

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: P298203

Luminaire Tested: **D3X-WG-40L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298203  
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-2700K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3447.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 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

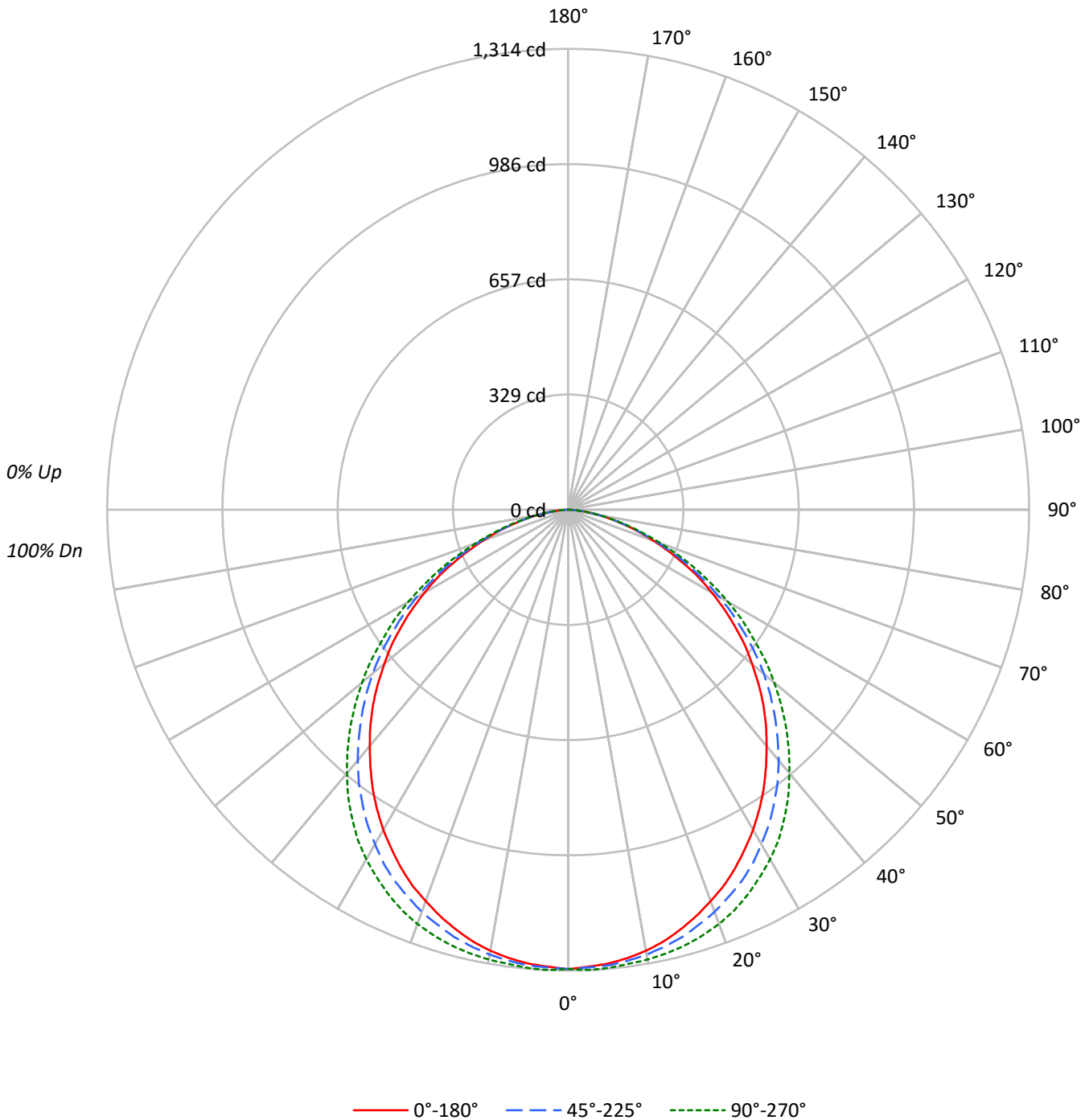
Input Watts (W): 32.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3525	3525	3525
5°	3509	3524	3544
10°	3489	3519	3559
15°	3451	3512	3583
20°	3400	3495	3599
25°	3346	3471	3596
30°	3274	3422	3576
35°	3191	3360	3528
40°	3091	3278	3445
45°	2994	3168	3342
50°	2864	3049	3209
55°	2721	2875	3030
60°	2540	2678	2836
65°	2318	2423	2563
70°	2030	2116	2202
75°	1731	1769	1845
80°	1389	1418	1446
85°	1016	960	905



