

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: P297849

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)  
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-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3834.0 lumens  
Efficiency: N/A  
Efficacy: 97.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

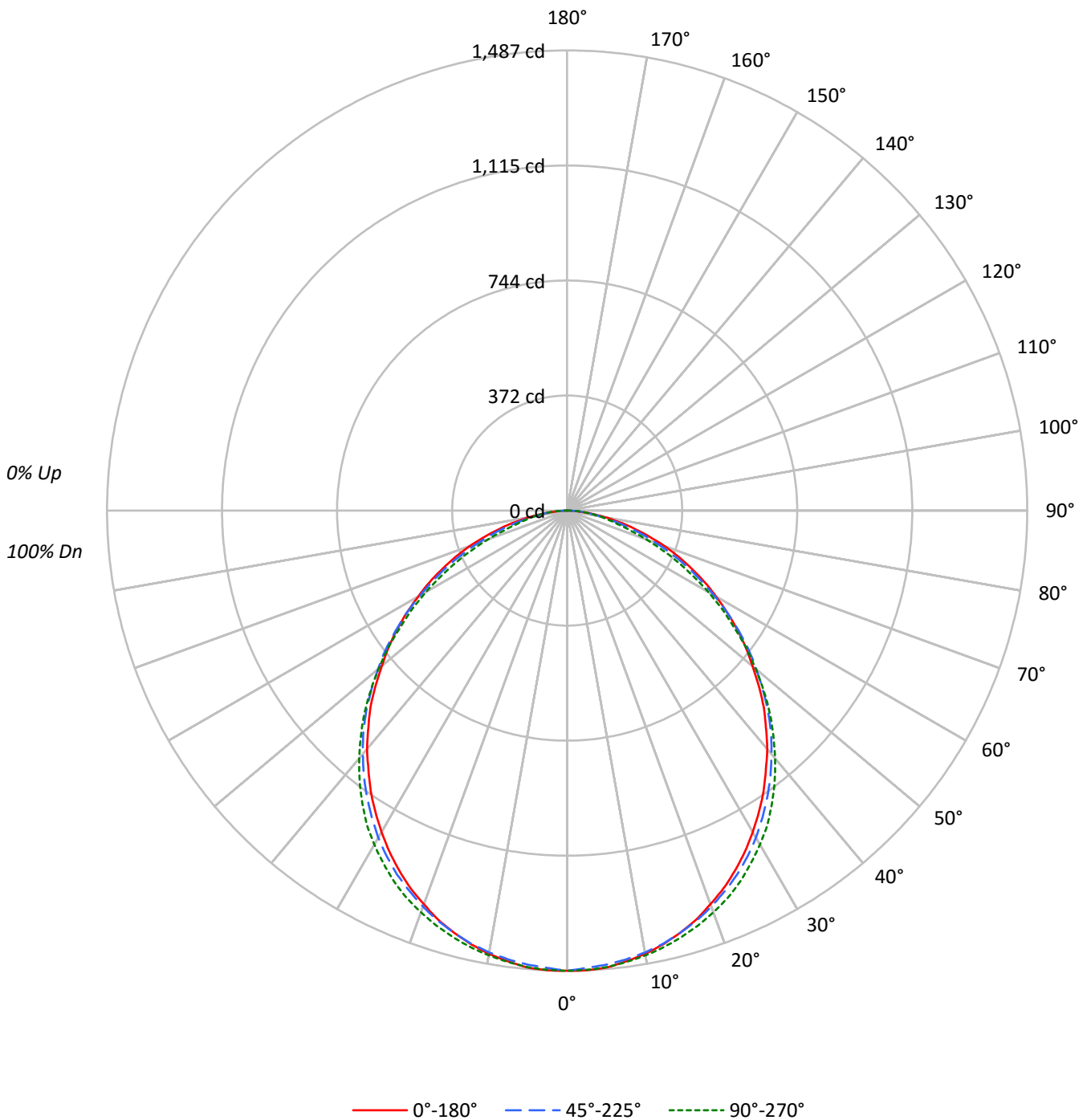
Input Watts (W): 39.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	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	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	4002	4002	4002
5°	4004	3977	3999
10°	3975	3961	3988
15°	3935	3935	3975
20°	3877	3900	3956
25°	3812	3856	3928
30°	3727	3792	3873
35°	3636	3705	3791
40°	3534	3608	3671
45°	3420	3494	3526
50°	3273	3341	3327
55°	3149	3172	3088
60°	2991	2948	2834
65°	2825	2711	2525
70°	2622	2404	2135
75°	2332	2062	1757
80°	1939	1688	1636
85°	1405	1507	1507



