

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: P297989

Luminaire Tested: **D3X-WD-40L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297989  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
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-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3501.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

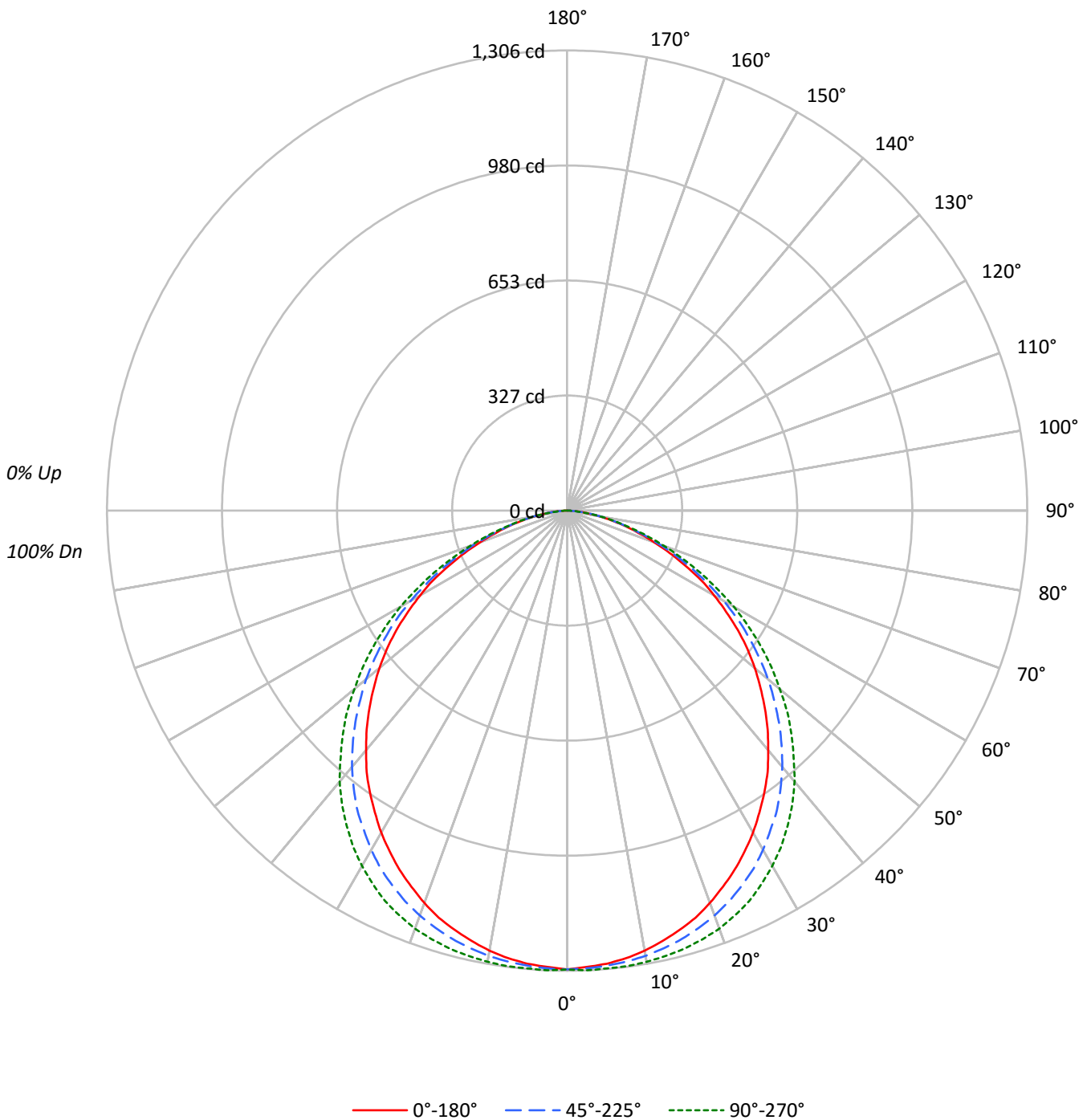
Input Watts (W): 32  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	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	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	3504	3504	3504
5°	3487	3502	3523
10°	3465	3507	3553
15°	3433	3507	3586
20°	3394	3502	3616
25°	3340	3486	3631
30°	3279	3455	3619
35°	3207	3411	3584
40°	3118	3336	3528
45°	3019	3234	3428
50°	2911	3116	3298
55°	2776	2962	3148
60°	2596	2759	2941
65°	2352	2496	2652
70°	2076	2179	2298
75°	1783	1823	1901
80°	1430	1460	1489
85°	1047	932	932



