

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: P297571

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297571  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L83050-LD5-UNV-14-T1-W2A-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4045.0 lumens  
Efficiency: N/A  
Efficacy: 100.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

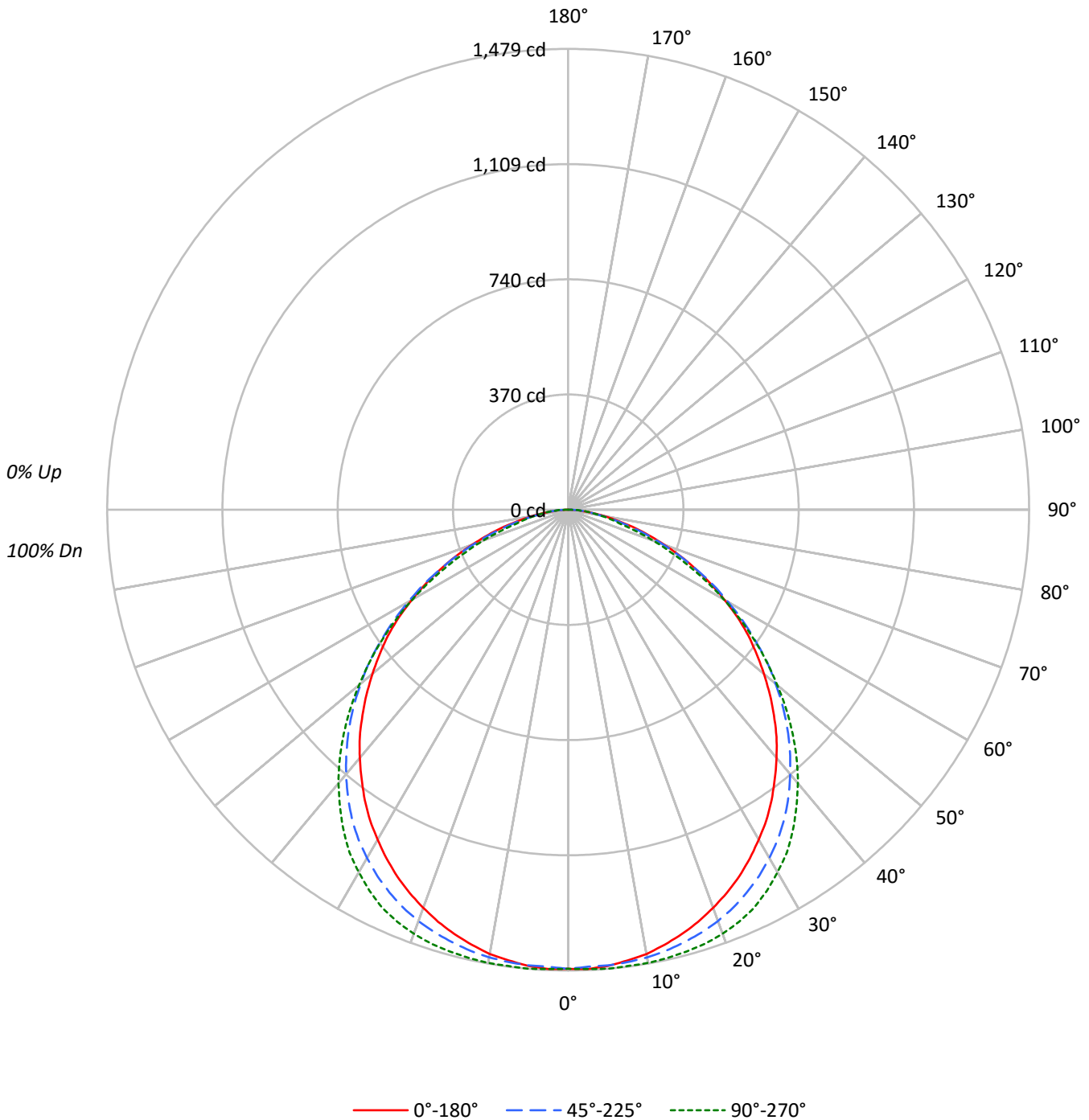
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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	71
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	27		38	32	27		37	31	27	25

