

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: P297779

Luminaire Tested: **D3X-WG-40L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297779  
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-40L93050-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: 2992.0 lumens  
Efficiency: N/A  
Efficacy: 74.1 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

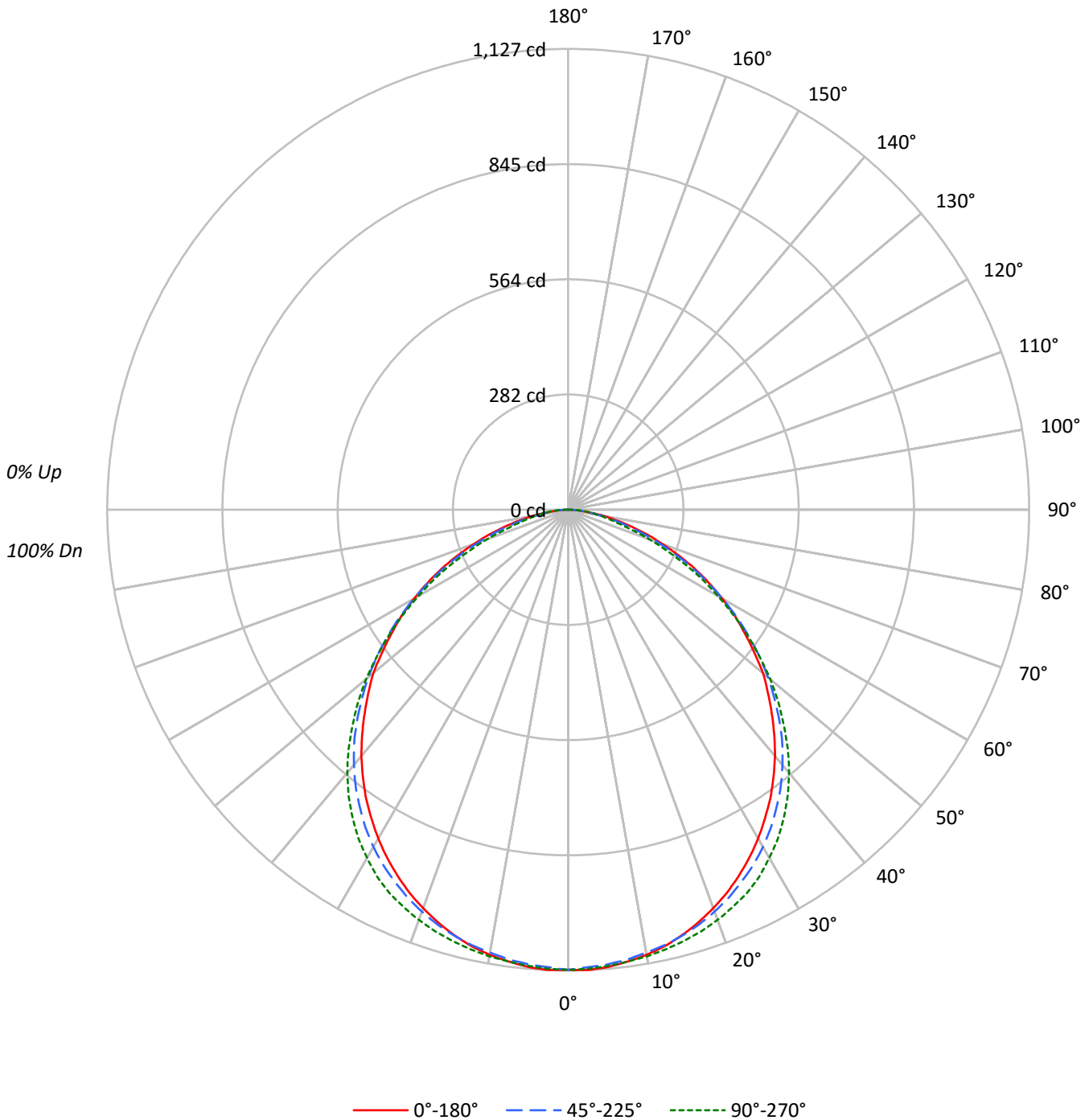
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3028	3028	3028
5°	3032	3014	3025
10°	3020	3005	3031
15°	3001	3004	3042
20°	2969	2996	3058
25°	2932	2980	3071
30°	2885	2960	3056
35°	2831	2918	3020
40°	2764	2862	2951
45°	2678	2780	2836
50°	2605	2672	2700
55°	2473	2524	2511
60°	2340	2340	2275
65°	2173	2122	2002
70°	1926	1842	1663
75°	1670	1516	1280
80°	1368	1182	1161
85°	908	1074	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.4	3.6
10°-20°	305.4	10.2
20°-30°	464.1	15.5
30°-40°	555.7	18.6
40°-50°	560.5	18.7
50°-60°	477.4	16.0
60°-70°	326.5	10.9
70°-80°	156.3	5.2
80°-90°	39.6	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°	875.9	29.3
0°-40°	1431.6	47.8
0°-60°	2469.6	82.5
0°-90°	2992.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2992.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1125	1125	1125	1125	1125	
5°	1123	1121	1116	1121	1120	107
15°	1077	1074	1078	1090	1092	304
25°	987	989	1004	1026	1034	455
35°	862	864	888	914	919	538
45°	704	709	730	745	745	543
55°	527	530	538	539	535	472
