

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: P298213

Luminaire Tested: **D3X-WG-44L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298213  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-44L82765-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3884.0 lumens  
Efficiency: N/A  
Efficacy: 110.0 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

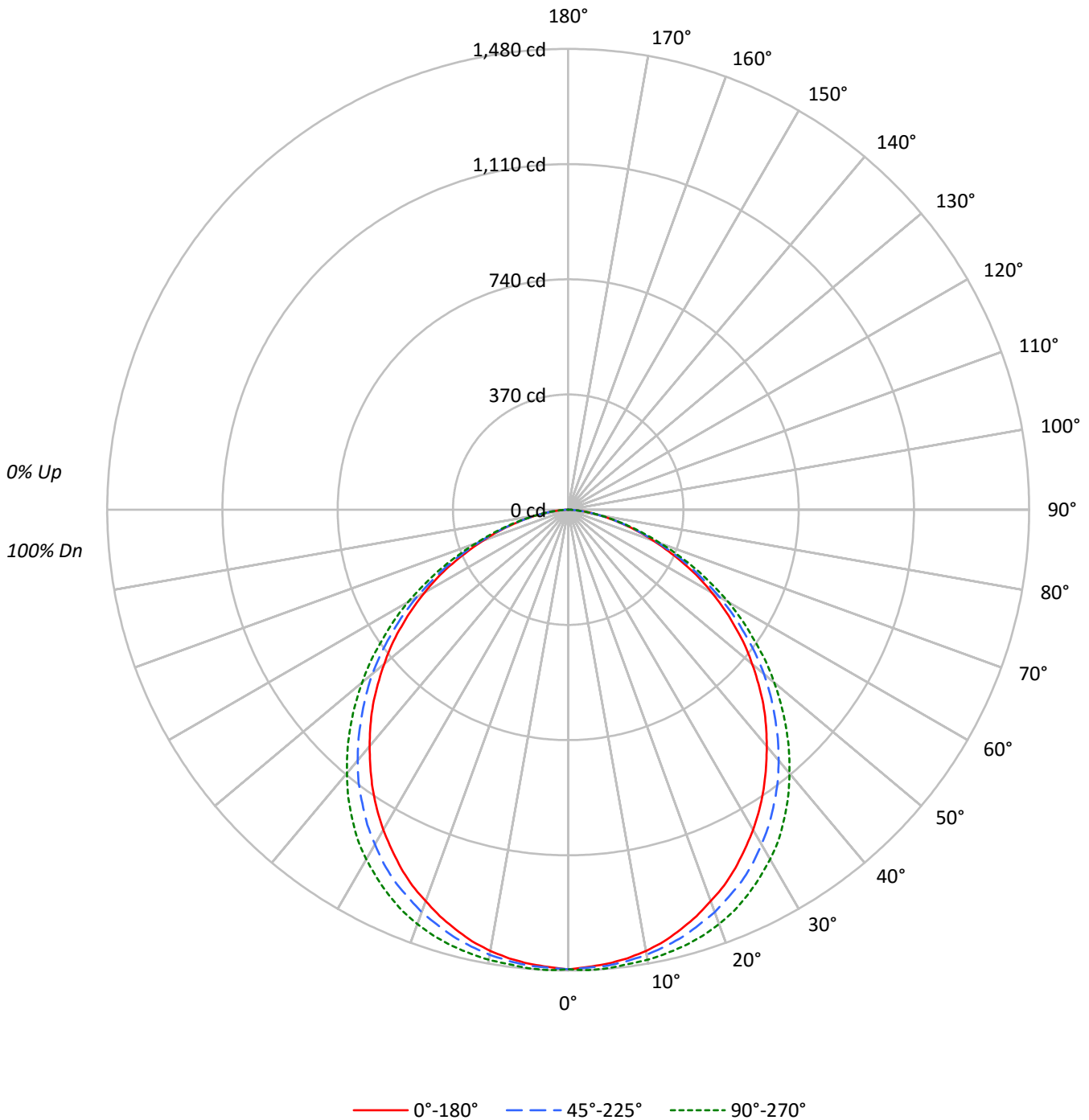
Input Watts (W): 35.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	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	47	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	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

