

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: P297635

Luminaire Tested: **D3X-WD-35L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297635  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-35L93050-LD5-UNV-14-T1-W2A-3500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2877.0 lumens  
Efficiency: N/A  
Efficacy: 84.1 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

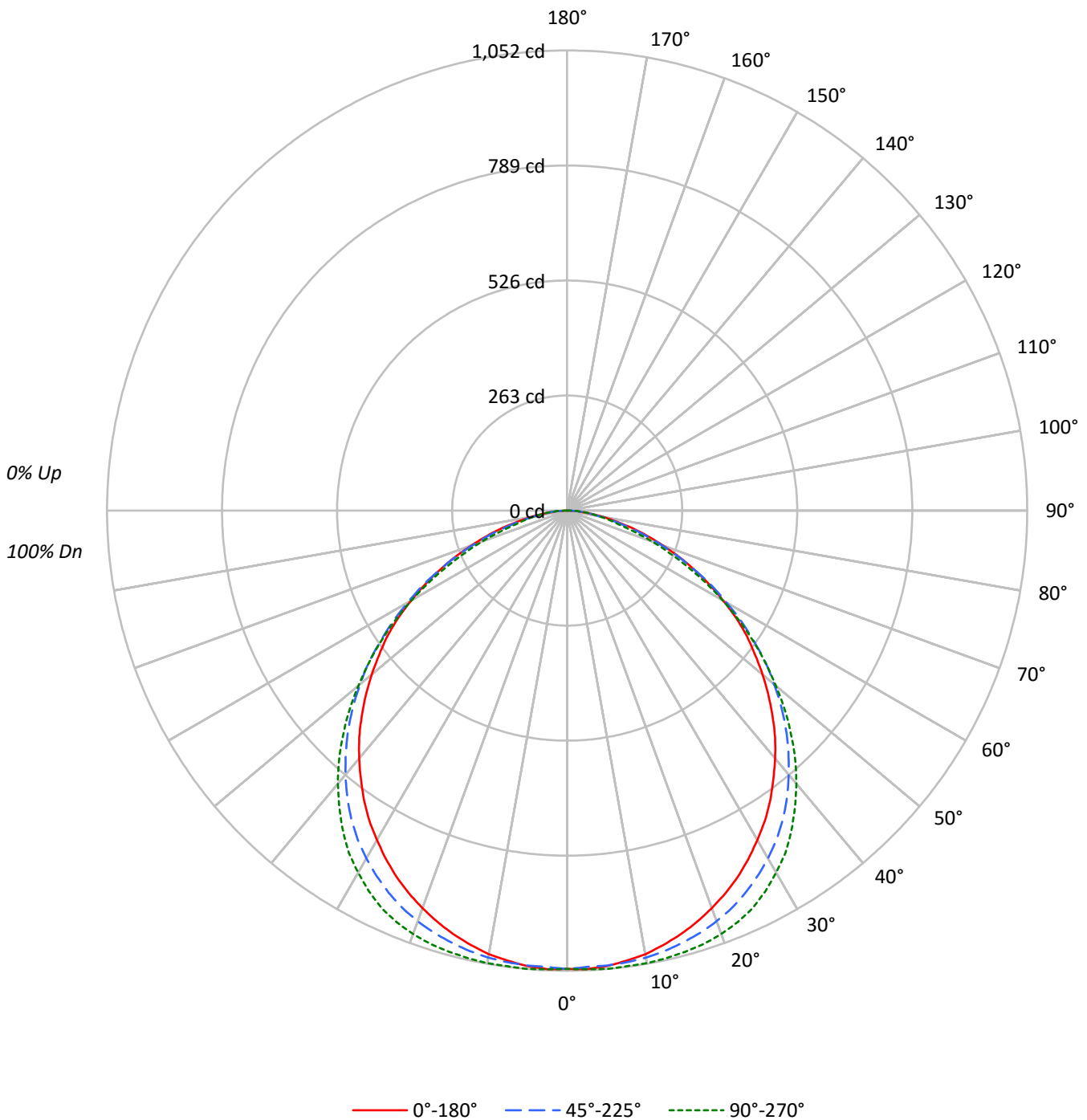
Input Watts (W): 34.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	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	27	38	32	27	37	31	27	25