65°	341	334	333	321	314	336
75°	161	158	146	127	123	172
85°	29	32	35	36	38	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1125.2	1125.2	1125.2	1125.2	1125.2
2.5°	1126.6	1125.2	1119.9	1125.2	1123.9
5°	1122.6	1121.2	1115.9	1121.2	1119.9
7.5°	1114.5	1113.2	1109.2	1114.5	1114.5
10°	1105.2	1102.5	1099.8	1107.8	1109.2
12.5°	1093.1	1090.4	1090.4	1099.8	1101.2
15°	1077.1	1074.4	1078.4	1090.4	1091.8
17.5°	1058.3	1057.0	1063.7	1078.4	1081.1
20°	1036.9	1035.6	1046.3	1063.7	1067.7
22.5°	1014.2	1014.2	1026.2	1046.3	1051.6
25°	987.4	988.8	1003.5	1026.2	1034.3
27.5°	959.3	962.0	979.4	1004.8	1011.5
30°	928.6	932.6	952.6	976.7	983.4
32.5°	895.1	899.1	921.9	947.3	954.0
35°	861.7	864.3	888.4	913.8	919.2
37.5°	824.2	828.2	853.6	876.4	881.7
40°	786.7	790.7	814.8	836.2	840.2
42.5°	745.3	750.6	774.7	792.1	794.8
45°	703.8	709.1	730.5	745.3	745.3
47.5°	662.3	665.0	683.7	698.4	697.1
50°	622.2	620.8	638.2	644.9	644.9
52.5°	572.7	576.7	588.7	592.7	588.7
55°	527.2	529.8	537.9	539.2	535.2
57.5°	483.0	481.7	488.4	484.3	479.0
60°	434.8	434.8	434.8	430.8	422.8
62.5°	388.0	385.3	384.0	374.6	370.6
65°	341.2	334.5	333.2	321.1	314.4
67.5°	291.7	289.0	282.3	270.3	258.2
70°	244.8	242.2	234.1	219.4	211.4
72.5°	202.0	199.4	188.7	171.3	160.6
75°	160.6	157.9	145.8	127.1	123.1
77.5°	121.8	120.4	108.4	99.0	97.7
80°	88.3	87.0	76.3	76.3	74.9
82.5°	56.2	56.2	53.5	54.9	56.2
85°	29.4	32.1	34.8	36.1	37.5
87.5°	9.4	14.7	17.4	18.7	17.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)