

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: P296869

Luminaire Tested: **D3X-WD-50L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296869  
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-50L93050-LD5-UNV-24-T1-W2A-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3645.0 lumens  
Efficiency: N/A  
Efficacy: 101.8 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

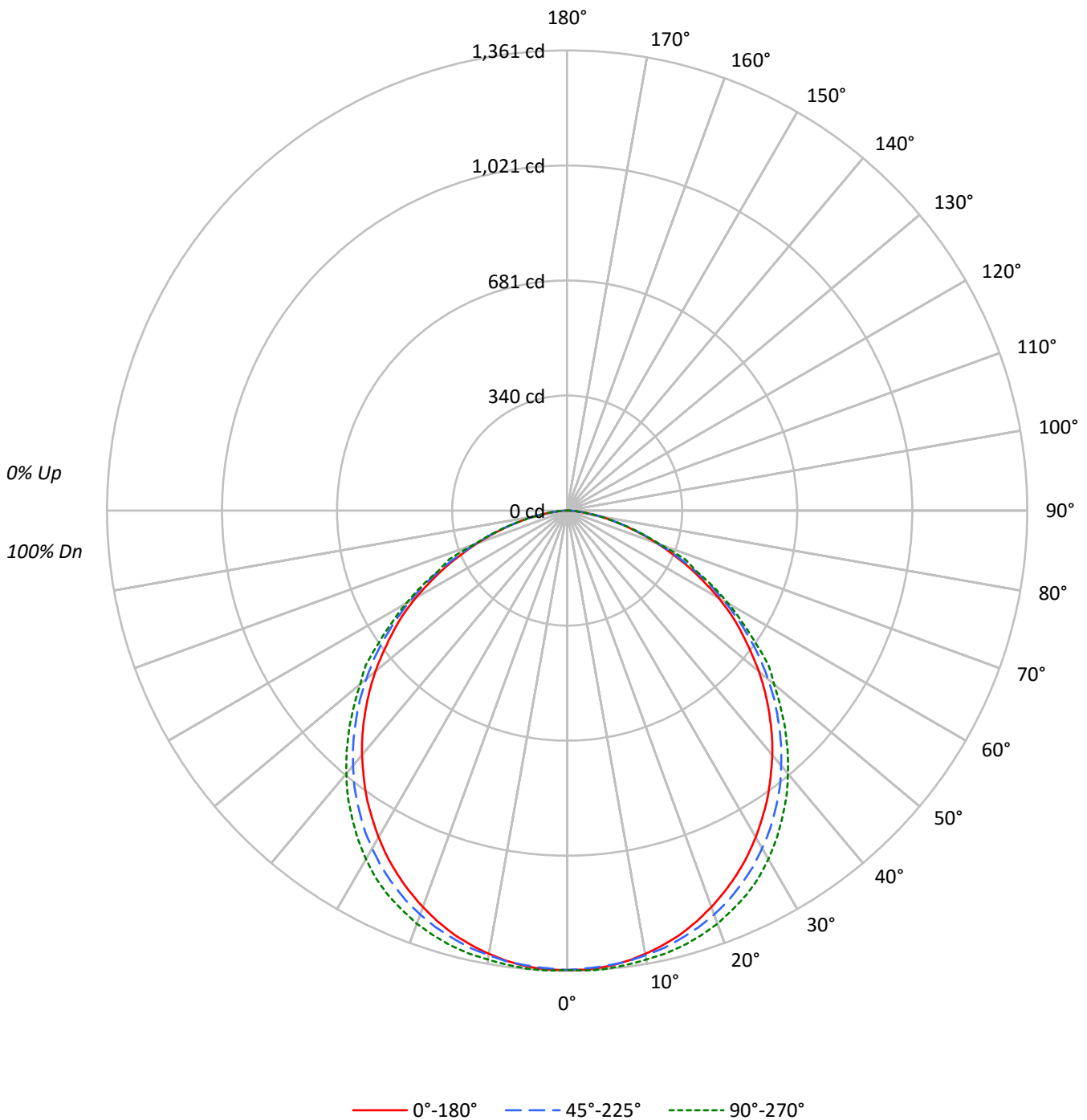
Input Watts (W): 35.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1828	1828	1828
5°	1828	1825	1837
10°	1819	1824	1842
15°	1807	1824	1855
20°	1787	1820	1861
25°	1763	1810	1862
30°	1733	1792	1849
35°	1699	1766	1822
40°	1658	1730	1785
45°	1608	1682	1735
50°	1549	1623	1673
55°	1479	1546	1592
60°	1394	1446	1482
65°	1266	1308	1332
70°	1111	1137	1153
75°	938	952	959
80°	750	760	740
85°	505	525	505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.8	3.5
10°-20°	370.3	10.2
20°-30°	561.9	15.4
30°-40°	670.8	18.4
40°-50°	679.1	18.6
50°-60°	587.0	16.1
60°-70°	406.9	11.2
70°-80°	196.9	5.4
80°-90°	43.3	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°	1061.0	29.1
0°-40°	1731.8	47.5
0°-60°	2998.0	82.2
0°-90°	3645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3645.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1359	1359	1359	1359	1359	
5°	1354	1352	1351	1358	1360	128
15°	1297	1300	1309	1325	1331	366
25°	1188	1195	1219	1244	1254	547
35°	1034	1044	1075	1102	1109	646
45°	845	857	884	906	912	652
55°	630	637	659	687	679	563