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.0	3.6
10°-20°	355.9	10.3
20°-30°	538.0	15.6
30°-40°	639.0	18.5
40°-50°	641.5	18.6
50°-60°	548.0	15.9
60°-70°	377.5	11.0
70°-80°	183.1	5.3
80°-90°	40.0	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°	1017.8	29.5
0°-40°	1656.9	48.1
0°-60°	2846.4	82.6
0°-90°	3447.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3447.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1310	1310	1310	1310	1310	
5°	1299	1299	1304	1308	1312	123
15°	1239	1244	1260	1277	1286	349
25°	1127	1136	1169	1200	1211	519
35°	972	986	1023	1061	1074	607
45°	787	798	832	867	878	606
55°	580	589	613	638	646	518
65°	364	364	380	397	402	361
75°	166	163	170	174	178	179
85°	33	33	31	29	29	40
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1309.9	1309.9	1309.9	1309.9	1309.9
2.5°	1304.5	1304.5	1306.3	1311.8	1313.6
5°	1299.0	1299.0	1304.5	1308.1	1311.8
7.5°	1289.8	1291.6	1297.1	1304.5	1306.3
10°	1277.0	1278.8	1288.0	1297.1	1302.6
12.5°	1260.5	1264.2	1275.2	1289.8	1295.3
15°	1238.6	1244.1	1260.5	1277.0	1286.2
17.5°	1214.8	1222.1	1240.4	1264.2	1273.3
20°	1187.4	1196.5	1220.3	1245.9	1256.9
22.5°	1159.9	1167.2	1194.7	1224.0	1236.8
25°	1127.0	1136.1	1169.1	1200.2	1211.1
27.5°	1090.4	1103.2	1138.0	1170.9	1181.9
30°	1053.8	1064.8	1101.4	1138.0	1150.8
32.5°	1013.6	1024.5	1064.8	1101.4	1116.0
35°	971.5	986.1	1022.7	1061.1	1073.9
37.5°	925.7	942.2	980.6	1013.6	1030.0
40°	880.0	894.6	933.1	967.8	980.6
42.5°	834.3	847.1	883.7	920.3	931.2
45°	786.7	797.7	832.4	867.2	878.2
47.5°	735.5	748.3	781.2	810.5	823.3
50°	684.2	697.0	728.2	755.6	766.6
52.5°	634.8	642.2	671.4	697.0	709.9
55°	580.0	589.1	612.9	638.5	645.8
57.5°	526.9	532.4	556.2	578.1	589.1
60°	472.0	475.7	497.6	514.1	526.9
62.5°	420.8	420.8	437.3	455.6	462.9
65°	364.1	364.1	380.5	397.0	402.5
67.5°	309.2	312.8	323.8	336.6	340.3
70°	258.0	258.0	268.9	278.1	279.9
72.5°	212.2	210.4	215.9	223.2	226.9
75°	166.5	162.8	170.1	173.8	177.5
77.5°	126.2	124.4	128.1	131.7	131.7
80°	89.6	87.8	91.5	91.5	93.3
82.5°	58.5	60.4	60.4	58.5	56.7
85°	32.9	32.9	31.1	29.3	29.3
87.5°	11.0	11.0	11.0	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)