

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: P296732

Luminaire Tested: **D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296732  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4966.0 lumens  
Efficiency: N/A  
Efficacy: 135.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

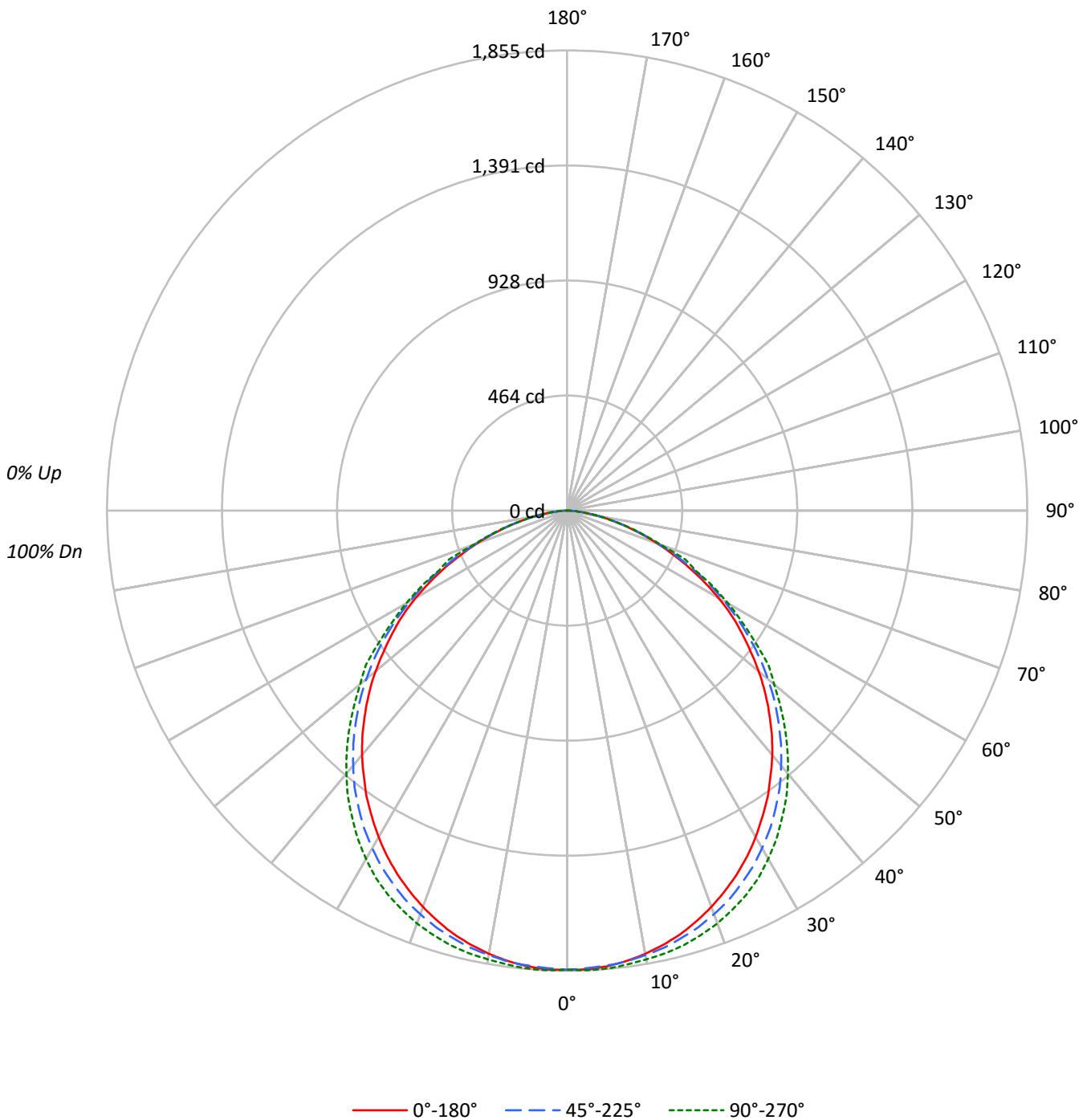
Input Watts (W): 36.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296732

