

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: P298209

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298209  
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-40L82765-LD5-UNV-22-T1-W2A-5500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3906.0 lumens  
Efficiency: N/A  
Efficacy: 118.4 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

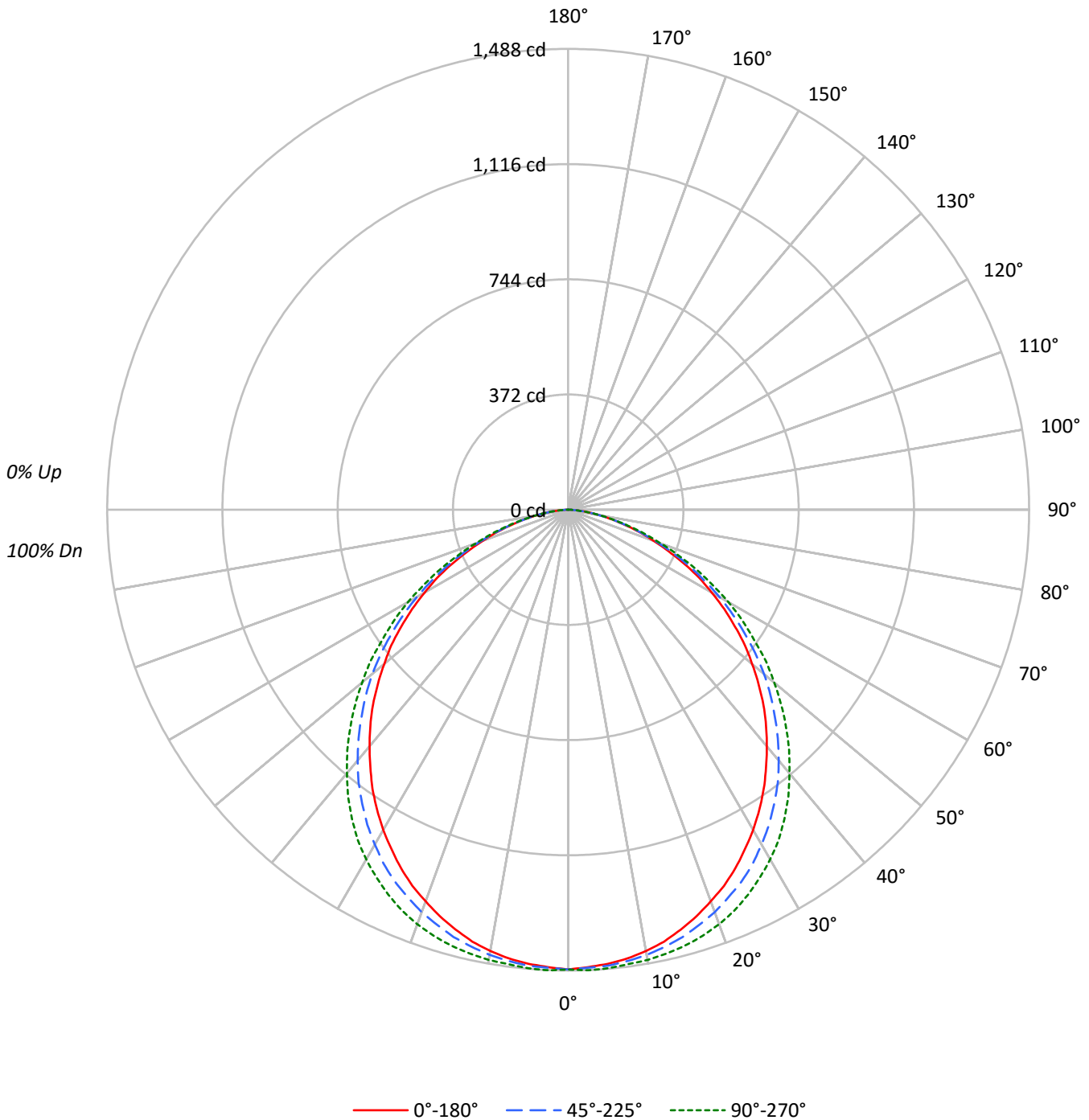
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3994	3994	3994
5°	3976	3993	4015
10°	3954	3988	4033
15°	3910	3979	4060
20°	3853	3960	4078
25°	3792	3933	4075
30°	3710	3878	4052
35°	3616	3807	3998
40°	3503	3714	3903
45°	3393	3590	3787
50°	3246	3454	3636
55°	3083	3258	3433
60°	2879	3035	3214
65°	2627	2746	2904
70°	2300	2398	2496
75°	1962	2005	2091
80°	1574	1607	1638
85°	1152	1087	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	140.5	3.6
10°-20°	403.2	10.3
20°-30°	609.6	15.6
30°-40°	724.1	18.5
40°-50°	727.0	18.6
50°-60°	620.9	15.9
60°-70°	427.8	11.0
70°-80°	207.4	5.3
80°-90°	45.4	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°	1153.4	29.5
0°-40°	1877.5	48.1
0°-60°	3225.4	82.6
0°-90°	3906.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3906.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1484	1484	1484	1484	1484	
5°	1472	1472	1478	1482	1486	140
15°	1404	1410	1428	1447	1457	396
25°	1277	1287	1325	1360	1372	588
35°	1101	1117	1159	1202	1217	688
45°	892	904	943	983	995	686
55°	657	668	694	724	732	588
65°	413	413	431	450	456	409
