

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: P298326

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298326  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-40L83050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4004.0 lumens  
Efficiency: N/A  
Efficacy: 124.7 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

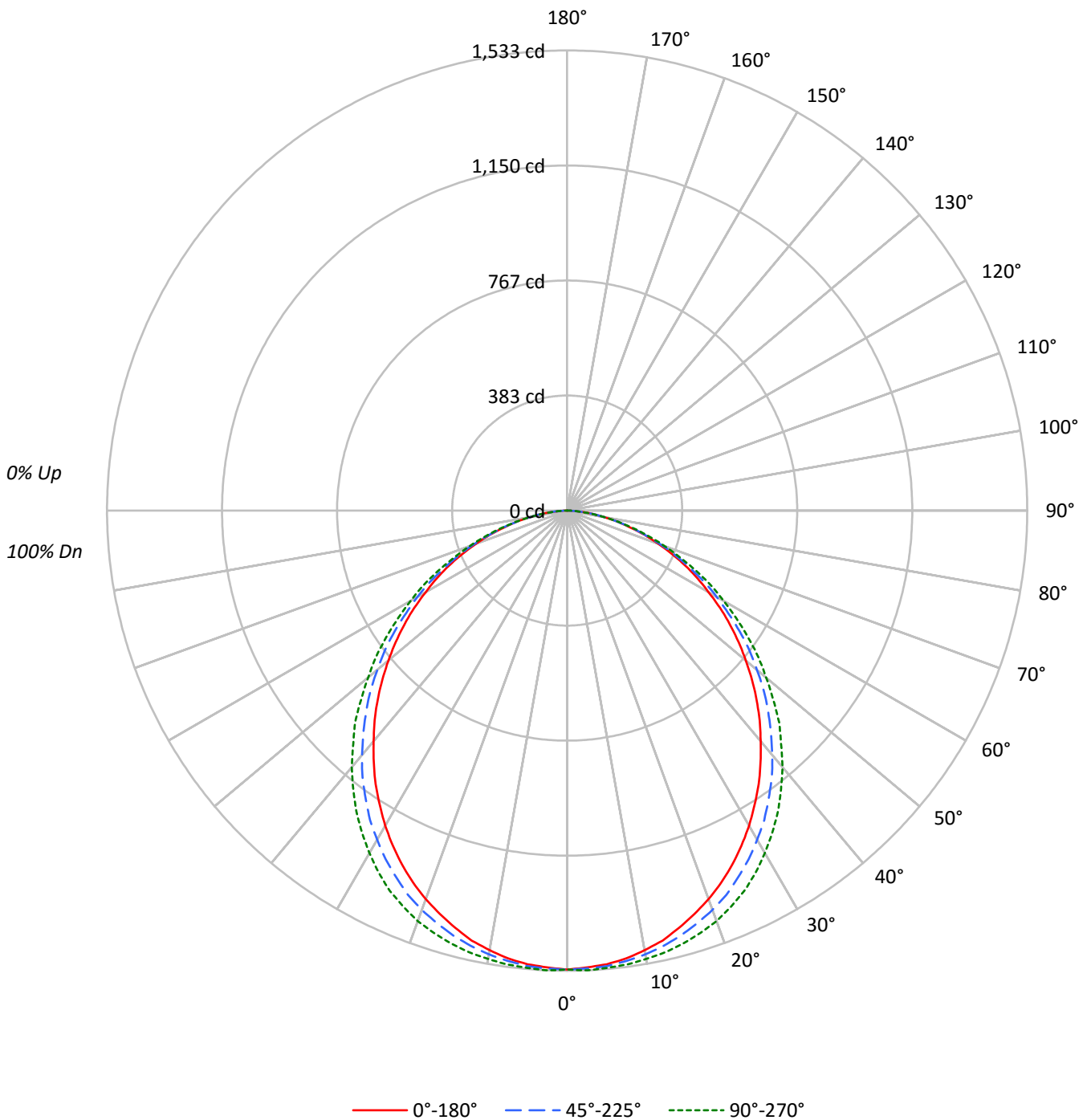
Input Watts (W): 32.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	102	99	95	98	95	92	94	92	89	91	89	87	85																												
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71																												
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60																												
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	4115	4115	4115
5°	4098	4114	4130
10°	4064	4102	4145
15°	4010	4082	4160
20°	3945	4054	4168
25°	3865	4002	4149
30°	3766	3933	4095
35°	3654	3844	4021
40°	3523	3733	3922
45°	3399	3604	3801
50°	3255	3455	3622
55°	3105	3292	3451
60°	2929	3101	3240
65°	2767	2869	3009
70°	2541	2619	2714
75°	2259	2322	2384
80°	1946	1915	1915
85°	1476	1355	1232



