	674	686	717	743	754	421
45°	548	558	587	612	622	423
55°	409	415	436	456	463	364
65°	255	259	271	282	288	254
75°	118	116	121	125	126	126
85°	23	23	21	21	21	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	899.4	899.4	899.4	899.4	899.4
2.5°	895.4	895.4	898.1	900.7	902.0
5°	891.5	892.8	895.4	899.4	900.7
7.5°	885.0	886.3	891.5	898.1	900.7
10°	875.9	878.5	886.3	894.1	898.1
12.5°	864.2	869.4	878.5	888.9	894.1
15°	851.2	856.4	869.4	882.4	888.9
17.5°	836.9	842.1	857.7	874.6	881.1
20°	818.7	826.5	844.7	864.2	872.0
22.5°	797.8	808.2	829.1	849.9	859.0
25°	777.0	786.1	810.9	835.6	844.7
27.5°	753.6	764.0	791.3	816.1	825.2
30°	728.9	739.3	767.9	795.2	804.3
32.5°	701.5	714.5	741.9	770.5	780.9
35°	674.2	685.9	717.1	743.2	753.6
37.5°	645.6	656.0	687.2	714.5	724.9
40°	613.0	624.7	656.0	683.3	693.7
42.5°	581.8	593.5	622.1	648.2	657.3
45°	547.9	558.4	587.0	611.7	622.1
47.5°	514.1	525.8	550.5	575.3	585.7
50°	480.3	489.4	514.1	537.5	544.0
52.5°	445.1	452.9	475.1	495.9	505.0
55°	408.7	415.2	436.0	455.5	463.3
57.5°	369.6	377.4	397.0	411.3	420.4
60°	333.2	337.1	354.0	368.3	377.4
62.5°	296.7	298.0	311.1	325.4	330.6
65°	255.1	259.0	270.7	282.4	287.6
67.5°	217.4	221.3	230.4	239.5	243.4
70°	182.2	182.2	191.3	197.8	201.7
72.5°	147.1	148.4	154.9	158.8	162.7
75°	118.4	115.8	121.0	124.9	126.2
77.5°	88.5	87.2	91.1	92.4	95.0
80°	63.8	63.8	65.1	66.4	66.4
82.5°	41.6	41.6	43.0	40.3	39.0
85°	23.4	23.4	20.8	20.8	20.8
87.5°	7.8	7.8	7.8	9.1	7.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)