

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: P297701

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297701  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L83050-LD5-UNV-14-T1-W2A-4000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3105.0 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

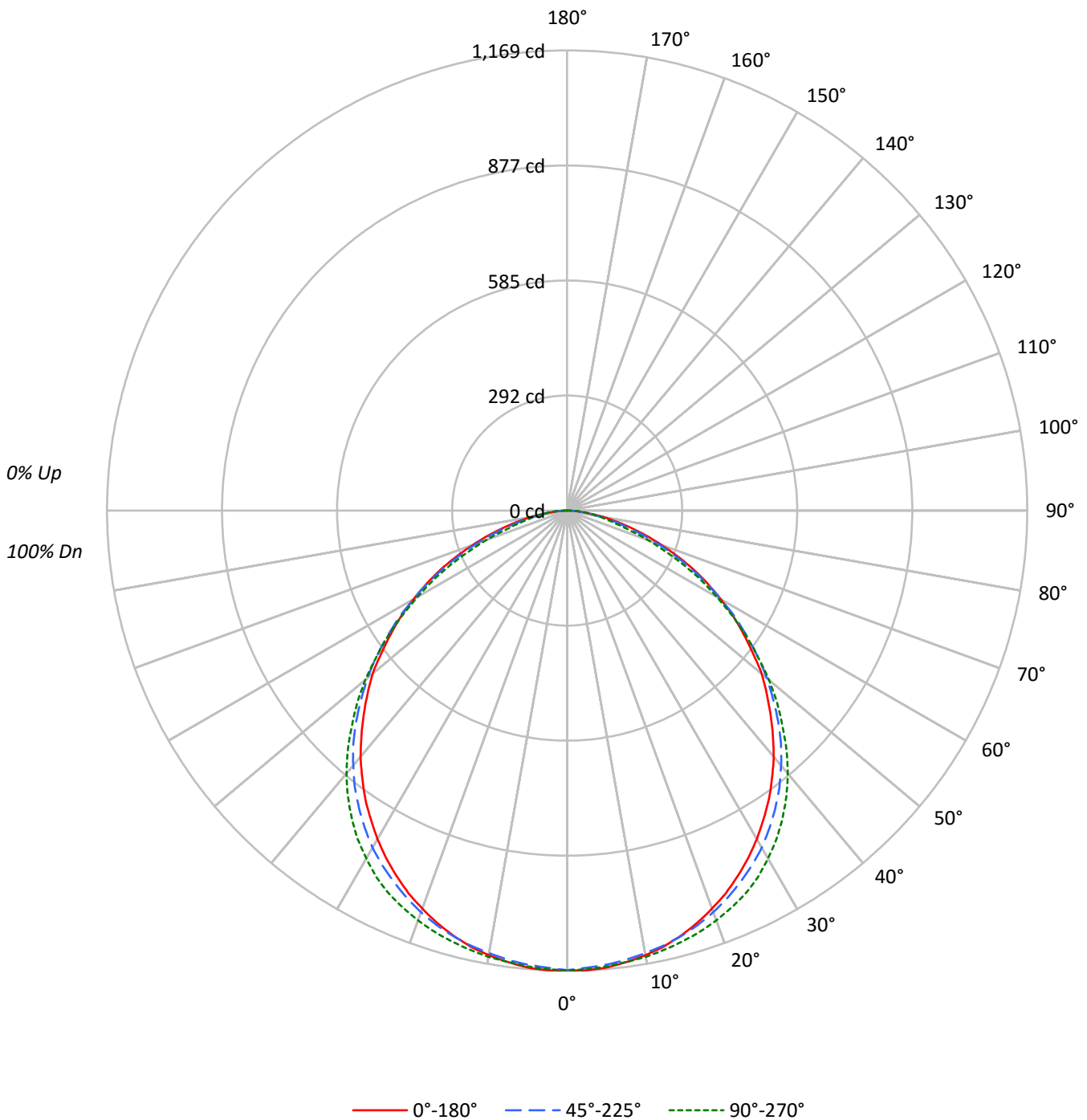
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	3142	3142	3142
5°	3147	3128	3139
10°	3134	3119	3145
15°	3114	3118	3156
20°	3082	3109	3173
25°	3043	3092	3187
30°	2994	3072	3171
35°	2938	3029	3134
40°	2868	2970	3063
45°	2780	2885	2943
50°	2703	2773	2802
55°	2567	2619	2606
60°	2429	2429	2362
65°	2255	2201	2078
70°	1999	1912	1726
75°	1732	1573	1328
80°	1420	1226	1206
85°	942	1115	1201



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	3.6
10°-20°	316.9	10.2
20°-30°	481.7	15.5
30°-40°	576.7	18.6
40°-50°	581.7	18.7
50°-60°	495.5	16.0
60°-70°	338.8	10.9
70°-80°	162.2	5.2
80°-90°	41.1	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°	909.0	29.3
0°-40°	1485.7	47.8
0°-60°	2562.9	82.5
0°-90°	3105.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3105.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1168	1168	1168	1168	1168	
5°	1165	1164	1158	1164	1162	111
15°	1118	1115	1119	1132	1133	315
25°	1025	1026	1041	1065	1073	472
35°	894	897	922	948	954	559
45°	730	736	758	773	773	564
55°	547	550	558	560	555	490
65°	354	347	346	333	326	349
75°	167	164	151	132	128	178
85°	30	33	36	38	39	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1169.1	1167.7	1162.2	1167.7	1166.3
5°	1165.0	1163.6	1158.0	1163.6	1162.2
7.5°	1156.6	1155.2	1151.1	1156.6	1156.6
10°	1146.9	1144.1	1141.4	1149.7	1151.1
12.5°	1134.4	1131.6	1131.6	1141.4	1142.7
15°	1117.7	1115.0	1119.1	1131.6	1133.0
17.5°	1098.3	1096.9	1103.9	1119.1	1121.9
20°	1076.1	1074.7	1085.8	1103.9	1108.0
22.5°	1052.5	1052.5	1065.0	1085.8	1091.4
25°	1024.7	1026.1	1041.4	1065.0	1073.3
27.5°	995.6	998.3	1016.4	1042.8	1049.7
30°	963.6	967.8	988.6	1013.6	1020.6
32.5°	928.9	933.1	956.7	983.1	990.0
35°	894.2	897.0	922.0	948.3	953.9
37.5°	855.3	859.5	885.9	909.5	915.0
40°	816.4	820.6	845.6	867.8	872.0
42.5°	773.4	779.0	803.9	822.0	824.8
45°	730.4	735.9	758.1	773.4	773.4
47.5°	687.3	690.1	709.5	724.8	723.4
50°	645.7	644.3	662.3	669.3	669.3
52.5°	594.3	598.4	610.9	615.1	610.9
55°	547.1	549.8	558.2	559.6	555.4
57.5°	501.3	499.9	506.8	502.6	497.1
60°	451.3	451.3	451.3	447.1	438.8
62.5°	402.7	399.9	398.5	388.8	384.6
65°	354.1	347.1	345.7	333.2	326.3
67.5°	302.7	299.9	293.0	280.5	268.0
70°	254.1	251.3	243.0	227.7	219.4
72.5°	209.7	206.9	195.8	177.7	166.6
75°	166.6	163.8	151.3	131.9	127.7
77.5°	126.4	125.0	112.5	102.7	101.4
80°	91.6	90.3	79.1	79.1	77.8
82.5°	58.3	58.3	55.5	56.9	58.3
85°	30.5	33.3	36.1	37.5	38.9
87.5°	9.7	15.3	18.1	19.4	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)