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

	0°	45°	90°
0°	3972	3972	3972
5°	3954	3970	3993
10°	3932	3966	4011
15°	3888	3957	4037
20°	3831	3938	4056
25°	3771	3911	4052
30°	3690	3856	4029
35°	3596	3786	3975
40°	3483	3693	3881
45°	3373	3570	3766
50°	3228	3435	3616
55°	3066	3240	3414
60°	2863	3018	3195
65°	2612	2730	2888
70°	2287	2384	2482
75°	1951	1993	2079
80°	1565	1598	1629
85°	1145	1081	1019



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	139.7	3.6
10°-20°	401.0	10.3
20°-30°	606.2	15.6
30°-40°	720.0	18.5
40°-50°	722.9	18.6
50°-60°	617.4	15.9
60°-70°	425.4	11.0
70°-80°	206.3	5.3
80°-90°	45.1	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°	1146.9	29.5
0°-40°	1866.9	48.1
0°-60°	3207.2	82.6
0°-90°	3884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3884.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1476	1476	1476	1476	1476	
5°	1464	1464	1470	1474	1478	139
15°	1396	1402	1420	1439	1449	393
25°	1270	1280	1317	1352	1365	584
35°	1095	1111	1152	1196	1210	684
45°	886	899	938	977	990	682
55°	654	664	691	720	728	584
65°	410	410	429	447	454	406
75°	188	184	192	196	200	202
85°	37	37	35	33	33	45
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1476.0	1476.0	1476.0	1476.0	1476.0
2.5°	1469.8	1469.8	1471.9	1478.1	1480.1
5°	1463.6	1463.6	1469.8	1473.9	1478.1
7.5°	1453.3	1455.4	1461.6	1469.8	1471.9
10°	1438.9	1441.0	1451.3	1461.6	1467.8
12.5°	1420.3	1424.5	1436.8	1453.3	1459.5
15°	1395.6	1401.8	1420.3	1438.9	1449.2
17.5°	1368.8	1377.1	1397.7	1424.5	1434.8
20°	1337.9	1348.2	1375.0	1403.9	1416.2
22.5°	1307.0	1315.2	1346.1	1379.1	1393.6
25°	1269.9	1280.2	1317.3	1352.3	1364.7
27.5°	1228.6	1243.1	1282.2	1319.3	1331.7
30°	1187.4	1199.8	1241.0	1282.2	1296.7
32.5°	1142.1	1154.4	1199.8	1241.0	1257.5
35°	1094.6	1111.1	1152.4	1195.6	1210.1
37.5°	1043.1	1061.7	1104.9	1142.1	1160.6
40°	991.6	1008.1	1051.3	1090.5	1104.9
42.5°	940.0	954.5	995.7	1036.9	1049.3
45°	886.4	898.8	938.0	977.1	989.5
47.5°	828.7	843.1	880.2	913.2	927.7
50°	771.0	785.4	820.5	851.4	863.8
52.5°	715.3	723.6	756.6	785.4	799.8
55°	653.5	663.8	690.6	719.5	727.7
57.5°	593.7	599.9	626.7	651.4	663.8
60°	531.9	536.0	560.7	579.3	593.7
62.5°	474.1	474.1	492.7	513.3	521.6
65°	410.2	410.2	428.8	447.3	453.5
67.5°	348.4	352.5	364.9	379.3	383.4
70°	290.7	290.7	303.0	313.3	315.4
72.5°	239.1	237.1	243.3	251.5	255.6
75°	187.6	183.5	191.7	195.8	200.0
77.5°	142.2	140.2	144.3	148.4	148.4
80°	101.0	99.0	103.1	103.1	105.1
82.5°	66.0	68.0	68.0	66.0	63.9
85°	37.1	37.1	35.0	33.0	33.0
87.5°	12.4	12.4	12.4	14.4	14.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)