75°	189	184	193	197	201	203
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°	1484.4	1484.4	1484.4	1484.4	1484.4
2.5°	1478.2	1478.2	1480.2	1486.4	1488.5
5°	1471.9	1471.9	1478.2	1482.3	1486.4
7.5°	1461.6	1463.6	1469.9	1478.2	1480.2
10°	1447.1	1449.1	1459.5	1469.9	1476.1
12.5°	1428.4	1432.5	1445.0	1461.6	1467.8
15°	1403.5	1409.7	1428.4	1447.1	1457.4
17.5°	1376.6	1384.9	1405.6	1432.5	1442.9
20°	1345.5	1355.8	1382.8	1411.8	1424.2
22.5°	1314.4	1322.7	1353.8	1386.9	1401.4
25°	1277.1	1287.4	1324.7	1360.0	1372.4
27.5°	1235.6	1250.1	1289.5	1326.8	1339.2
30°	1194.1	1206.6	1248.0	1289.5	1304.0
32.5°	1148.5	1161.0	1206.6	1248.0	1264.6
35°	1100.8	1117.4	1158.9	1202.4	1216.9
37.5°	1049.0	1067.7	1111.2	1148.5	1167.2
40°	997.2	1013.8	1057.3	1096.7	1111.2
42.5°	945.4	959.9	1001.3	1042.8	1055.2
45°	891.5	903.9	943.3	982.7	995.1
47.5°	833.4	847.9	885.2	918.4	932.9
50°	775.4	789.9	825.1	856.2	868.6
52.5°	719.4	727.7	760.8	789.9	804.4
55°	657.2	667.6	694.5	723.5	731.8
57.5°	597.1	603.3	630.2	655.1	667.6
60°	534.9	539.0	563.9	582.6	597.1
62.5°	476.8	476.8	495.5	516.2	524.5
65°	412.6	412.6	431.2	449.9	456.1
67.5°	350.4	354.5	366.9	381.5	385.6
70°	292.3	292.3	304.8	315.1	317.2
72.5°	240.5	238.4	244.6	252.9	257.1
75°	188.7	184.5	192.8	196.9	201.1
77.5°	143.0	141.0	145.1	149.3	149.3
80°	101.6	99.5	103.7	103.7	105.7
82.5°	66.3	68.4	68.4	66.3	64.3
85°	37.3	37.3	35.2	33.2	33.2
87.5°	12.4	12.4	12.4	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)