

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: P297769

Luminaire Tested: **D3X-WG-31L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297769  
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-31L93050-LD5-UNV-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2301.0 lumens  
Efficiency: N/A  
Efficacy: 79.6 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

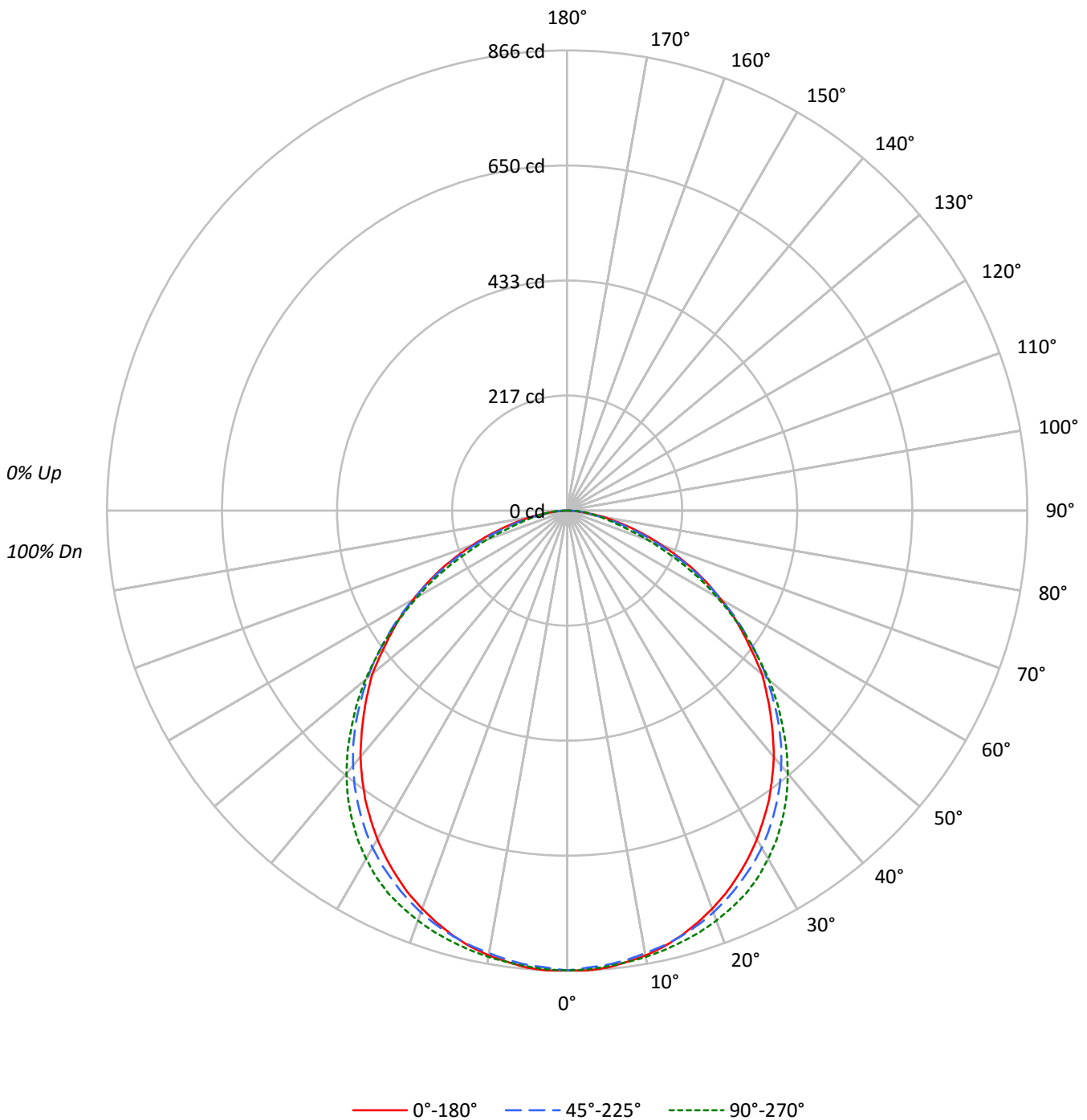
Input Watts (W): 28.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2329	2329	2329
5°	2332	2318	2326
10°	2322	2311	2331
15°	2308	2310	2339
20°	2284	2304	2351
25°	2255	2291	2362
30°	2219	2276	2350
35°	2177	2244	2322
40°	2125	2201	2270
45°	2060	2138	2181
50°	2003	2055	2076
55°	1902	1940	1931
60°	1800	1800	1750
65°	1671	1631	1540
70°	1482	1417	1279
75°	1284	1167	985
80°	1052	910	893
85°	698	827	889



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	3.6
10°-20°	234.9	10.2
20°-30°	357.0	15.5
30°-40°	427.4	18.6
40°-50°	431.1	18.7
50°-60°	367.2	16.0
60°-70°	251.1	10.9
70°-80°	120.2	5.2
80°-90°	30.5	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°	673.6	29.3
0°-40°	1101.0	47.8
0°-60°	1899.2	82.5
0°-90°	2301.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2301.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	865	865	865	865	865	
5°	863	862	858	862	861	82
15°	828	826	829	839	840	234
25°	759	760	772	789	795	350
35°	663	665	683	703	707	414
45°	541	545	562	573	573	418
55°	405	408	414	415	412	363
65°	262	257	256	247	242	259
75°	124	121	112	98	95	132
85°	23	25	27	28	29	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	865.4	865.4	865.4	865.4	865.4
2.5°	866.4	865.4	861.2	865.4	864.3
5°	863.3	862.3	858.2	862.3	861.2
7.5°	857.1	856.1	853.0	857.1	857.1
10°	849.9	847.9	845.8	852.0	853.0
12.5°	840.7	838.6	838.6	845.8	846.8
15°	828.3	826.3	829.3	838.6	839.6
17.5°	813.9	812.9	818.0	829.3	831.4
20°	797.5	796.4	804.7	818.0	821.1
22.5°	780.0	780.0	789.2	804.7	808.8
25°	759.4	760.4	771.7	789.2	795.4
27.5°	737.8	739.8	753.2	772.8	777.9
30°	714.1	717.2	732.6	751.1	756.3
32.5°	688.4	691.5	709.0	728.5	733.7
35°	662.7	664.7	683.2	702.8	706.9
37.5°	633.8	636.9	656.5	674.0	678.1
40°	605.0	608.1	626.6	643.1	646.2
42.5°	573.1	577.3	595.8	609.1	611.2
45°	541.2	545.4	561.8	573.1	573.1
47.5°	509.3	511.4	525.8	537.1	536.1
50°	478.5	477.4	490.8	496.0	496.0
52.5°	440.4	443.5	452.7	455.8	452.7
55°	405.4	407.5	413.6	414.7	411.6
57.5°	371.5	370.4	375.6	372.5	368.4
60°	334.4	334.4	334.4	331.3	325.2
62.5°	298.4	296.3	295.3	288.1	285.0
65°	262.4	257.2	256.2	247.0	241.8
67.5°	224.3	222.3	217.1	207.9	198.6
70°	188.3	186.2	180.1	168.8	162.6
72.5°	155.4	153.3	145.1	131.7	123.5
75°	123.5	121.4	112.2	97.8	94.7
77.5°	93.6	92.6	83.3	76.1	75.1
80°	67.9	66.9	58.7	58.7	57.6
82.5°	43.2	43.2	41.2	42.2	43.2
85°	22.6	24.7	26.8	27.8	28.8
87.5°	7.2	11.3	13.4	14.4	13.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)