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	123.4	3.5
10°-20°	355.5	10.2
20°-30°	540.7	15.4
30°-40°	646.9	18.5
40°-50°	654.0	18.7
50°-60°	562.8	16.1
60°-70°	388.6	11.1
70°-80°	188.4	5.4
80°-90°	40.9	1.2
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°	1019.6	29.1
0°-40°	1666.4	47.6
0°-60°	2883.2	82.4
0°-90°	3501.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3501.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1302	1302	1302	1302	1302	
5°	1291	1293	1296	1302	1304	123
15°	1232	1240	1259	1278	1287	348
25°	1125	1138	1174	1210	1223	518
35°	976	993	1038	1076	1091	610
45°	793	808	850	886	901	612
55°	592	601	631	660	671	528
65°	369	375	392	409	416	368
75°	172	168	175	181	183	182
85°	34	34	30	30	30	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1302.2	1302.2	1302.2	1302.2	1302.2
2.5°	1296.5	1296.5	1300.3	1304.1	1305.9
5°	1290.9	1292.7	1296.5	1302.2	1304.1
7.5°	1281.4	1283.3	1290.9	1300.3	1304.1
10°	1268.2	1272.0	1283.3	1294.6	1300.3
12.5°	1251.3	1258.8	1272.0	1287.1	1294.6
15°	1232.4	1240.0	1258.8	1277.7	1287.1
17.5°	1211.7	1219.2	1241.9	1266.4	1275.8
20°	1185.3	1196.6	1223.0	1251.3	1262.6
22.5°	1155.2	1170.3	1200.4	1230.6	1243.7
25°	1125.0	1138.2	1174.0	1209.8	1223.0
27.5°	1091.1	1106.2	1145.8	1181.6	1194.8
30°	1055.3	1070.4	1111.8	1151.4	1164.6
32.5°	1015.7	1034.6	1074.1	1115.6	1130.7
35°	976.2	993.1	1038.3	1076.0	1091.1
37.5°	934.7	949.8	995.0	1034.6	1049.6
40°	887.6	904.5	949.8	989.3	1004.4
42.5°	842.4	859.3	900.8	938.5	951.7
45°	793.4	808.4	849.9	885.7	900.8
47.5°	744.4	761.3	797.1	832.9	848.0
50°	695.4	708.6	744.4	778.3	787.7
52.5°	644.5	655.8	687.8	718.0	731.2
55°	591.7	601.1	631.3	659.6	670.9
57.5°	535.2	546.5	574.8	595.5	608.7
60°	482.4	488.1	512.6	533.3	546.5
62.5°	429.7	431.5	450.4	471.1	478.7
65°	369.4	375.0	392.0	408.9	416.5
67.5°	314.7	320.4	333.6	346.7	352.4
70°	263.8	263.8	277.0	286.4	292.1
72.5°	212.9	214.8	224.3	229.9	235.6
75°	171.5	167.7	175.3	180.9	182.8
77.5°	128.1	126.3	131.9	133.8	137.6
80°	92.3	92.3	94.2	96.1	96.1
82.5°	60.3	60.3	62.2	58.4	56.5
85°	33.9	33.9	30.2	30.2	30.2
87.5°	11.3	11.3	11.3	13.2	11.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)