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

	0°	45°	90°
0°	2820	2820	2820
5°	2824	2820	2841
10°	2814	2836	2870
15°	2794	2848	2909
20°	2769	2861	2950
25°	2742	2864	2978
30°	2701	2853	2969
35°	2658	2826	2936
40°	2598	2770	2865
45°	2527	2693	2756
50°	2441	2586	2608
55°	2356	2446	2434
60°	2218	2267	2212
65°	2045	2052	1938
70°	1828	1788	1627
75°	1589	1483	1255
80°	1274	1155	1155
85°	911	1071	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.7	3.5
10°-20°	289.3	10.1
20°-30°	444.2	15.4
30°-40°	534.9	18.6
40°-50°	540.6	18.8
50°-60°	461.1	16.0
60°-70°	315.6	11.0
70°-80°	152.3	5.3
80°-90°	39.3	1.4
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°	833.1	29.0
0°-40°	1368.1	47.6
0°-60°	2369.8	82.4
0°-90°	2877.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2877.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1048	1048	1048	1048	1048	
5°	1045	1045	1044	1050	1052	99
15°	1003	1011	1022	1040	1044	283
25°	923	938	964	993	1003	425
35°	809	827	860	887	894	506
45°	664	682	708	724	724	512
55°	502	511	521	524	519	447
65°	321	325	322	311	304	319
75°	153	153	143	126	121	162
85°	30	32	35	36	36	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1047.9	1047.9	1047.9	1047.9	1047.9
2.5°	1049.2	1047.9	1044.1	1049.2	1049.2
5°	1045.4	1045.4	1044.1	1050.5	1051.8
7.5°	1037.7	1040.2	1041.5	1049.2	1050.5
10°	1030.0	1032.5	1037.7	1047.9	1050.5
12.5°	1017.1	1022.3	1031.2	1045.4	1047.9
15°	1003.0	1010.7	1022.3	1040.2	1044.1
17.5°	986.3	996.6	1012.0	1032.5	1038.9
20°	967.0	978.6	999.1	1022.3	1030.0
22.5°	946.5	959.3	983.7	1010.7	1018.4
25°	923.4	937.5	964.5	992.7	1003.0
27.5°	897.7	913.1	942.6	972.2	981.2
30°	869.4	886.1	918.2	947.8	955.5
32.5°	841.2	857.9	891.3	919.5	928.5
35°	809.1	827.0	860.4	887.4	893.8
37.5°	774.4	792.4	825.8	852.7	855.3
40°	739.7	757.7	788.5	812.9	815.5
42.5°	703.8	720.5	748.7	769.3	771.8
45°	664.0	681.9	707.6	724.3	724.3
47.5°	624.1	642.1	664.0	675.5	675.5
50°	583.0	599.7	617.7	624.1	622.9
52.5°	541.9	557.4	572.8	574.1	571.5
55°	502.1	511.1	521.4	524.0	518.8
57.5°	458.5	466.2	472.6	468.7	464.9
60°	412.2	419.9	421.2	414.8	411.0
62.5°	367.3	373.7	373.7	363.4	357.0
65°	321.1	324.9	322.3	310.8	304.4
67.5°	277.4	280.0	274.8	263.3	253.0
70°	232.4	233.7	227.3	213.2	206.8
72.5°	191.4	192.6	184.9	168.2	160.5
75°	152.8	152.8	142.6	125.9	120.7
77.5°	114.3	118.1	106.6	97.6	97.6
80°	82.2	86.0	74.5	75.8	74.5
82.5°	53.9	57.8	53.9	53.9	53.9
85°	29.5	32.1	34.7	36.0	36.0
87.5°	9.0	15.4	16.7	18.0	20.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)