

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: P297043

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297043  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L82765-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2961.0 lumens  
Efficiency: N/A  
Efficacy: 137.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

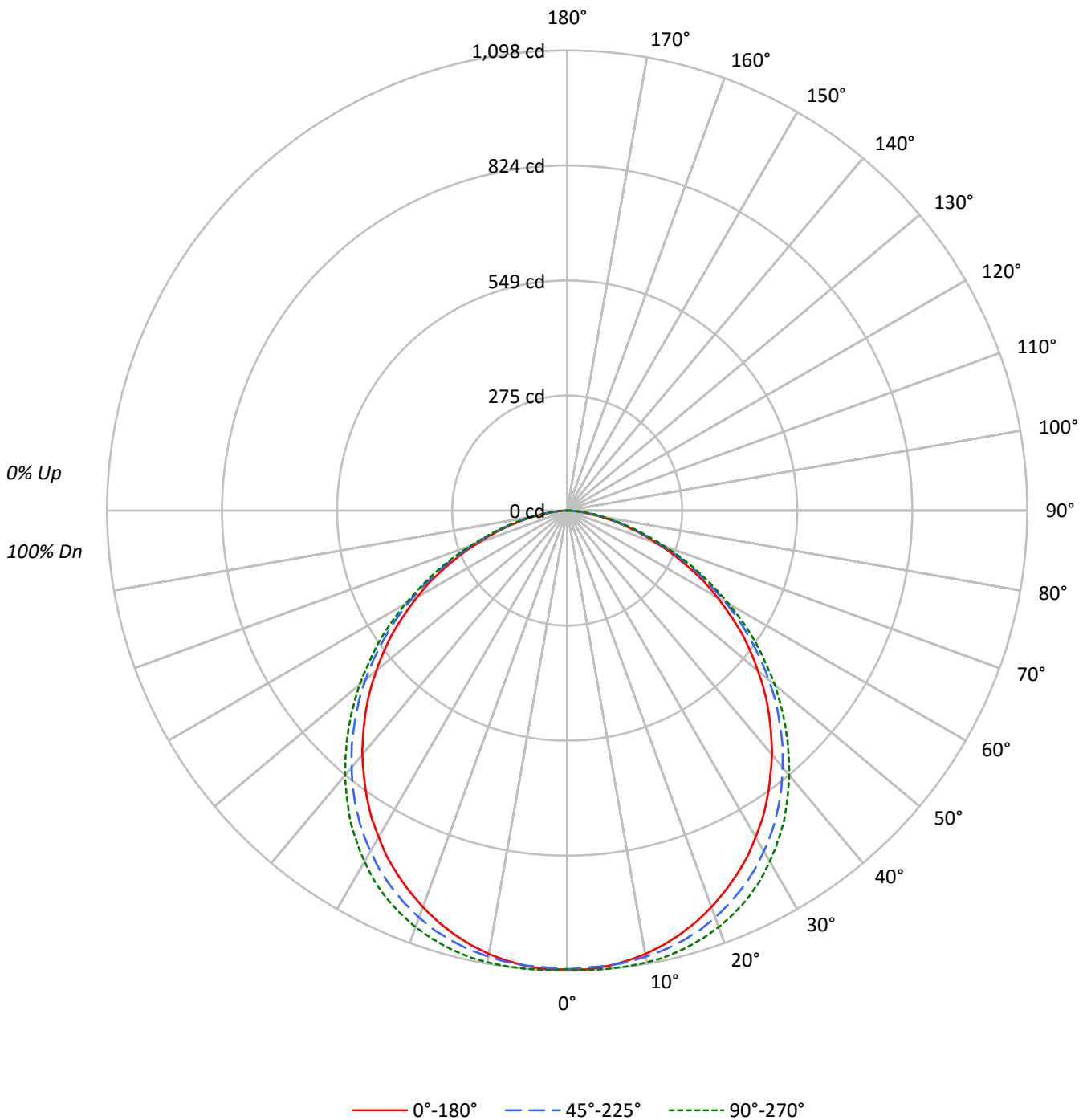
Input Watts (W): 21.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	47	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

