

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: P296764

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296764  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2996.0 lumens  
Efficiency: N/A  
Efficacy: 138.1 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

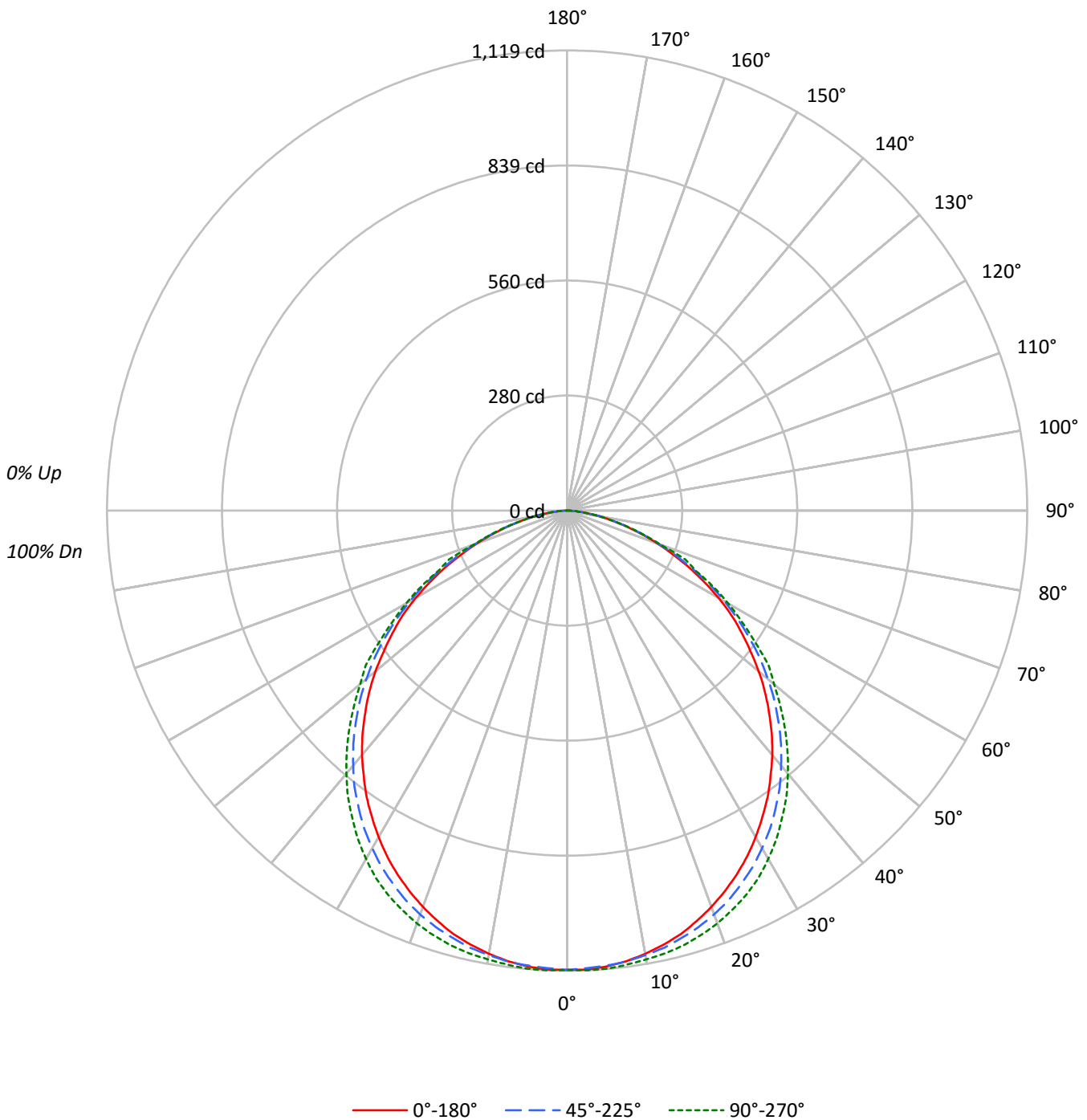
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P296764

