

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: P297710

Luminaire Tested: **D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297710  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3845.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

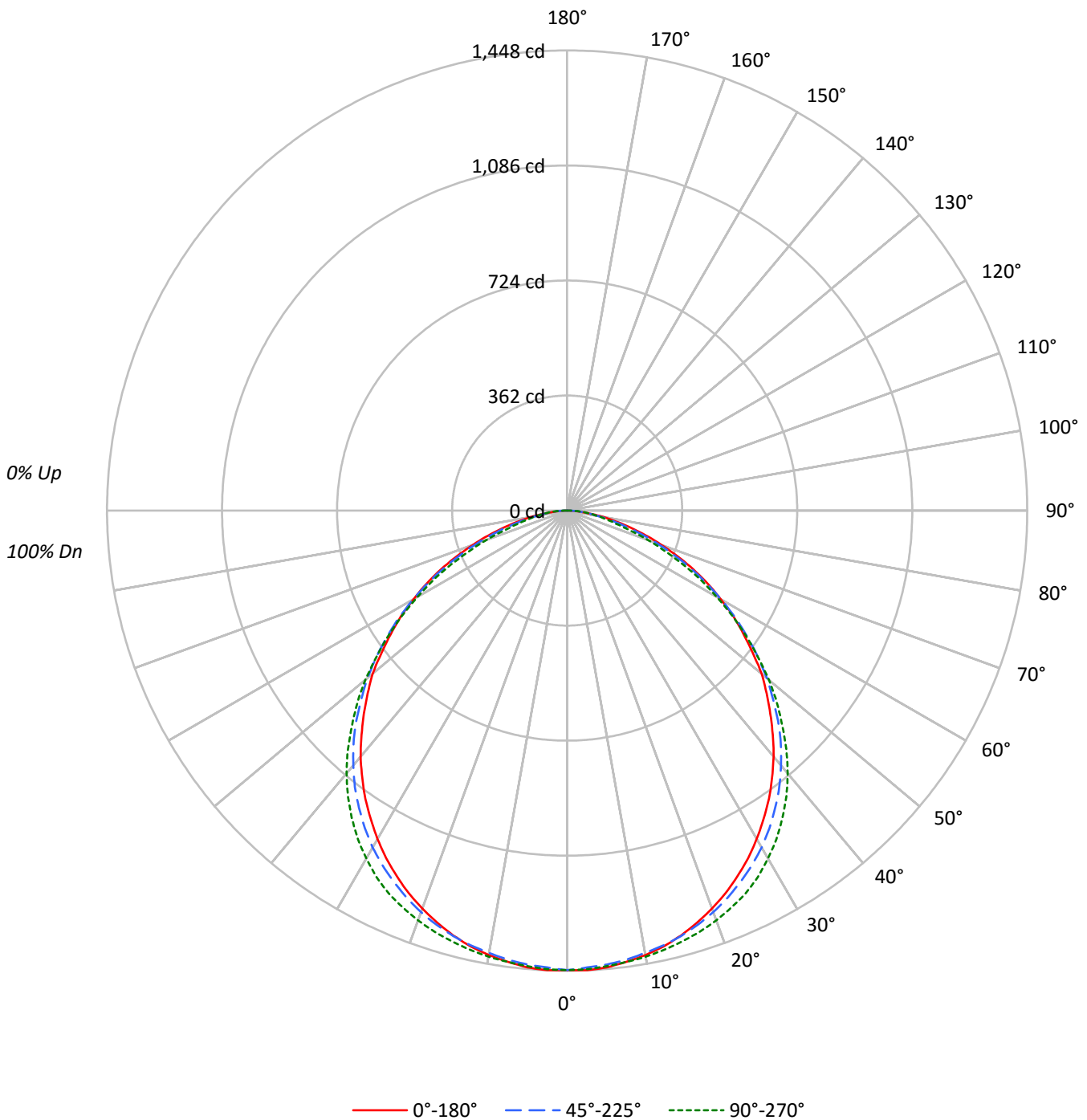
Input Watts (W): 39.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P297710

