

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: P297040

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297040  
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-3000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2752.0 lumens  
Efficiency: N/A  
Efficacy: 131.0 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

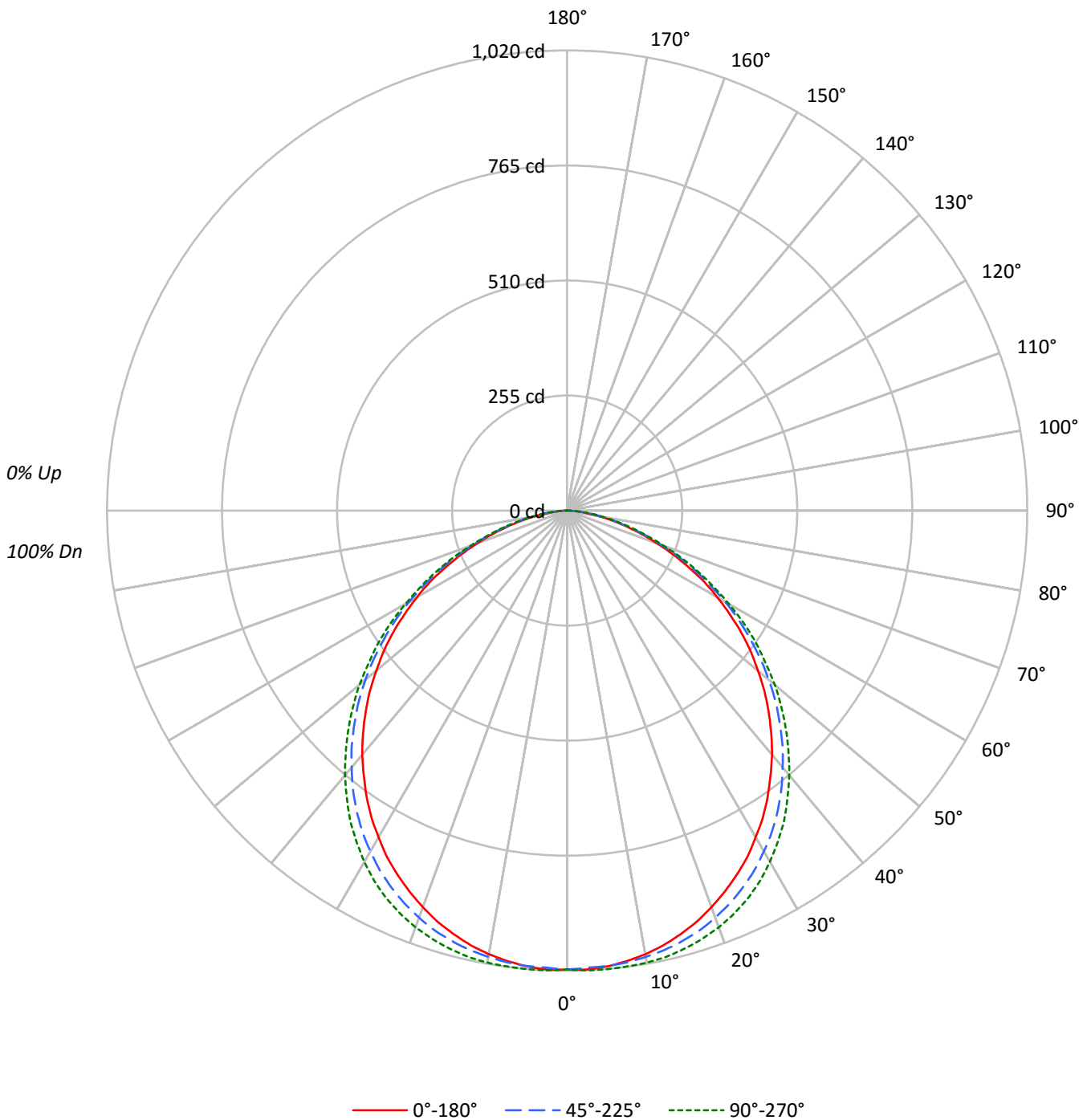
Input Watts (W): 21  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1369	1369	1369
5°	1370	1369	1378
10°	1364	1372	1390
15°	1354	1376	1401
20°	1339	1375	1407
25°	1322	1368	1408
30°	1299	1355	1397
35°	1273	1336	1378
40°	1241	1306	1345
45°	1202	1268	1306
50°	1156	1222	1259
55°	1105	1161	1198
60°	1035	1088	1114
65°	945	995	1020
70°	830	873	896
75°	702	738	764
80°	558	611	626
85°	380	457	442



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	96.7	3.5
10°-20°	279.1	10.1
20°-30°	424.1	15.4
30°-40°	506.1	18.4
40°-50°	511.1	18.6
50°-60°	440.4	16.0
60°-70°	307.0	11.2
70°-80°	152.1	5.5
80°-90°	35.5	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°	799.9	29.1
0°-40°	1305.9	47.5
0°-60°	2257.4	82.0
0°-90°	2752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2752.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1017	1017	1017	1017	1017	
5°	1014	1013	1013	1018	1020	96
15°	972	977	988	1001	1006	274
25°	890	902	922	940	948	410
35°	775	788	813	832	839	484
45°	632	646	666	682	686	487
55°	471	481	495	507	511	420
65°	297	303	312	316	320	295
75°	135	137	142	145	147	146
85°	25	30	30	28	29	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1017.4	1017.4	1017.4	1017.4	1017.4
2.5°	1018.3	1016.4	1014.4	1018.3	1020.3
5°	1014.4	1013.4	1013.4	1018.3	1020.3
7.5°	1007.5	1007.5	1010.5	1017.4	1019.3
10°	998.6	1000.6	1004.5	1014.4	1017.4
12.5°	986.8	990.7	997.6	1009.5	1013.4
15°	972.0	976.9	987.8	1000.6	1005.5
17.5°	955.3	962.2	976.0	990.7	995.7
20°	935.5	944.4	960.2	976.9	982.9
22.5°	913.8	924.7	942.4	960.2	967.1
25°	890.2	902.0	921.7	940.5	948.3
27.5°	865.5	877.4	899.1	917.8	925.7
30°	836.0	849.8	872.4	892.2	899.1
32.5°	807.4	821.2	844.8	862.6	869.5
35°	774.8	787.7	813.3	832.0	838.9
37.5°	740.3	755.1	779.8	796.5	802.4
40°	706.8	719.6	743.3	760.1	766.0
42.5°	669.4	683.2	706.8	721.6	726.5
45°	631.9	645.7	666.4	682.2	686.1
47.5°	593.5	606.3	627.0	639.8	643.7
50°	552.1	563.9	583.6	596.4	601.3
52.5°	512.6	523.5	540.2	551.1	554.0
55°	471.2	481.1	494.9	506.7	510.6
57.5°	426.9	437.7	450.5	460.4	463.3
60°	384.5	393.3	404.2	413.1	414.0
62.5°	343.1	347.0	356.9	364.7	365.7
65°	296.7	302.6	312.5	315.5	320.4
67.5°	254.3	258.3	266.2	270.1	274.1
70°	211.0	213.9	221.8	226.7	227.7
72.5°	173.5	174.5	180.4	184.3	185.3
75°	135.1	137.0	142.0	144.9	146.9
77.5°	102.5	104.5	108.4	110.4	110.4
80°	72.0	74.9	78.9	79.9	80.8
82.5°	46.3	50.3	53.2	54.2	52.2
85°	24.6	29.6	29.6	27.6	28.6
87.5°	8.9	10.8	11.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)