

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: P298046

Luminaire Tested: **D3X-WD-44L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298046  
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-44L82765-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3963.0 lumens  
Efficiency: N/A  
Efficacy: 110.7 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

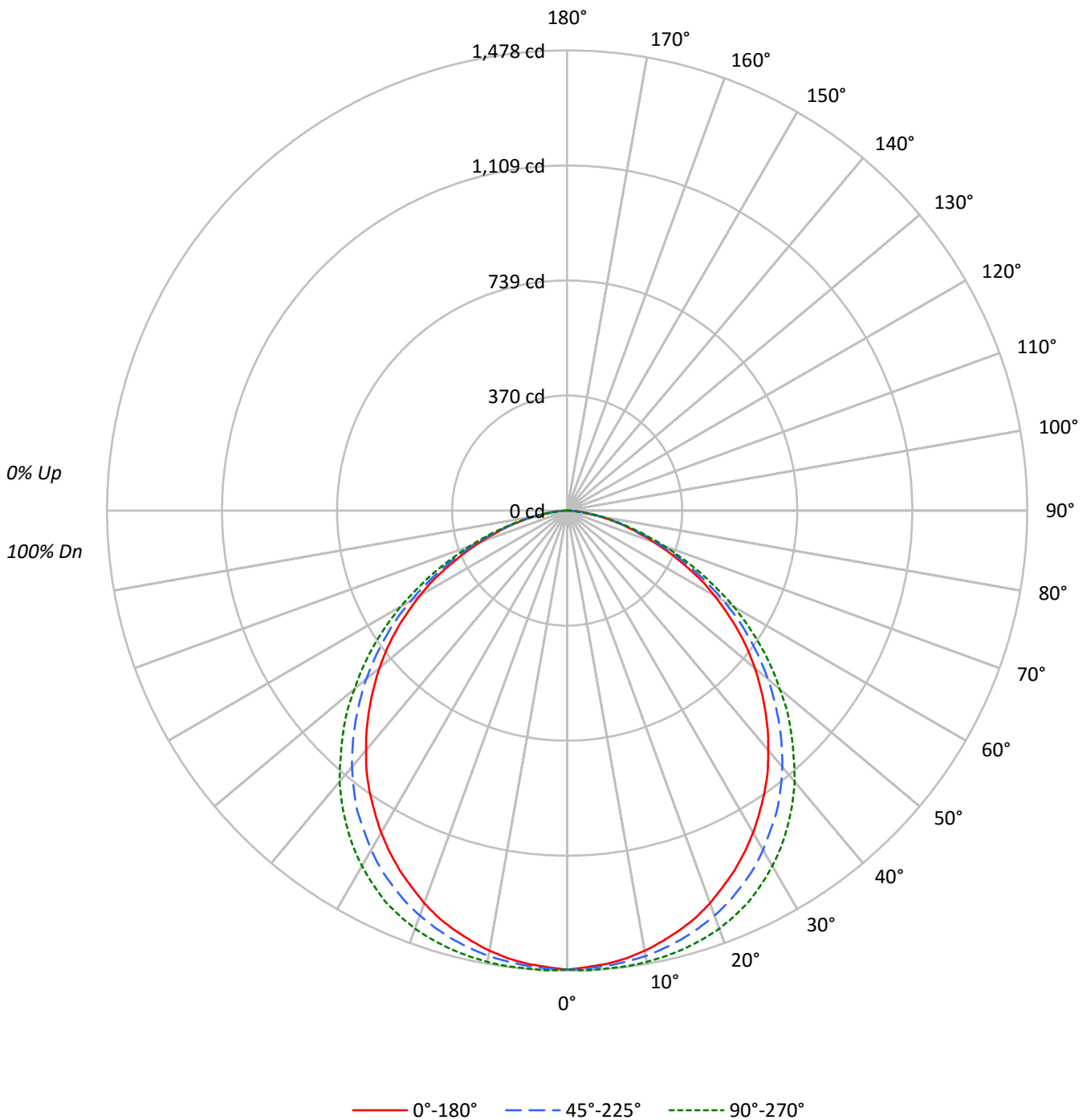
Input Watts (W): 35.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3967	3967	3967
5°	3947	3964	3987
10°	3923	3969	4022
15°	3887	3970	4059
20°	3842	3964	4093
25°	3781	3946	4111
30°	3712	3911	4096
35°	3630	3861	4057
40°	3529	3777	3994
45°	3418	3661	3880
50°	3295	3527	3733
55°	3142	3353	3563
60°	2939	3123	3329
65°	2662	2825	3002
70°	2349	2467	2601
75°	2018	2063	2151
80°	1619	1654	1686
85°	1186	1053	1053



