

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: P297852

Luminaire Tested: **D3X-WO-40L83050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297852  
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-4500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4300.0 lumens  
Efficiency: N/A  
Efficacy: 103.9 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

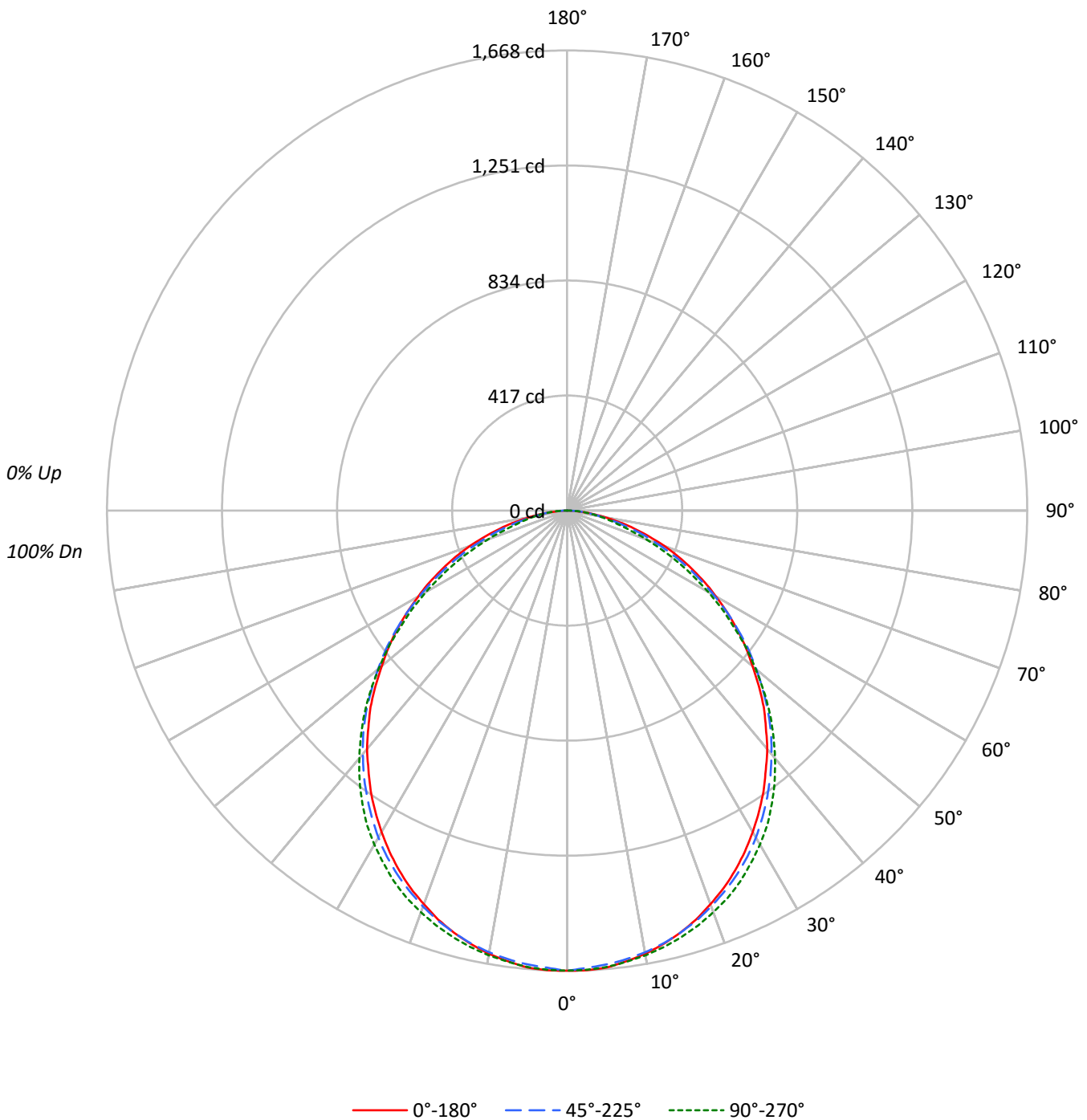
Input Watts (W): 41.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45					45			
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35					35			
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32					32			
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29					29			
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26					26			