CATALOG NUMBER: D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4500K

### Luminous Intensity Polar Plot





TEST NUMBER: P296732

CATALOG NUMBER: D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4500K

**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	94	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	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2491	2491	2491
5°	2491	2486	2503
10°	2478	2485	2510
15°	2462	2484	2527
20°	2434	2480	2536
25°	2402	2465	2537
30°	2361	2442	2519
35°	2315	2406	2482
40°	2260	2357	2432
45°	2190	2292	2363
50°	2111	2212	2279
55°	2015	2107	2169
60°	1899	1971	2019
65°	1725	1781	1815
70°	1514	1549	1570
75°	1278	1297	1306
80°	1022	1035	1008
85°	687	715	687



TEST NUMBER: P296732

CATALOG NUMBER: D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	175.5	3.5
10°-20°	504.5	10.2
20°-30°	765.5	15.4
30°-40°	913.9	18.4
40°-50°	925.3	18.6
50°-60°	799.8	16.1
60°-70°	554.3	11.2
70°-80°	268.2	5.4
80°-90°	58.9	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°	1445.5	29.1
0°-40°	2359.5	47.5
0°-60°	4084.5	82.2
0°-90°	4966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4966.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1851	1851	1851	1851	1851	
5°	1844	1842	1841	1850	1853	175
15°	1768	1771	1784	1805	1814	498
25°	1618	1629	1661	1694	1709	745
35°	1409	1422	1465	1502	1511	880
45°	1151	1167	1204	1235	1242	888
55°	859	868	898	935	925	768
65°	542	547	560	568	570	536
75°	246	248	250	248	251	264
85°	44	48	46	44	44	58
90°	0	0	0	0	0	



TEST NUMBER: P296732

CATALOG NUMBER: D3X-WD-50L83050-LD5-UNV-24-T1-W2A-4500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1851.3	1851.3	1851.3	1851.3	1851.3
2.5°	1851.3	1849.5	1845.9	1851.3	1854.9
5°	1844.2	1842.4	1840.6	1849.5	1853.1
7.5°	1831.7	1831.7	1833.5	1842.4	1845.9
10°	1813.9	1815.7	1819.2	1833.5	1837.0
12.5°	1792.5	1796.1	1805.0	1821.0	1828.1
15°	1767.5	1771.1	1783.6	1805.0	1813.9
17.5°	1735.5	1742.6	1760.4	1785.4	1794.3
20°	1699.8	1708.7	1731.9	1760.4	1771.1
22.5°	1660.6	1669.5	1699.8	1730.1	1740.8
25°	1617.9	1628.6	1660.6	1694.5	1708.7
27.5°	1571.5	1584.0	1619.7	1655.3	1669.5
30°	1519.9	1534.1	1571.5	1609.0	1621.4
32.5°	1464.6	1478.9	1521.7	1557.3	1569.8
35°	1409.4	1421.9	1464.6	1502.1	1511.0
37.5°	1347.0	1361.3	1407.6	1439.7	1452.2
40°	1286.5	1300.7	1341.7	1373.8	1384.5
42.5°	1220.5	1234.8	1275.8	1306.1	1315.0
45°	1151.0	1167.1	1204.5	1234.8	1241.9
47.5°	1081.6	1094.0	1133.2	1160.0	1165.3
50°	1008.5	1021.0	1056.6	1083.3	1088.7
52.5°	931.9	951.5	980.0	999.6	1022.8
55°	858.8	867.7	898.0	935.4	924.8
57.5°	785.8	791.1	816.1	832.1	835.7
60°	705.6	712.7	732.3	741.2	750.1
62.5°	621.8	627.2	650.4	659.3	662.8
65°	541.7	547.0	559.5	568.4	570.2
67.5°	459.7	465.0	475.7	482.9	514.9
70°	384.9	388.4	393.8	408.0	399.1
72.5°	313.6	315.4	320.7	320.7	322.5
75°	245.9	247.7	249.5	247.7	251.2
77.5°	183.5	187.1	188.9	187.1	185.3
80°	131.9	135.4	133.6	130.1	130.1
82.5°	85.5	87.3	85.5	83.7	83.7
85°	44.5	48.1	46.3	44.5	44.5
87.5°	16.0	17.8	19.6	21.4	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)