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

	0°	45°	90°
0°	3965	3965	3965
5°	3970	3965	3995
10°	3957	3986	4036
15°	3929	4004	4090
20°	3893	4023	4147
25°	3855	4026	4187
30°	3798	4011	4174
35°	3737	3974	4128
40°	3653	3894	4028
45°	3553	3786	3876
50°	3432	3636	3666
55°	3312	3439	3423
60°	3119	3187	3110
65°	2874	2886	2725
70°	2571	2515	2287
75°	2234	2084	1764
80°	1791	1623	1623
85°	1281	1507	1562



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.2	3.5
10°-20°	406.7	10.1
20°-30°	624.5	15.4
30°-40°	752.1	18.6
40°-50°	760.1	18.8
50°-60°	648.3	16.0
60°-70°	443.8	11.0
70°-80°	214.1	5.3
80°-90°	55.2	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°	1171.4	29.0
0°-40°	1923.5	47.6
0°-60°	3331.8	82.4
0°-90°	4045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4045.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1473	1473	1473	1473	1473	
5°	1470	1470	1468	1477	1479	140
15°	1410	1421	1437	1462	1468	398
25°	1298	1318	1356	1396	1410	598
35°	1138	1163	1210	1248	1257	711
45°	934	959	995	1018	1018	720
55°	706	719	733	737	730	629
65°	451	457	453	437	428	448
75°	215	215	200	177	170	228
85°	42	45	49	51	51	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1473.4	1473.4	1473.4	1473.4	1473.4
2.5°	1475.2	1473.4	1468.0	1475.2	1475.2
5°	1469.8	1469.8	1468.0	1477.0	1478.8
7.5°	1458.9	1462.5	1464.3	1475.2	1477.0
10°	1448.1	1451.7	1458.9	1473.4	1477.0
12.5°	1430.0	1437.3	1449.9	1469.8	1473.4
15°	1410.2	1421.0	1437.3	1462.5	1468.0
17.5°	1386.7	1401.2	1422.8	1451.7	1460.7
20°	1359.6	1375.9	1404.8	1437.3	1448.1
22.5°	1330.7	1348.8	1383.1	1421.0	1431.8
25°	1298.2	1318.1	1356.0	1395.7	1410.2
27.5°	1262.1	1283.8	1325.3	1366.8	1379.5
30°	1222.4	1245.9	1291.0	1332.5	1343.4
32.5°	1182.7	1206.1	1253.1	1292.8	1305.5
35°	1137.5	1162.8	1209.8	1247.7	1256.7
37.5°	1088.8	1114.1	1161.0	1198.9	1202.5
40°	1040.0	1065.3	1108.6	1143.0	1146.6
42.5°	989.5	1012.9	1052.7	1081.6	1085.2
45°	933.5	958.8	994.9	1018.4	1018.4
47.5°	877.5	902.8	933.5	949.7	949.7
50°	819.7	843.2	868.5	877.5	875.7
52.5°	762.0	783.6	805.3	807.1	803.5
55°	706.0	718.6	733.1	736.7	729.5
57.5°	644.6	655.4	664.5	659.0	653.6
60°	579.6	590.4	592.2	583.2	577.8
62.5°	516.4	525.4	525.4	511.0	502.0
65°	451.4	456.8	453.2	437.0	427.9
67.5°	390.0	393.6	386.4	370.1	355.7
70°	326.8	328.6	319.6	299.7	290.7
72.5°	269.0	270.8	260.0	236.5	225.7
75°	214.9	214.9	200.4	176.9	169.7
77.5°	160.7	166.1	149.9	137.2	137.2
80°	115.6	121.0	104.7	106.5	104.7
82.5°	75.8	81.3	75.8	75.8	75.8
85°	41.5	45.1	48.8	50.6	50.6
87.5°	12.6	21.7	23.5	25.3	28.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)