

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: P298146

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298146  
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-25L83050-LD5-UNV-22-T1-W2A-5000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2451.0 lumens  
Efficiency: N/A  
Efficacy: 123.8 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

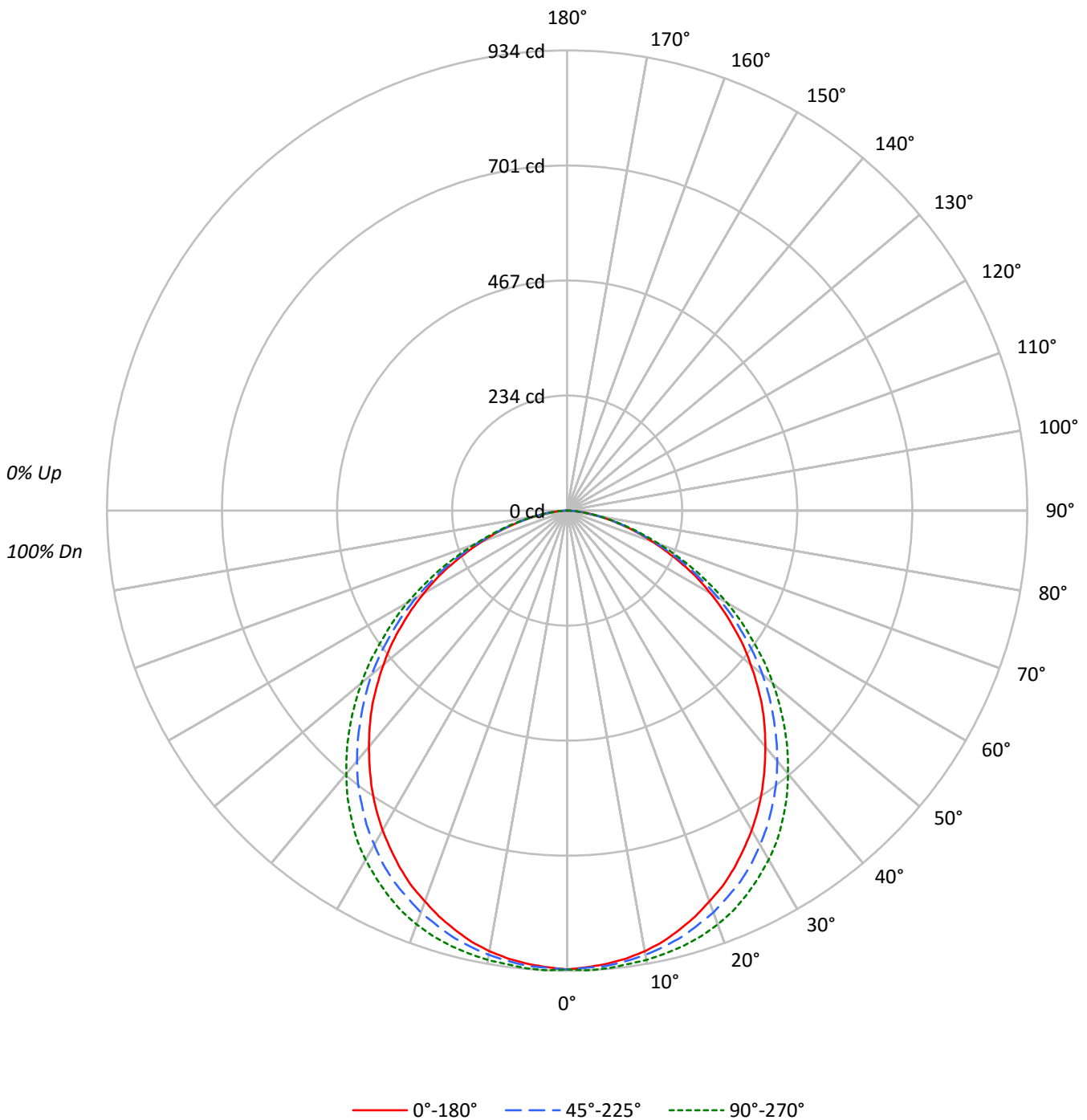
Input Watts (W): 19.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P298146