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P297710

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3500K

**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	82	77	83	79	75	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	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	3891	3891	3891
5°	3897	3874	3888
10°	3881	3862	3895
15°	3856	3861	3909
20°	3816	3851	3929
25°	3768	3829	3946
30°	3708	3804	3927
35°	3638	3751	3880
40°	3551	3678	3793
45°	3442	3573	3645
50°	3347	3434	3470
55°	3179	3243	3227
60°	3007	3007	2924
65°	2792	2726	2573
70°	2476	2367	2138
75°	2145	1948	1645
80°	1759	1519	1492
85°	1167	1380	1485



TEST NUMBER: P297710

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	136.7	3.6
10°-20°	392.5	10.2
20°-30°	596.5	15.5
30°-40°	714.1	18.6
40°-50°	720.3	18.7
50°-60°	613.6	16.0
60°-70°	419.5	10.9
70°-80°	200.9	5.2
80°-90°	50.9	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°	1125.6	29.3
0°-40°	1839.8	47.8
0°-60°	3173.7	82.5
0°-90°	3845.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3845.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1446	1446	1446	1446	1446	
5°	1443	1441	1434	1441	1439	137
15°	1384	1381	1386	1401	1403	390
25°	1269	1271	1290	1319	1329	585
35°	1107	1111	1142	1174	1181	692
45°	904	911	939	958	958	698
55°	678	681	691	693	688	607
65°	438	430	428	413	404	432
75°	206	203	187	163	158	220
85°	38	41	45	46	48	49
90°	0	0	0	0	0	



TEST NUMBER: P297710

CATALOG NUMBER: D3X-WG-40L83050-LD5-UNV-14-T1-W2A-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1446.0	1446.0	1446.0	1446.0	1446.0
2.5°	1447.8	1446.0	1439.2	1446.0	1444.3
5°	1442.6	1440.9	1434.0	1440.9	1439.2
7.5°	1432.3	1430.6	1425.4	1432.3	1432.3
10°	1420.2	1416.8	1413.4	1423.7	1425.4
12.5°	1404.8	1401.3	1401.3	1413.4	1415.1
15°	1384.1	1380.7	1385.9	1401.3	1403.0
17.5°	1360.1	1358.3	1366.9	1385.9	1389.3
20°	1332.6	1330.8	1344.6	1366.9	1372.1
22.5°	1303.3	1303.3	1318.8	1344.6	1351.5
25°	1268.9	1270.7	1289.6	1318.8	1329.1
27.5°	1232.8	1236.3	1258.6	1291.3	1299.9
30°	1193.3	1198.4	1224.2	1255.2	1263.8
32.5°	1150.3	1155.5	1184.7	1217.3	1225.9
35°	1107.3	1110.7	1141.7	1174.4	1181.2
37.5°	1059.2	1064.3	1097.0	1126.2	1133.1
40°	1011.0	1016.2	1047.1	1074.6	1079.8
42.5°	957.7	964.6	995.5	1017.9	1021.3
45°	904.4	911.3	938.8	957.7	957.7
47.5°	851.1	854.6	878.6	897.5	895.8
50°	799.5	797.8	820.2	828.8	828.8
52.5°	735.9	741.1	756.5	761.7	756.5
55°	677.5	680.9	691.2	692.9	687.8
57.5°	620.7	619.0	627.6	622.4	615.6
60°	558.8	558.8	558.8	553.7	543.3
62.5°	498.6	495.2	493.5	481.4	476.3
65°	438.5	429.9	428.1	412.7	404.1
67.5°	374.8	371.4	362.8	347.3	331.8
70°	314.7	311.2	300.9	282.0	271.7
72.5°	259.6	256.2	242.4	220.1	206.3
75°	206.3	202.9	187.4	163.3	158.2
77.5°	156.5	154.7	139.3	127.2	125.5
80°	113.5	111.8	98.0	98.0	96.3
82.5°	72.2	72.2	68.8	70.5	72.2
85°	37.8	41.3	44.7	46.4	48.1
87.5°	12.0	18.9	22.4	24.1	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)