65°	398	402	411	417	418	393
75°	180	182	183	182	184	194
85°	33	35	34	33	33	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1358.8	1358.8	1358.8	1358.8	1358.8
2.5°	1358.8	1357.5	1354.9	1358.8	1361.4
5°	1353.6	1352.3	1351.0	1357.5	1360.1
7.5°	1344.4	1344.4	1345.8	1352.3	1354.9
10°	1331.4	1332.7	1335.3	1345.8	1348.4
12.5°	1315.7	1318.3	1324.8	1336.6	1341.8
15°	1297.4	1300.0	1309.1	1324.8	1331.4
17.5°	1273.8	1279.1	1292.1	1310.4	1317.0
20°	1247.7	1254.2	1271.2	1292.1	1300.0
22.5°	1218.9	1225.4	1247.7	1269.9	1277.7
25°	1187.5	1195.4	1218.9	1243.7	1254.2
27.5°	1153.5	1162.7	1188.8	1215.0	1225.4
30°	1115.6	1126.0	1153.5	1181.0	1190.1
32.5°	1075.0	1085.5	1116.9	1143.0	1152.2
35°	1034.5	1043.6	1075.0	1102.5	1109.0
37.5°	988.7	999.2	1033.2	1056.7	1065.9
40°	944.2	954.7	984.8	1008.3	1016.2
42.5°	895.9	906.3	936.4	958.6	965.2
45°	844.9	856.6	884.1	906.3	911.6
47.5°	793.8	803.0	831.8	851.4	855.3
50°	740.2	749.4	775.5	795.2	799.1
52.5°	684.0	698.4	719.3	733.7	750.7
55°	630.4	636.9	659.1	686.6	678.8
57.5°	576.8	580.7	599.0	610.8	613.4
60°	517.9	523.1	537.5	544.1	550.6
62.5°	456.4	460.4	477.4	483.9	486.5
65°	397.6	401.5	410.7	417.2	418.5
67.5°	337.4	341.3	349.2	354.4	378.0
70°	282.5	285.1	289.0	299.5	293.0
72.5°	230.2	231.5	235.4	235.4	236.7
75°	180.5	181.8	183.1	181.8	184.4
77.5°	134.7	137.3	138.6	137.3	136.0
80°	96.8	99.4	98.1	95.5	95.5
82.5°	62.8	64.1	62.8	61.5	61.5
85°	32.7	35.3	34.0	32.7	32.7
87.5°	11.8	13.1	14.4	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)