

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: P298204

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298204  
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-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: 3547.0 lumens  
Efficiency: N/A  
Efficacy: 111.2 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

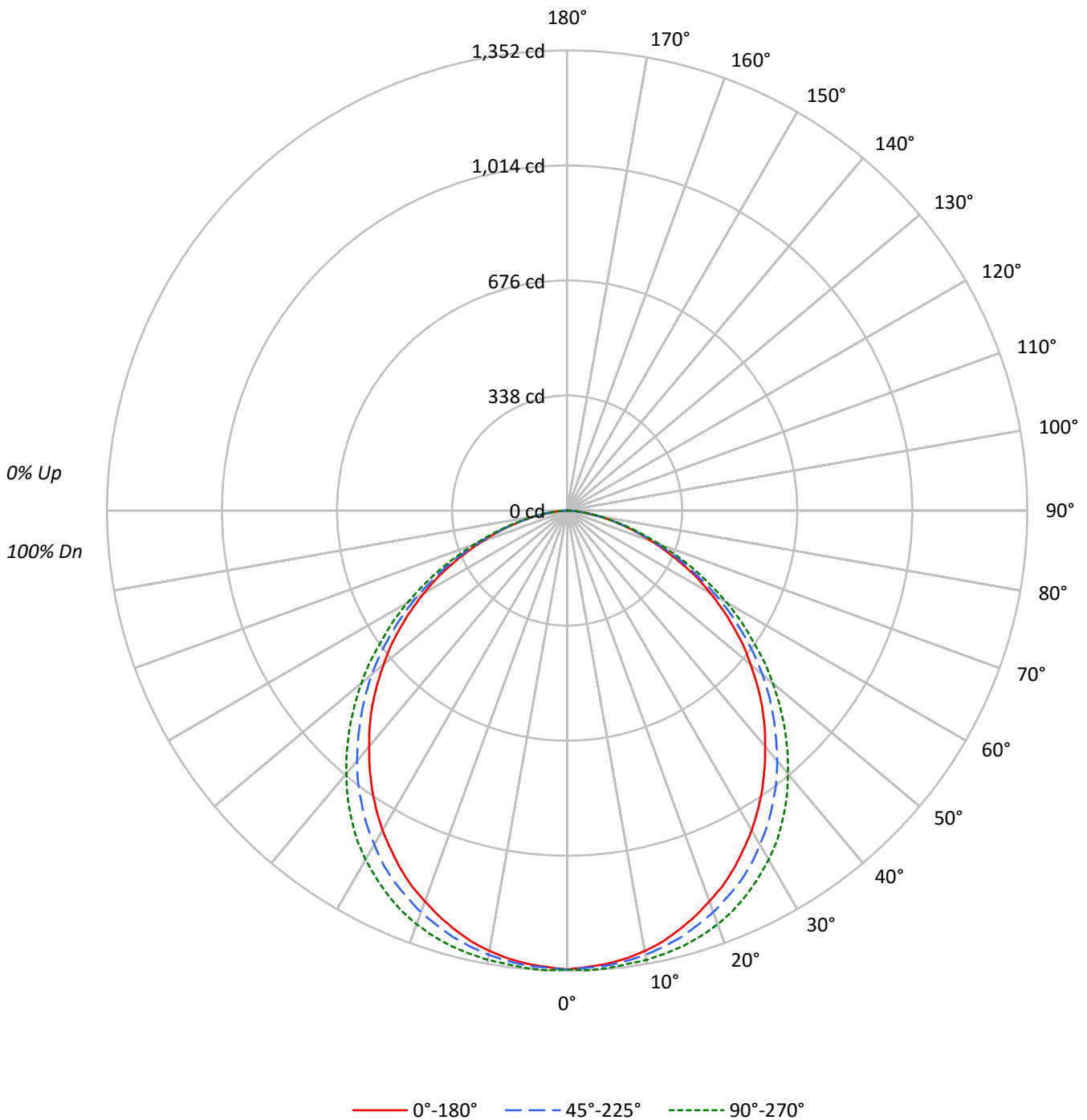
Input Watts (W): 31.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	86	80	97	90	84	79	87	82	77	83	79	76	80	77	74
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	84	72	64	57	82	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28

