

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: P297735

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297735  
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-31L82765-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: 2952.0 lumens  
Efficiency: N/A  
Efficacy: 103.2 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

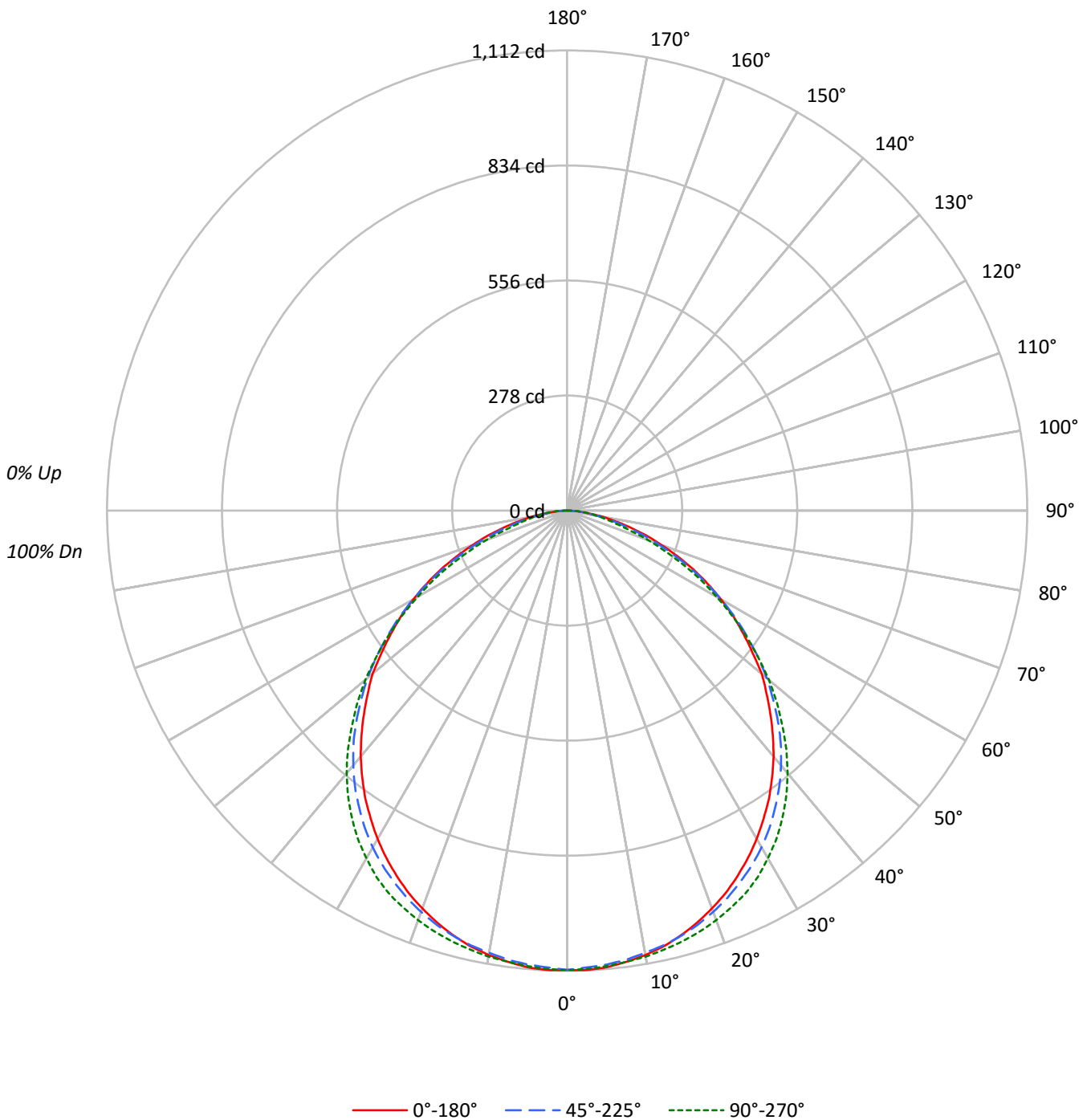
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2988	2988	2988
5°	2992	2974	2985
10°	2980	2965	2990
15°	2961	2964	3001
20°	2930	2956	3017
25°	2893	2940	3030
30°	2847	2921	3015
35°	2793	2879	2979
40°	2727	2824	2912
45°	2643	2743	2798
50°	2570	2636	2664
55°	2440	2490	2477
60°	2309	2309	2245
65°	2143	2093	1975
70°	1901	1817	1641
75°	1647	1496	1262
80°	1350	1165	1145
85°	895	1059	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.0	3.6
10°-20°	301.3	10.2
20°-30°	457.9	15.5
30°-40°	548.3	18.6
40°-50°	553.1	18.7
50°-60°	471.1	16.0
60°-70°	322.1	10.9
70°-80°	154.2	5.2
80°-90°	39.0	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°	864.2	29.3
0°-40°	1412.5	47.8
0°-60°	2436.6	82.5
0°-90°	2952.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2952.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1108	1106	1101	1106	1105	105
15°	1063	1060	1064	1076	1077	300
25°	974	976	990	1012	1020	449
35°	850	853	876	902	907	531
45°	694	700	721	735	735	536
55°	520	523	531	532	528	466
65°	337	330	329	317	310	332
75°	158	156	144	125	121	169
85°	29	32	34	36	37	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1111.5	1110.2	1104.9	1110.2	1108.9
5°	1107.6	1106.2	1101.0	1106.2	1104.9
7.5°	1099.6	1098.3	1094.4	1099.6	1099.6
10°	1090.4	1087.8	1085.1	1093.0	1094.4
12.5°	1078.5	1075.9	1075.9	1085.1	1086.4
15°	1062.7	1060.0	1064.0	1075.9	1077.2
17.5°	1044.2	1042.9	1049.5	1064.0	1066.6
20°	1023.1	1021.7	1032.3	1049.5	1053.4
22.5°	1000.6	1000.6	1012.5	1032.3	1037.6
25°	974.2	975.5	990.1	1012.5	1020.4
27.5°	946.5	949.1	966.3	991.4	998.0
30°	916.1	920.1	939.9	963.7	970.3
32.5°	883.1	887.1	909.5	934.6	941.2
35°	850.1	852.8	876.5	901.6	906.9
37.5°	813.2	817.1	842.2	864.7	869.9
40°	776.2	780.2	803.9	825.1	829.0
42.5°	735.3	740.6	764.3	781.5	784.1
45°	694.4	699.6	720.8	735.3	735.3
47.5°	653.4	656.1	674.6	689.1	687.8
50°	613.8	612.5	629.7	636.3	636.3
52.5°	565.0	569.0	580.8	584.8	580.8
55°	520.1	522.8	530.7	532.0	528.0
57.5°	476.6	475.2	481.8	477.9	472.6
60°	429.0	429.0	429.0	425.1	417.1
62.5°	382.8	380.2	378.9	369.6	365.7
65°	336.6	330.0	328.7	316.8	310.2
67.5°	287.8	285.1	278.5	266.7	254.8
70°	241.6	238.9	231.0	216.5	208.6
72.5°	199.3	196.7	186.1	169.0	158.4
75°	158.4	155.8	143.9	125.4	121.4
77.5°	120.1	118.8	106.9	97.7	96.4
80°	87.1	85.8	75.2	75.2	73.9
82.5°	55.4	55.4	52.8	54.1	55.4
85°	29.0	31.7	34.3	35.6	37.0
87.5°	9.2	14.5	17.2	18.5	17.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)