CATALOG NUMBER: D3X-WG-25L83050-LD5-UNV-22-T1-W2A-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P298146

CATALOG NUMBER: D3X-WG-25L83050-LD5-UNV-22-T1-W2A-5000K

**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	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	2506	2506	2506
5°	2495	2505	2519
10°	2481	2502	2531
15°	2454	2497	2548
20°	2418	2485	2559
25°	2379	2468	2557
30°	2328	2433	2543
35°	2269	2389	2508
40°	2198	2331	2449
45°	2129	2253	2376
50°	2037	2168	2282
55°	1935	2045	2154
60°	1806	1904	2017
65°	1649	1723	1822
70°	1443	1504	1566
75°	1231	1258	1312
80°	987	1007	1027
85°	722	682	642



TEST NUMBER: P298146

CATALOG NUMBER: D3X-WG-25L83050-LD5-UNV-22-T1-W2A-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	3.6
10°-20°	253.0	10.3
20°-30°	382.5	15.6
30°-40°	454.4	18.5
40°-50°	456.2	18.6
50°-60°	389.6	15.9
60°-70°	268.5	11.0
70°-80°	130.2	5.3
80°-90°	28.5	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°	723.7	29.5
0°-40°	1178.1	48.1
0°-60°	2023.9	82.6
0°-90°	2451.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2451.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	931	931	931	931	931	
5°	924	924	928	930	933	88
15°	881	885	896	908	914	248
25°	801	808	831	853	861	369
35°	691	701	727	754	764	431
45°	559	567	592	617	624	431
55°	412	419	436	454	459	369
65°	259	259	271	282	286	256
75°	118	116	121	124	126	127
85°	23	23	22	21	21	28
90°	0	0	0	0	0	



TEST NUMBER: P298146

CATALOG NUMBER: D3X-WG-25L83050-LD5-UNV-22-T1-W2A-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	931.4	931.4	931.4	931.4	931.4
2.5°	927.5	927.5	928.8	932.7	934.0
5°	923.6	923.6	927.5	930.1	932.7
7.5°	917.1	918.4	922.3	927.5	928.8
10°	908.0	909.3	915.8	922.3	926.2
12.5°	896.3	898.9	906.7	917.1	921.0
15°	880.7	884.6	896.3	908.0	914.5
17.5°	863.8	869.0	882.0	898.9	905.4
20°	844.3	850.8	867.7	885.9	893.7
22.5°	824.8	830.0	849.5	870.3	879.4
25°	801.3	807.9	831.3	853.4	861.2
27.5°	775.3	784.4	809.2	832.6	840.4
30°	749.3	757.1	783.1	809.2	818.3
32.5°	720.7	728.5	757.1	783.1	793.5
35°	690.8	701.2	727.2	754.5	763.6
37.5°	658.2	670.0	697.3	720.7	732.4
40°	625.7	636.1	663.5	688.2	697.3
42.5°	593.2	602.3	628.3	654.3	662.2
45°	559.4	567.2	591.9	616.6	624.4
47.5°	523.0	532.1	555.5	576.3	585.4
50°	486.5	495.6	517.8	537.3	545.1
52.5°	451.4	456.6	477.4	495.6	504.7
55°	412.4	418.9	435.8	454.0	459.2
57.5°	374.7	378.6	395.5	411.1	418.9
60°	335.6	338.2	353.8	365.5	374.7
62.5°	299.2	299.2	310.9	323.9	329.1
65°	258.9	258.9	270.6	282.3	286.2
67.5°	219.9	222.5	230.3	239.4	242.0
70°	183.4	183.4	191.2	197.7	199.0
72.5°	150.9	149.6	153.5	158.7	161.3
75°	118.4	115.8	121.0	123.6	126.2
77.5°	89.8	88.5	91.1	93.7	93.7
80°	63.7	62.4	65.0	65.0	66.3
82.5°	41.6	42.9	42.9	41.6	40.3
85°	23.4	23.4	22.1	20.8	20.8
87.5°	7.8	7.8	7.8	9.1	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)