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

	0°	45°	90°
0°	3627	3627	3627
5°	3611	3626	3646
10°	3591	3622	3663
15°	3551	3614	3687
20°	3499	3596	3704
25°	3443	3572	3700
30°	3370	3521	3680
35°	3284	3457	3630
40°	3181	3373	3545
45°	3081	3260	3439
50°	2948	3137	3302
55°	2800	2959	3118
60°	2614	2756	2918
65°	2385	2493	2637
70°	2088	2177	2266
75°	1781	1821	1899
80°	1429	1458	1488
85°	1047	988	929



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.6	3.6
10°-20°	366.2	10.3
20°-30°	553.6	15.6
30°-40°	657.6	18.5
40°-50°	660.1	18.6
50°-60°	563.9	15.9
60°-70°	388.5	11.0
70°-80°	188.4	5.3
80°-90°	41.2	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°	1047.4	29.5
0°-40°	1704.9	48.1
0°-60°	2928.9	82.6
0°-90°	3547.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3547.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1337	1337	1342	1346	1350	127
15°	1274	1280	1297	1314	1324	359
25°	1160	1169	1203	1235	1246	534
35°	1000	1015	1052	1092	1105	624
45°	810	821	857	892	904	623
55°	597	606	631	657	665	534
65°	375	375	392	408	414	371
75°	171	168	175	179	183	184
85°	34	34	32	30	30	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1347.9	1347.9	1347.9	1347.9	1347.9
2.5°	1342.3	1342.3	1344.2	1349.8	1351.7
5°	1336.6	1336.6	1342.3	1346.1	1349.8
7.5°	1327.2	1329.1	1334.8	1342.3	1344.2
10°	1314.1	1315.9	1325.4	1334.8	1340.4
12.5°	1297.1	1300.9	1312.2	1327.2	1332.9
15°	1274.5	1280.2	1297.1	1314.1	1323.5
17.5°	1250.0	1257.6	1276.4	1300.9	1310.3
20°	1221.8	1231.2	1255.7	1282.1	1293.3
22.5°	1193.6	1201.1	1229.3	1259.5	1272.6
25°	1159.7	1169.1	1203.0	1235.0	1246.3
27.5°	1122.0	1135.2	1171.0	1204.9	1216.2
30°	1084.4	1095.7	1133.3	1171.0	1184.2
32.5°	1043.0	1054.3	1095.7	1133.3	1148.4
35°	999.7	1014.7	1052.4	1091.9	1105.1
37.5°	952.6	969.5	1009.1	1043.0	1059.9
40°	905.5	920.6	960.1	995.9	1009.1
42.5°	858.5	871.6	909.3	946.9	958.2
45°	809.5	820.8	856.6	892.4	903.6
47.5°	756.8	770.0	803.9	834.0	847.2
50°	704.1	717.3	749.3	777.5	788.8
52.5°	653.3	660.8	690.9	717.3	730.4
55°	596.8	606.2	630.7	657.0	664.6
57.5°	542.2	547.8	572.3	594.9	606.2
60°	485.7	489.5	512.1	529.0	542.2
62.5°	433.0	433.0	449.9	468.8	476.3
65°	374.6	374.6	391.6	408.5	414.2
67.5°	318.2	321.9	333.2	346.4	350.2
70°	265.4	265.4	276.7	286.2	288.0
72.5°	218.4	216.5	222.1	229.7	233.4
75°	171.3	167.6	175.1	178.8	182.6
77.5°	129.9	128.0	131.8	135.5	135.5
80°	92.2	90.4	94.1	94.1	96.0
82.5°	60.2	62.1	62.1	60.2	58.4
85°	33.9	33.9	32.0	30.1	30.1
87.5°	11.3	11.3	11.3	13.2	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)