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5000K

### Luminous Intensity Polar Plot





TEST NUMBER: P296764

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5000K

**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	94	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	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	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	30	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°	1503	1503	1503
5°	1503	1500	1510
10°	1495	1499	1514
15°	1485	1499	1524
20°	1468	1496	1530
25°	1449	1487	1530
30°	1425	1473	1520
35°	1397	1451	1497
40°	1363	1422	1467
45°	1321	1383	1426
50°	1274	1334	1375
55°	1215	1271	1309
60°	1146	1189	1218
65°	1040	1074	1095
70°	913	935	947
75°	771	782	788
80°	616	625	608
85°	415	431	415



TEST NUMBER: P296764

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.8	3.5
10°-20°	304.4	10.2
20°-30°	461.8	15.4
30°-40°	551.4	18.4
40°-50°	558.2	18.6
50°-60°	482.5	16.1
60°-70°	334.4	11.2
70°-80°	161.8	5.4
80°-90°	35.6	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°	872.1	29.1
0°-40°	1423.4	47.5
0°-60°	2464.2	82.2
0°-90°	2996.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2996.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1113	1112	1110	1116	1118	106
15°	1066	1068	1076	1089	1094	301
25°	976	982	1002	1022	1031	450
35°	850	858	884	906	912	531
45°	694	704	727	745	749	536
55°	518	524	542	564	558	463
65°	327	330	338	343	344	323
75°	148	149	150	149	152	159
85°	27	29	28	27	27	35
90°	0	0	0	0	0	



TEST NUMBER: P296764

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1116.9	1115.8	1113.7	1116.9	1119.0
5°	1112.6	1111.5	1110.4	1115.8	1118.0
7.5°	1105.1	1105.1	1106.1	1111.5	1113.7
10°	1094.3	1095.4	1097.5	1106.1	1108.3
12.5°	1081.4	1083.6	1088.9	1098.6	1102.9
15°	1066.4	1068.5	1076.0	1088.9	1094.3
17.5°	1047.0	1051.3	1062.1	1077.1	1082.5
20°	1025.5	1030.9	1044.9	1062.1	1068.5
22.5°	1001.9	1007.2	1025.5	1043.8	1050.2
25°	976.1	982.5	1001.9	1022.3	1030.9
27.5°	948.1	955.6	977.1	998.6	1007.2
30°	916.9	925.5	948.1	970.7	978.2
32.5°	883.6	892.2	918.0	939.5	947.0
35°	850.3	857.8	883.6	906.2	911.6
37.5°	812.7	821.3	849.2	868.6	876.1
40°	776.1	784.7	809.4	828.8	835.2
42.5°	736.4	744.9	769.7	787.9	793.3
45°	694.4	704.1	726.7	744.9	749.2
47.5°	652.5	660.0	683.7	699.8	703.0
50°	608.4	616.0	637.5	653.6	656.8
52.5°	562.2	574.0	591.2	603.1	617.0
55°	518.1	523.5	541.8	564.4	557.9
57.5°	474.1	477.3	492.3	502.0	504.2
60°	425.7	430.0	441.8	447.2	452.6
62.5°	375.2	378.4	392.4	397.7	399.9
65°	326.8	330.0	337.5	342.9	344.0
67.5°	277.3	280.6	287.0	291.3	310.7
70°	232.2	234.3	237.6	246.2	240.8
72.5°	189.2	190.3	193.5	193.5	194.6
75°	148.3	149.4	150.5	149.4	151.6
77.5°	110.7	112.9	113.9	112.9	111.8
80°	79.5	81.7	80.6	78.5	78.5
82.5°	51.6	52.7	51.6	50.5	50.5
85°	26.9	29.0	27.9	26.9	26.9
87.5°	9.7	10.7	11.8	12.9	12.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)