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

	0°	45°	90°
0°	4488	4488	4488
5°	4491	4461	4485
10°	4458	4443	4473
15°	4413	4413	4459
20°	4348	4374	4437
25°	4276	4324	4405
30°	4180	4254	4344
35°	4078	4156	4252
40°	3964	4047	4117
45°	3836	3919	3954
50°	3670	3747	3731
55°	3532	3558	3463
60°	3355	3306	3179
65°	3168	3041	2832
70°	2940	2696	2395
75°	2615	2312	1971
80°	2176	1892	1836
85°	1575	1689	1689



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.4	3.7
10°-20°	448.4	10.4
20°-30°	672.0	15.6
30°-40°	791.7	18.4
40°-50°	789.6	18.4
50°-60°	671.7	15.6
60°-70°	468.8	10.9
70°-80°	238.3	5.5
80°-90°	62.2	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°	1277.7	29.7
0°-40°	2069.4	48.1
0°-60°	3530.7	82.1
0°-90°	4300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1668	1668	1668	1668	1668	
5°	1662	1659	1651	1660	1660	158
15°	1584	1584	1584	1599	1600	446
25°	1440	1442	1456	1478	1484	663
35°	1241	1243	1265	1290	1294	776
45°	1008	1012	1030	1037	1039	776
55°	753	753	758	747	738	673
65°	498	490	478	452	445	494
75°	252	242	222	195	190	267
85°	51	53	55	55	55	63
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1667.8	1667.8	1667.8	1667.8	1667.8
2.5°	1667.8	1666.0	1658.7	1666.0	1666.0
5°	1662.4	1658.7	1651.4	1660.5	1660.5
7.5°	1647.8	1645.9	1640.5	1649.6	1649.6
10°	1631.4	1629.5	1625.9	1636.8	1636.8
12.5°	1609.5	1609.5	1607.7	1618.6	1620.4
15°	1584.0	1584.0	1584.0	1598.6	1600.4
17.5°	1554.8	1553.0	1558.5	1574.9	1576.7
20°	1518.4	1520.2	1527.5	1545.7	1549.3
22.5°	1481.9	1483.7	1492.8	1514.7	1520.2
25°	1440.0	1441.8	1456.4	1478.3	1483.7
27.5°	1394.4	1398.1	1414.5	1438.2	1441.8
30°	1345.2	1348.8	1368.9	1392.6	1398.1
32.5°	1294.2	1299.6	1317.9	1343.4	1350.7
35°	1241.3	1243.1	1265.0	1290.5	1294.2
37.5°	1183.0	1188.4	1210.3	1232.2	1235.8
40°	1128.3	1131.9	1152.0	1170.2	1172.0
42.5°	1066.3	1071.8	1093.7	1106.4	1106.4
45°	1008.0	1011.6	1029.9	1037.1	1039.0
47.5°	942.4	946.0	962.4	966.1	966.1
50°	876.7	885.9	895.0	895.0	891.3
52.5°	816.6	818.4	829.4	822.1	818.4
55°	752.8	752.8	758.3	747.3	738.2
57.5°	689.0	689.0	689.0	674.4	667.1
60°	623.4	621.6	614.3	596.0	590.6
62.5°	561.4	555.9	545.0	526.8	515.8
65°	497.6	490.3	477.6	452.0	444.8
67.5°	437.5	424.7	410.1	386.4	373.7
70°	373.7	362.7	342.7	315.3	304.4
72.5°	311.7	300.8	284.3	257.0	240.6
75°	251.5	242.4	222.4	195.0	189.6
77.5°	193.2	187.7	167.7	154.9	153.1
80°	140.4	138.5	122.1	118.5	118.5
82.5°	93.0	91.1	85.7	85.7	83.8
85°	51.0	52.9	54.7	54.7	54.7
87.5°	18.2	21.9	25.5	25.5	25.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)