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

	0°	45°	90°
0°	1473	1473	1473
5°	1474	1473	1483
10°	1468	1477	1495
15°	1457	1480	1507
20°	1441	1479	1514
25°	1422	1472	1515
30°	1397	1458	1503
35°	1369	1437	1483
40°	1336	1405	1447
45°	1294	1364	1405
50°	1243	1314	1354
55°	1189	1249	1289
60°	1113	1170	1199
65°	1017	1070	1097
70°	893	939	964
75°	755	794	821
80°	600	658	674
85°	409	491	475



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.0	3.5
10°-20°	300.3	10.1
20°-30°	456.3	15.4
30°-40°	544.5	18.4
40°-50°	549.9	18.6
50°-60°	473.8	16.0
60°-70°	330.3	11.2
70°-80°	163.7	5.5
80°-90°	38.2	1.3
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°	860.6	29.1
0°-40°	1405.1	47.5
0°-60°	2428.8	82.0
0°-90°	2961.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2961.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1095	1095	1095	1095	1095	
5°	1091	1090	1090	1096	1098	104
15°	1046	1051	1063	1077	1082	295
25°	958	970	992	1012	1020	441
35°	834	848	875	895	903	521
45°	680	695	717	734	738	524
55°	507	518	532	545	549	452
65°	319	326	336	339	345	317
75°	145	147	153	156	158	157
85°	26	32	32	30	31	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1094.6	1094.6	1094.6	1094.6	1094.6
2.5°	1095.7	1093.6	1091.4	1095.7	1097.8
5°	1091.4	1090.4	1090.4	1095.7	1097.8
7.5°	1084.0	1084.0	1087.2	1094.6	1096.7
10°	1074.5	1076.6	1080.8	1091.4	1094.6
12.5°	1061.7	1066.0	1073.4	1086.1	1090.4
15°	1045.8	1051.1	1062.8	1076.6	1081.9
17.5°	1027.8	1035.2	1050.1	1066.0	1071.3
20°	1006.6	1016.1	1033.1	1051.1	1057.5
22.5°	983.2	994.9	1014.0	1033.1	1040.5
25°	957.8	970.5	991.7	1011.9	1020.4
27.5°	931.3	944.0	967.3	987.5	996.0
30°	899.5	914.3	938.7	959.9	967.3
32.5°	868.7	883.5	909.0	928.1	935.5
35°	833.7	847.5	875.1	895.2	902.6
37.5°	796.6	812.5	839.0	857.0	863.4
40°	760.5	774.3	799.8	817.8	824.1
42.5°	720.2	735.0	760.5	776.4	781.7
45°	679.9	694.7	717.0	734.0	738.2
47.5°	638.5	652.3	674.6	688.4	692.6
50°	594.0	606.7	627.9	641.7	647.0
52.5°	551.6	563.2	581.3	592.9	596.1
55°	507.0	517.6	532.5	545.2	549.4
57.5°	459.3	470.9	484.7	495.3	498.5
60°	413.7	423.2	434.9	444.4	445.5
62.5°	369.1	373.4	384.0	392.5	393.5
65°	319.3	325.6	336.2	339.4	344.7
67.5°	273.7	277.9	286.4	290.6	294.9
70°	227.0	230.2	238.7	244.0	245.0
72.5°	186.7	187.7	194.1	198.3	199.4
75°	145.3	147.4	152.7	155.9	158.0
77.5°	110.3	112.4	116.7	118.8	118.8
80°	77.4	80.6	84.9	85.9	87.0
82.5°	49.9	54.1	57.3	58.3	56.2
85°	26.5	31.8	31.8	29.7	30.8
87.5°	9.5	11.7	12.7	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)