

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: P296851

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296851  
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-31L93050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2671.0 lumens  
Efficiency: N/A  
Efficacy: 122.5 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

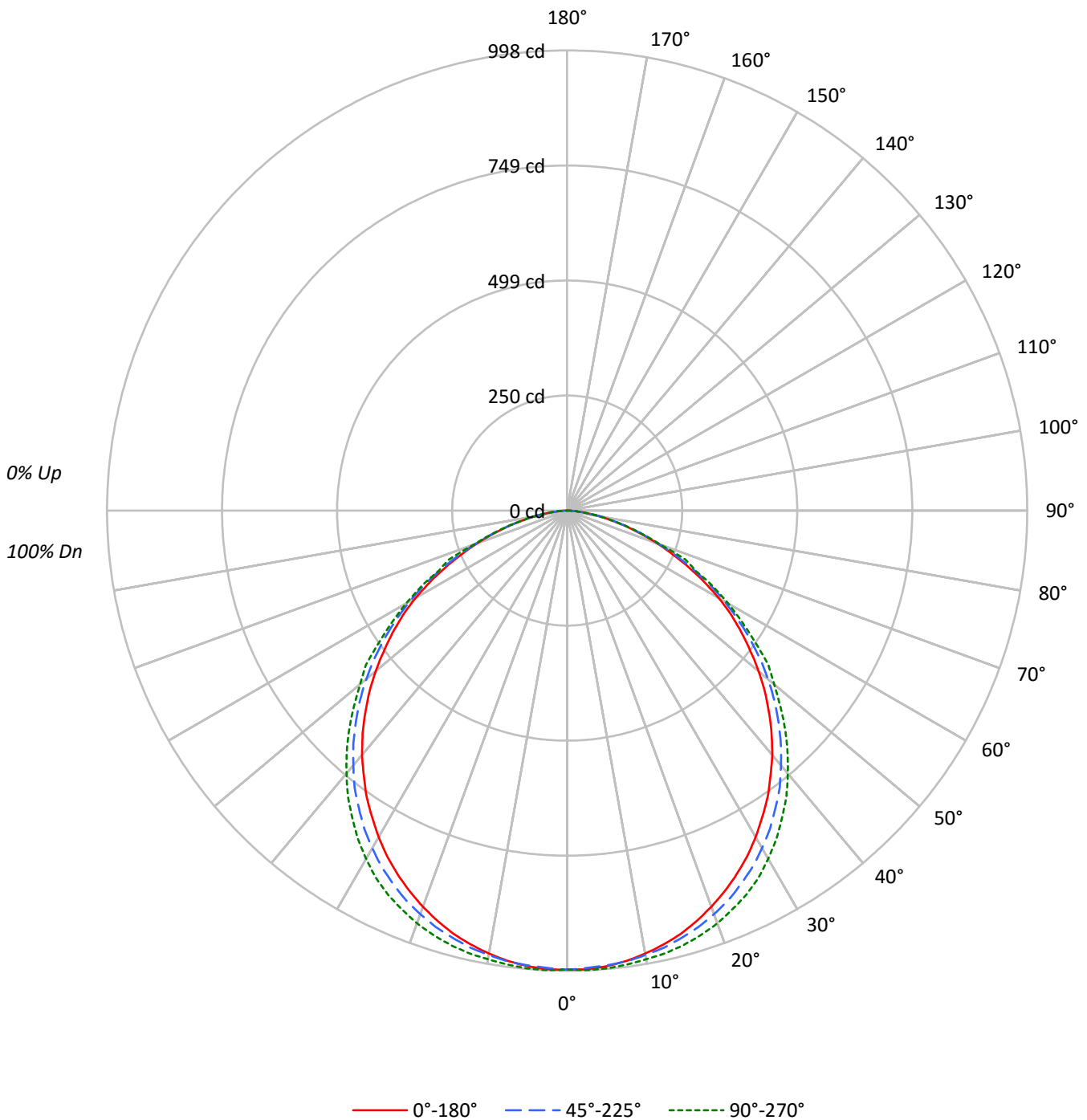
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1340	1340	1340
5°	1340	1337	1346
10°	1333	1337	1350
15°	1324	1336	1359
20°	1309	1334	1364
25°	1292	1326	1364
30°	1270	1313	1355
35°	1245	1294	1335
40°	1215	1267	1308
45°	1178	1233	1271
50°	1135	1190	1226
55°	1084	1133	1167
60°	1021	1060	1086
65°	927	958	976
70°	814	833	845
75°	688	698	702
80°	549	557	542
85°	371	384	371



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.4	3.5
10°-20°	271.4	10.2
20°-30°	411.7	15.4
30°-40°	491.6	18.4
40°-50°	497.7	18.6
50°-60°	430.2	16.1
60°-70°	298.1	11.2
70°-80°	144.3	5.4
80°-90°	31.7	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°	777.5	29.1
0°-40°	1269.1	47.5
0°-60°	2196.9	82.2
0°-90°	2671.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2671.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	996	996	996	996	996	
5°	992	991	990	995	997	94
15°	951	953	959	971	976	268
25°	870	876	893	911	919	401
35°	758	765	788	808	813	474
45°	619	628	648	664	668	478
55°	462	467	483	503	497	413
65°	291	294	301	306	307	288
75°	132	133	134	133	135	142
85°	24	26	25	24	24	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	995.7	995.7	995.7	995.7	995.7
2.5°	995.7	994.8	992.9	995.7	997.6
5°	991.9	990.9	990.0	994.8	996.7
7.5°	985.2	985.2	986.1	990.9	992.9
10°	975.6	976.6	978.5	986.1	988.1
12.5°	964.1	966.0	970.8	979.4	983.3
15°	950.7	952.6	959.3	970.8	975.6
17.5°	933.4	937.3	946.9	960.3	965.1
20°	914.3	919.1	931.5	946.9	952.6
22.5°	893.2	898.0	914.3	930.6	936.3
25°	870.2	875.9	893.2	911.4	919.1
27.5°	845.3	852.0	871.1	890.3	898.0
30°	817.5	825.1	845.3	865.4	872.1
32.5°	787.8	795.4	818.4	837.6	844.3
35°	758.1	764.8	787.8	807.9	812.7
37.5°	724.5	732.2	757.1	774.3	781.1
40°	691.9	699.6	721.6	738.9	744.6
42.5°	656.5	664.1	686.2	702.5	707.3
45°	619.1	627.7	647.8	664.1	668.0
47.5°	581.7	588.4	609.5	623.9	626.8
50°	542.4	549.1	568.3	582.7	585.6
52.5°	501.2	511.8	527.1	537.6	550.1
55°	461.9	466.7	483.0	503.1	497.4
57.5°	422.6	425.5	438.9	447.6	449.5
60°	379.5	383.3	393.9	398.7	403.5
62.5°	334.5	337.3	349.8	354.6	356.5
65°	291.3	294.2	300.9	305.7	306.7
67.5°	247.3	250.1	255.9	259.7	277.0
70°	207.0	208.9	211.8	219.5	214.7
72.5°	168.7	169.6	172.5	172.5	173.5
75°	132.3	133.2	134.2	133.2	135.1
77.5°	98.7	100.6	101.6	100.6	99.7
80°	70.9	72.8	71.9	70.0	70.0
82.5°	46.0	47.0	46.0	45.0	45.0
85°	24.0	25.9	24.9	24.0	24.0
87.5°	8.6	9.6	10.5	11.5	11.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)