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.3	3.7
10°-20°	399.8	10.4
20°-30°	599.2	15.6
30°-40°	705.9	18.4
40°-50°	704.1	18.4
50°-60°	598.9	15.6
60°-70°	418.0	10.9
70°-80°	212.5	5.5
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°	1139.3	29.7
0°-40°	1845.2	48.1
0°-60°	3148.1	82.1
0°-90°	3834.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3834.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1487	1487	1487	1487	1487	
5°	1482	1479	1472	1481	1481	141
15°	1412	1412	1412	1425	1427	398
25°	1284	1286	1299	1318	1323	591
35°	1107	1108	1128	1151	1154	691
45°	899	902	918	925	926	691
55°	671	671	676	666	658	600
65°	444	437	426	403	397	440
75°	224	216	198	174	169	238
85°	46	47	49	49	49	56
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1487.1	1487.1	1487.1	1487.1	1487.1
2.5°	1487.1	1485.5	1478.9	1485.5	1485.5
5°	1482.2	1478.9	1472.4	1480.6	1480.6
7.5°	1469.2	1467.6	1462.7	1470.8	1470.8
10°	1454.6	1452.9	1449.7	1459.4	1459.4
12.5°	1435.1	1435.1	1433.4	1443.2	1444.8
15°	1412.3	1412.3	1412.3	1425.3	1426.9
17.5°	1386.3	1384.7	1389.6	1404.2	1405.8
20°	1353.8	1355.4	1361.9	1378.2	1381.4
22.5°	1321.3	1322.9	1331.1	1350.6	1355.4
25°	1283.9	1285.5	1298.6	1318.1	1322.9
27.5°	1243.3	1246.5	1261.2	1282.3	1285.5
30°	1199.4	1202.7	1220.5	1241.7	1246.5
32.5°	1153.9	1158.8	1175.0	1197.8	1204.3
35°	1106.8	1108.4	1127.9	1150.7	1153.9
37.5°	1054.8	1059.6	1079.1	1098.6	1101.9
40°	1006.0	1009.3	1027.1	1043.4	1045.0
42.5°	950.8	955.6	975.1	986.5	986.5
45°	898.7	902.0	918.2	924.7	926.4
47.5°	840.2	843.5	858.1	861.4	861.4
50°	781.7	789.9	798.0	798.0	794.7
52.5°	728.1	729.7	739.5	733.0	729.7
55°	671.2	671.2	676.1	666.3	658.2
57.5°	614.3	614.3	614.3	601.3	594.8
60°	555.8	554.2	547.7	531.4	526.6
62.5°	500.6	495.7	485.9	469.7	459.9
65°	443.7	437.2	425.8	403.1	396.6
67.5°	390.1	378.7	365.7	344.5	333.2
70°	333.2	323.4	305.5	281.2	271.4
72.5°	277.9	268.2	253.5	229.2	214.5
75°	224.3	216.2	198.3	173.9	169.0
77.5°	172.3	167.4	149.5	138.1	136.5
80°	125.1	123.5	108.9	105.6	105.6
82.5°	82.9	81.3	76.4	76.4	74.8
85°	45.5	47.1	48.8	48.8	48.8
87.5°	16.3	19.5	22.8	22.8	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)