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	3.5
10°-20°	402.4	10.2
20°-30°	612.0	15.4
30°-40°	732.3	18.5
40°-50°	740.3	18.7
50°-60°	637.1	16.1
60°-70°	439.8	11.1
70°-80°	213.3	5.4
80°-90°	46.3	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°	1154.1	29.1
0°-40°	1886.3	47.6
0°-60°	3263.7	82.4
0°-90°	3963.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3963.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1474	1474	1474	1474	1474	
5°	1461	1463	1468	1474	1476	139
15°	1395	1404	1425	1446	1457	394
25°	1274	1288	1329	1370	1384	586
35°	1105	1124	1175	1218	1235	691
45°	898	915	962	1003	1020	693
55°	670	680	715	747	759	597
65°	418	424	444	463	471	416
75°	194	190	198	205	207	206
85°	38	38	34	34	34	47
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1474.0	1474.0	1474.0	1474.0	1474.0
2.5°	1467.6	1467.6	1471.9	1476.1	1478.3
5°	1461.2	1463.3	1467.6	1474.0	1476.1
7.5°	1450.5	1452.7	1461.2	1471.9	1476.1
10°	1435.6	1439.9	1452.7	1465.5	1471.9
12.5°	1416.4	1424.9	1439.9	1456.9	1465.5
15°	1395.1	1403.6	1424.9	1446.3	1456.9
17.5°	1371.6	1380.1	1405.7	1433.5	1444.1
20°	1341.7	1354.5	1384.4	1416.4	1429.2
22.5°	1307.6	1324.7	1358.8	1392.9	1407.9
25°	1273.5	1288.4	1328.9	1369.5	1384.4
27.5°	1235.1	1252.2	1297.0	1337.5	1352.4
30°	1194.6	1211.6	1258.6	1303.4	1318.3
32.5°	1149.8	1171.1	1215.9	1262.8	1279.9
35°	1105.0	1124.2	1175.4	1218.0	1235.1
37.5°	1058.0	1075.1	1126.3	1171.1	1188.2
40°	1004.7	1023.9	1075.1	1119.9	1137.0
42.5°	953.5	972.7	1019.6	1062.3	1077.2
45°	898.1	915.1	962.0	1002.6	1019.6
47.5°	842.6	861.8	902.3	942.9	959.9
50°	787.1	802.1	842.6	881.0	891.7
52.5°	729.5	742.3	778.6	812.7	827.7
55°	669.8	680.5	714.6	746.6	759.4
57.5°	605.8	618.6	650.6	674.1	689.0
60°	546.1	552.5	580.2	603.7	618.6
62.5°	486.4	488.5	509.8	533.3	541.8
65°	418.1	424.5	443.7	462.9	471.4
67.5°	356.2	362.6	377.6	392.5	398.9
70°	298.6	298.6	313.6	324.2	330.6
72.5°	241.0	243.2	253.8	260.2	266.6
75°	194.1	189.8	198.4	204.8	206.9
77.5°	145.1	142.9	149.3	151.5	155.7
80°	104.5	104.5	106.7	108.8	108.8
82.5°	68.3	68.3	70.4	66.1	64.0
85°	38.4	38.4	34.1	34.1	34.1
87.5°	12.8	12.8	12.8	14.9	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)