

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: P297131

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297131  
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-31L93050-LD5-UNV-24-T1-W2A-4000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2676.0 lumens  
Efficiency: N/A  
Efficacy: 122.8 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

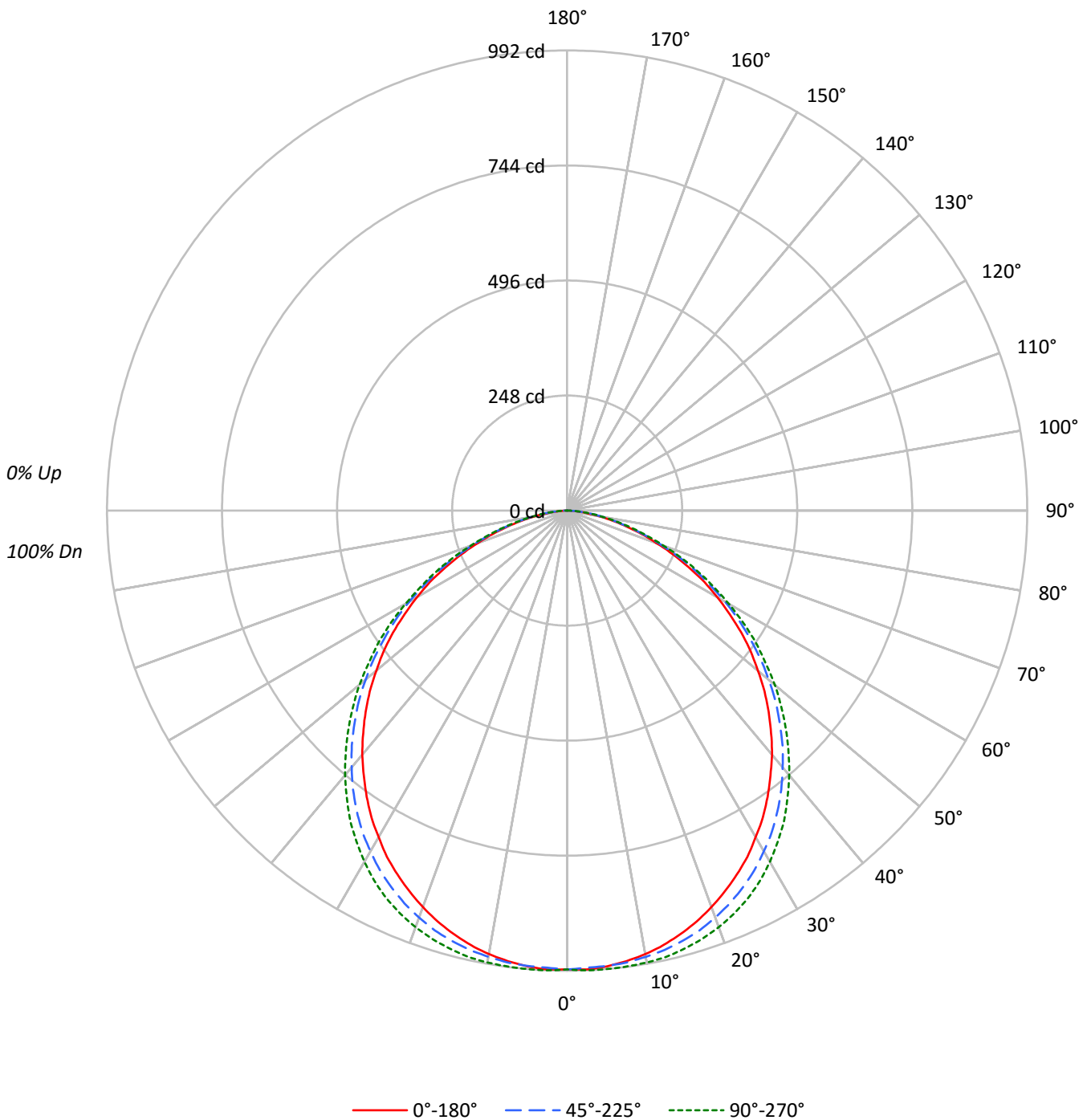
Input Watts (W): 21.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1331	1331	1331
5°	1332	1331	1340
10°	1327	1335	1352
15°	1317	1338	1362
20°	1303	1337	1368
25°	1285	1331	1369
30°	1263	1318	1358
35°	1237	1299	1340
40°	1207	1270	1308
45°	1169	1233	1270
50°	1124	1188	1224
55°	1075	1129	1165
60°	1006	1058	1083
65°	918	968	992
70°	807	849	871
75°	683	717	742
80°	542	594	609
85°	371	445	429



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	94.0	3.5
10°-20°	271.4	10.1
20°-30°	412.4	15.4
30°-40°	492.1	18.4
40°-50°	497.0	18.6
50°-60°	428.2	16.0
60°-70°	298.5	11.2
70°-80°	147.9	5.5
80°-90°	34.5	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°	777.8	29.1
0°-40°	1269.9	47.5
0°-60°	2195.1	82.0
0°-90°	2676.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2676.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	989	989	989	989	989	
5°	986	985	985	990	992	94
15°	945	950	960	973	978	267
25°	866	877	896	914	922	399
35°	753	766	791	809	816	471
45°	614	628	648	663	667	474
55°	458	468	481	493	496	408
65°	288	294	304	307	312	286
75°	131	133	138	141	143	142
85°	24	29	29	27	28	31
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	989.3	989.3	989.3	989.3	989.3
2.5°	990.2	988.3	986.4	990.2	992.1
5°	986.4	985.4	985.4	990.2	992.1
7.5°	979.7	979.7	982.6	989.3	991.2
10°	971.0	973.0	976.8	986.4	989.3
12.5°	959.5	963.4	970.1	981.6	985.4
15°	945.2	950.0	960.5	973.0	977.8
17.5°	928.9	935.6	949.0	963.4	968.2
20°	909.7	918.3	933.7	950.0	955.7
22.5°	888.6	899.2	916.4	933.7	940.4
25°	865.6	877.1	896.3	914.5	922.2
27.5°	841.6	853.1	874.2	892.4	900.1
30°	812.9	826.3	848.3	867.5	874.2
32.5°	785.1	798.5	821.5	838.8	845.5
35°	753.4	765.9	790.8	809.0	815.8
37.5°	719.9	734.3	758.2	774.5	780.3
40°	687.3	699.8	722.8	739.1	744.8
42.5°	650.9	664.3	687.3	701.7	706.5
45°	614.5	627.9	648.0	663.3	667.2
47.5°	577.1	589.5	609.7	622.1	626.0
50°	536.8	548.3	567.5	579.9	584.7
52.5°	498.5	509.0	525.3	535.8	538.7
55°	458.2	467.8	481.2	492.7	496.5
57.5°	415.1	425.6	438.1	447.7	450.5
60°	373.8	382.5	393.0	401.6	402.6
62.5°	333.6	337.4	347.0	354.7	355.6
65°	288.5	294.3	303.9	306.7	311.5
67.5°	247.3	251.1	258.8	262.7	266.5
70°	205.1	208.0	215.7	220.5	221.4
72.5°	168.7	169.7	175.4	179.3	180.2
75°	131.3	133.2	138.0	140.9	142.8
77.5°	99.7	101.6	105.4	107.4	107.4
80°	70.0	72.9	76.7	77.6	78.6
82.5°	45.1	48.9	51.8	52.7	50.8
85°	24.0	28.8	28.8	26.8	27.8
87.5°	8.6	10.5	11.5	12.5	12.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)