

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: P297013

Luminaire Tested: **D3X-WG-50L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297013  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-50L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4975.0 lumens  
Efficiency: N/A  
Efficacy: 135.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

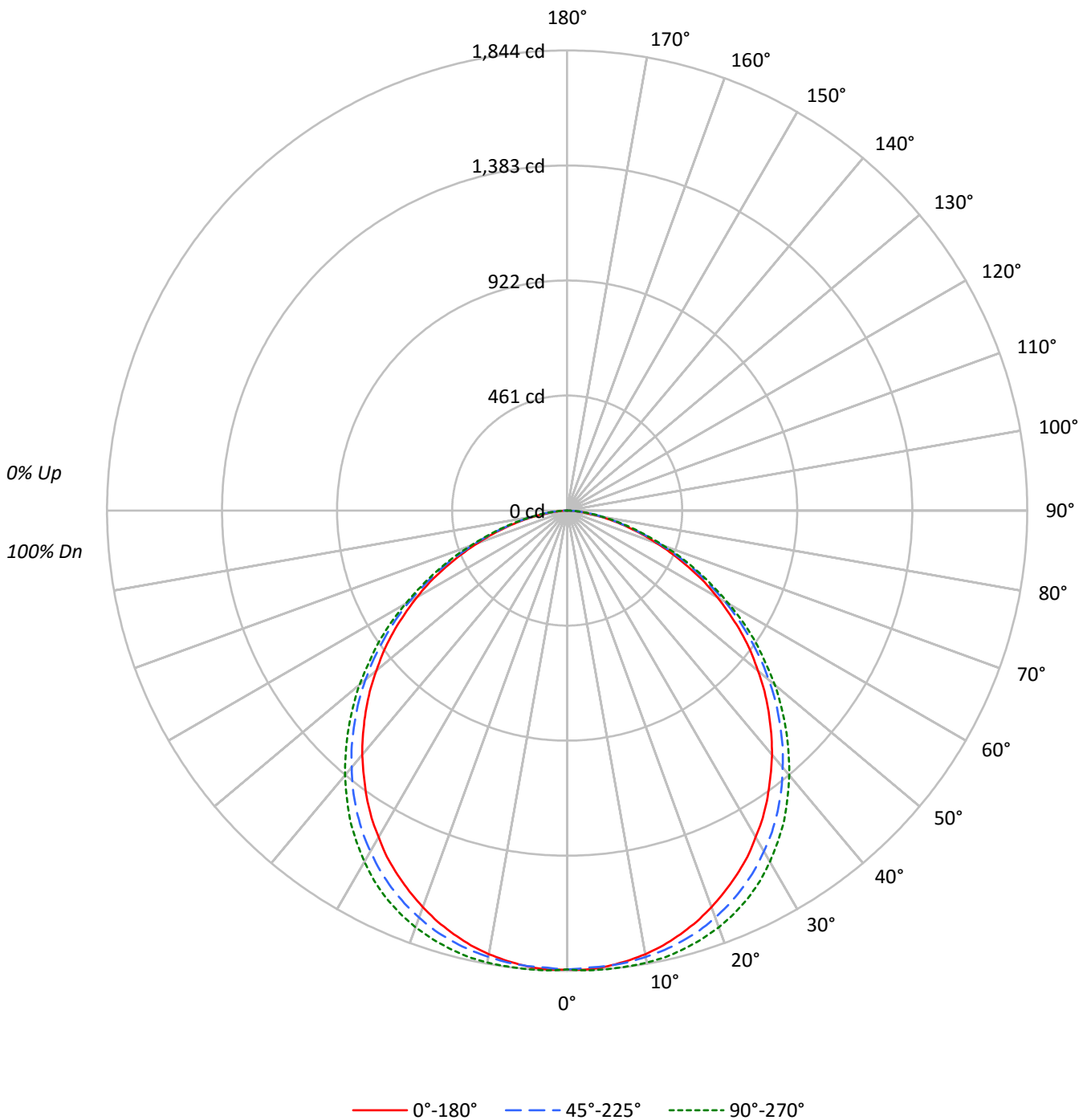
Input Watts (W): 36.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85	85	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71	71	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52	52	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40	40	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35	35	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31	31	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28	28	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26	26	26

