

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: P298037

Luminaire Tested: **D3X-WD-40L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298037  
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-40L82765-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: 3618.0 lumens  
Efficiency: N/A  
Efficacy: 112.0 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

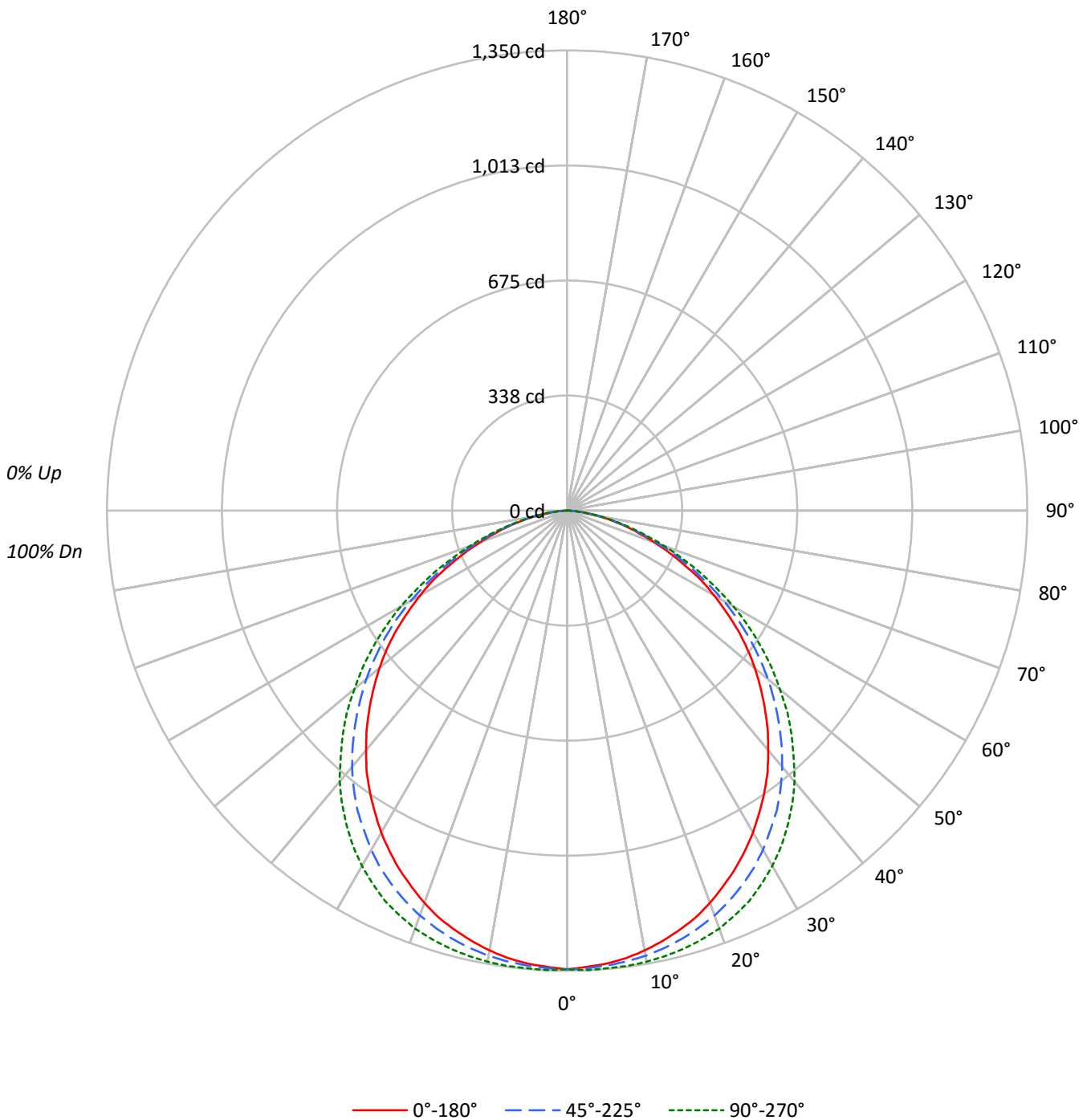
Input Watts (W): 32.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	3621	3621	3621
5°	3603	3619	3640
10°	3581	3624	3672
15°	3548	3624	3706
20°	3508	3619	3737
25°	3452	3602	3753
30°	3389	3570	3740
35°	3314	3525	3704
40°	3222	3448	3646
45°	3120	3342	3543
50°	3008	3220	3408
55°	2869	3061	3253
60°	2683	2851	3040
65°	2430	2579	2741
70°	2145	2253	2375
75°	1842	1883	1964
80°	1478	1509	1539
85°	1084	963	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.5	3.5
10°-20°	367.4	10.2
20°-30°	558.7	15.4
30°-40°	668.5	18.5
40°-50°	675.8	18.7
50°-60°	581.6	16.1
60°-70°	401.5	11.1
70°-80°	194.7	5.4
80°-90°	42.2	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°	1053.6	29.1
0°-40°	1722.1	47.6
0°-60°	2979.5	82.4
0°-90°	3618.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3618.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1334	1336	1340	1346	1348	127
15°	1274	1281	1301	1320	1330	359
25°	1163	1176	1213	1250	1264	535
35°	1009	1026	1073	1112	1128	631
45°	820	836	878	915	931	632
55°	612	621	652	682	693	545
65°	382	388	405	423	430	380