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.7	3.6
10°-20°	413.4	10.3
20°-30°	620.8	15.5
30°-40°	730.6	18.2
40°-50°	728.7	18.2
50°-60°	625.3	15.6
60°-70°	447.9	11.2
70°-80°	237.2	5.9
80°-90°	55.5	1.4
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°	1178.9	29.4
0°-40°	1909.5	47.7
0°-60°	3263.5	81.5
0°-90°	4004.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4004.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1529	1529	1529	1529	1529	
5°	1517	1517	1523	1527	1529	144
15°	1439	1445	1465	1485	1493	406
25°	1302	1314	1348	1382	1398	599
35°	1112	1126	1170	1210	1224	695
45°	893	907	947	981	999	688
55°	662	672	702	726	736	592
65°	435	437	451	468	472	429
75°	217	217	223	227	229	233
85°	48	46	44	40	40	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1529.1	1529.1	1529.1	1529.1	1529.1
2.5°	1523.1	1523.1	1527.1	1531.1	1533.1
5°	1517.1	1517.1	1523.1	1527.1	1529.1
7.5°	1505.2	1505.2	1513.1	1521.1	1525.1
10°	1487.2	1491.2	1501.2	1513.1	1517.1
12.5°	1467.3	1471.3	1485.2	1501.2	1507.2
15°	1439.4	1445.4	1465.3	1485.2	1493.2
17.5°	1409.5	1417.4	1441.4	1465.3	1475.3
20°	1377.6	1385.6	1415.5	1443.4	1455.3
22.5°	1341.7	1351.7	1385.6	1415.5	1427.4
25°	1301.8	1313.8	1347.7	1381.6	1397.5
27.5°	1258.0	1271.9	1309.8	1345.7	1359.6
30°	1212.1	1228.1	1265.9	1303.8	1317.8
32.5°	1162.3	1176.2	1222.1	1258.0	1271.9
35°	1112.4	1126.4	1170.2	1210.1	1224.1
37.5°	1058.6	1076.5	1120.4	1156.3	1170.2
40°	1002.8	1020.7	1062.6	1104.5	1116.4
42.5°	949.0	964.9	1004.8	1042.7	1054.6
45°	893.1	907.1	947.0	980.9	998.8
47.5°	835.3	849.3	889.1	921.0	931.0
50°	777.5	791.5	825.4	853.3	865.2
52.5°	719.7	733.6	765.5	791.5	803.4
55°	661.9	671.8	701.7	725.7	735.6
57.5°	604.1	612.0	636.0	661.9	667.9
60°	544.3	554.2	576.2	594.1	602.1
62.5°	490.4	494.4	514.3	530.3	540.3
65°	434.6	436.6	450.6	468.5	472.5
67.5°	376.8	378.8	392.7	402.7	406.7
70°	323.0	323.0	332.9	340.9	344.9
72.5°	271.1	269.1	275.1	283.1	287.1
75°	217.3	217.3	223.3	227.3	229.3
77.5°	171.4	167.5	171.4	175.4	175.4
80°	125.6	123.6	123.6	125.6	123.6
82.5°	85.7	83.7	85.7	81.7	79.7
85°	47.8	45.9	43.9	39.9	39.9
87.5°	15.9	14.0	14.0	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)