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

	0°	45°	90°
0°	2475	2475	2475
5°	2477	2474	2491
10°	2466	2481	2513
15°	2448	2487	2532
20°	2422	2485	2544
25°	2389	2474	2545
30°	2348	2450	2525
35°	2301	2415	2491
40°	2244	2360	2432
45°	2174	2292	2360
50°	2089	2208	2276
55°	1998	2099	2165
60°	1870	1966	2014
65°	1708	1798	1844
70°	1500	1578	1620
75°	1269	1334	1380
80°	1008	1105	1132
85°	689	826	798



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	3.5
10°-20°	504.5	10.1
20°-30°	766.7	15.4
30°-40°	914.9	18.4
40°-50°	924.0	18.6
50°-60°	796.1	16.0
60°-70°	555.0	11.2
70°-80°	275.0	5.5
80°-90°	64.1	1.3
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°	1446.0	29.1
0°-40°	2360.8	47.5
0°-60°	4080.9	82.0
0°-90°	4975.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4975.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1839	1839	1839	1839	1839	
5°	1834	1832	1832	1841	1844	174
15°	1757	1766	1786	1809	1818	496
25°	1609	1631	1666	1700	1714	741
35°	1401	1424	1470	1504	1517	876
45°	1142	1167	1205	1233	1240	881
55°	852	870	895	916	923	759
65°	536	547	565	570	579	533
75°	244	248	257	262	266	263
85°	45	54	54	50	52	57
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1839.2	1839.2	1839.2	1839.2	1839.2
2.5°	1840.9	1837.4	1833.8	1840.9	1844.5
5°	1833.8	1832.0	1832.0	1840.9	1844.5
7.5°	1821.3	1821.3	1826.7	1839.2	1842.7
10°	1805.3	1808.9	1816.0	1833.8	1839.2
12.5°	1783.9	1791.0	1803.5	1824.9	1832.0
15°	1757.2	1766.1	1785.7	1808.9	1817.8
17.5°	1726.9	1739.4	1764.3	1791.0	1799.9
20°	1691.2	1707.3	1735.8	1766.1	1776.8
22.5°	1652.0	1671.6	1703.7	1735.8	1748.3
25°	1609.3	1630.6	1666.3	1700.1	1714.4
27.5°	1564.7	1586.1	1625.3	1659.2	1673.4
30°	1511.2	1536.2	1577.2	1612.8	1625.3
32.5°	1459.6	1484.5	1527.3	1559.4	1571.8
35°	1400.7	1423.9	1470.3	1504.1	1516.6
37.5°	1338.4	1365.1	1409.7	1440.0	1450.6
40°	1277.8	1301.0	1343.7	1374.0	1384.7
42.5°	1210.1	1235.0	1277.8	1304.5	1313.4
45°	1142.3	1167.3	1204.7	1233.2	1240.4
47.5°	1072.8	1096.0	1133.4	1156.6	1163.7
50°	998.0	1019.4	1055.0	1078.2	1087.1
52.5°	926.7	946.3	976.6	996.2	1001.6
55°	851.9	869.7	894.6	916.0	923.1
57.5°	771.7	791.3	814.4	832.3	837.6
60°	695.0	711.1	730.7	746.7	748.5
62.5°	620.2	627.3	645.1	659.4	661.2
65°	536.4	547.1	564.9	570.3	579.2
67.5°	459.8	466.9	481.2	488.3	495.4
70°	381.4	386.7	401.0	409.9	411.7
72.5°	313.7	315.4	326.1	333.3	335.0
75°	244.2	247.7	256.6	262.0	265.5
77.5°	185.3	188.9	196.0	199.6	199.6
80°	130.1	135.4	142.6	144.4	146.1
82.5°	83.8	90.9	96.2	98.0	94.5
85°	44.6	53.5	53.5	49.9	51.7
87.5°	16.0	19.6	21.4	23.2	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)