75°	177	173	181	187	189	188
85°	35	35	31	31	31	43
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1345.7	1345.7	1345.7	1345.7	1345.7
2.5°	1339.8	1339.8	1343.7	1347.6	1349.6
5°	1334.0	1335.9	1339.8	1345.7	1347.6
7.5°	1324.3	1326.2	1334.0	1343.7	1347.6
10°	1310.6	1314.5	1326.2	1337.9	1343.7
12.5°	1293.1	1300.9	1314.5	1330.1	1337.9
15°	1273.6	1281.4	1300.9	1320.4	1330.1
17.5°	1252.2	1260.0	1283.4	1308.7	1318.4
20°	1224.9	1236.6	1263.9	1293.1	1304.8
22.5°	1193.8	1209.4	1240.5	1271.7	1285.3
25°	1162.6	1176.3	1213.3	1250.3	1263.9
27.5°	1127.6	1143.1	1184.0	1221.0	1234.7
30°	1090.6	1106.1	1149.0	1189.9	1203.5
32.5°	1049.7	1069.1	1110.0	1152.9	1168.5
35°	1008.8	1026.3	1073.0	1112.0	1127.6
37.5°	965.9	981.5	1028.3	1069.1	1084.7
40°	917.2	934.8	981.5	1022.4	1038.0
42.5°	870.5	888.0	930.9	969.8	983.5
45°	819.9	835.5	878.3	915.3	930.9
47.5°	769.2	786.8	823.8	860.8	876.3
50°	718.6	732.2	769.2	804.3	814.0
52.5°	666.0	677.7	710.8	742.0	755.6
55°	611.5	621.2	652.4	681.6	693.3
57.5°	553.1	564.8	594.0	615.4	629.0
60°	498.5	504.4	529.7	551.1	564.8
62.5°	444.0	446.0	465.4	486.9	494.7
65°	381.7	387.5	405.1	422.6	430.4
67.5°	325.2	331.1	344.7	358.3	364.2
70°	272.6	272.6	286.3	296.0	301.9
72.5°	220.1	222.0	231.7	237.6	243.4
75°	177.2	173.3	181.1	187.0	188.9
77.5°	132.4	130.5	136.3	138.3	142.2
80°	95.4	95.4	97.4	99.3	99.3
82.5°	62.3	62.3	64.3	60.4	58.4
85°	35.1	35.1	31.2	31.2	31.2
87.5°	11.7	11.7	11.7	13.6	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)