

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: P297639

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297639  
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-40L93050-LD5-UNV-14-T1-W2A-3000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2997.0 lumens  
Efficiency: N/A  
Efficacy: 74.2 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

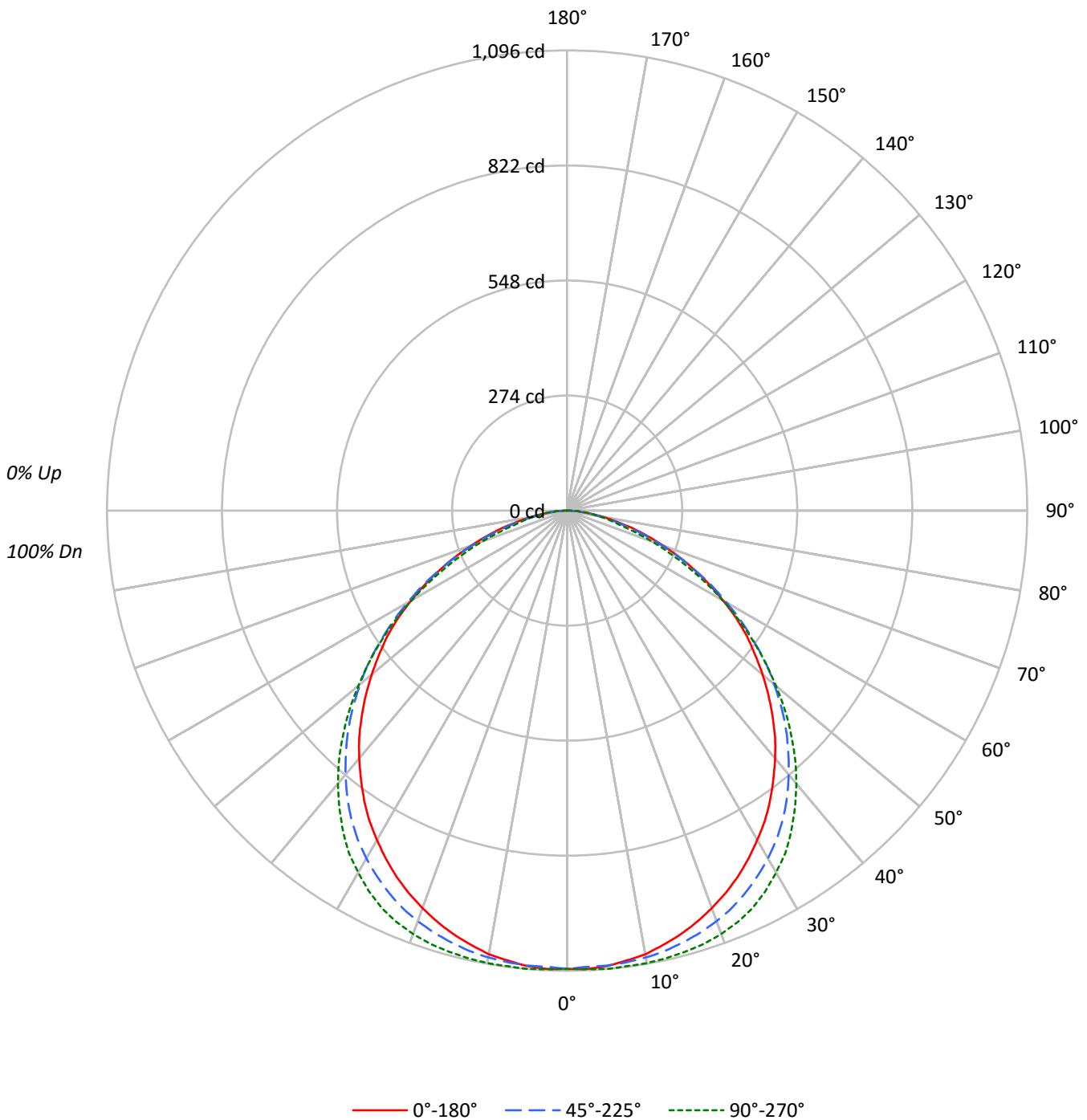
Input Watts (W): 40.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	2937	2937	2937
5°	2942	2938	2960
10°	2932	2954	2990
15°	2911	2967	3030
20°	2885	2981	3072
25°	2856	2983	3102
30°	2814	2972	3093
35°	2769	2944	3059
40°	2707	2885	2984
45°	2632	2805	2871
50°	2543	2694	2716
55°	2454	2548	2536
60°	2311	2362	2304
65°	2130	2138	2019
70°	1905	1863	1695
75°	1655	1544	1308
80°	1327	1203	1203
85°	951	1115	1158



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.8	3.5
10°-20°	301.3	10.1
20°-30°	462.7	15.4
30°-40°	557.3	18.6
40°-50°	563.1	18.8
50°-60°	480.3	16.0
60°-70°	328.8	11.0
70°-80°	158.7	5.3
80°-90°	40.9	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°	867.9	29.0
0°-40°	1425.1	47.6
0°-60°	2468.6	82.4
0°-90°	2997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2997.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1089	1089	1088	1094	1096	103
15°	1045	1053	1065	1084	1088	295
25°	962	977	1005	1034	1045	443
35°	843	862	896	924	931	527
45°	692	710	737	754	754	533
55°	523	532	543	546	540	466
65°	334	338	336	324	317	332
75°	159	159	148	131	126	169
85°	31	33	36	38	38	38
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1091.6	1091.6	1091.6	1091.6	1091.6
2.5°	1093.0	1091.6	1087.6	1093.0	1093.0
5°	1089.0	1089.0	1087.6	1094.3	1095.7
7.5°	1080.9	1083.6	1085.0	1093.0	1094.3
10°	1072.9	1075.6	1080.9	1091.6	1094.3
12.5°	1059.5	1064.9	1074.3	1089.0	1091.6
15°	1044.8	1052.8	1064.9	1083.6	1087.6
17.5°	1027.4	1038.1	1054.2	1075.6	1082.3
20°	1007.4	1019.4	1040.8	1064.9	1072.9
22.5°	986.0	999.3	1024.8	1052.8	1060.9
25°	961.9	976.6	1004.7	1034.1	1044.8
27.5°	935.1	951.2	981.9	1012.7	1022.1
30°	905.7	923.1	956.5	987.3	995.3
32.5°	876.3	893.7	928.4	957.9	967.2
35°	842.8	861.5	896.3	924.4	931.1
37.5°	806.7	825.4	860.2	888.3	891.0
40°	770.6	789.3	821.4	846.8	849.5
42.5°	733.1	750.5	779.9	801.3	804.0
45°	691.6	710.4	737.1	754.5	754.5
47.5°	650.2	668.9	691.6	703.7	703.7
50°	607.4	624.8	643.5	650.2	648.8
52.5°	564.6	580.6	596.7	598.0	595.3
55°	523.1	532.4	543.1	545.8	540.5
57.5°	477.6	485.6	492.3	488.3	484.3
60°	429.4	437.5	438.8	432.1	428.1
62.5°	382.6	389.3	389.3	378.6	371.9
65°	334.5	338.5	335.8	323.7	317.1
67.5°	289.0	291.6	286.3	274.2	263.5
70°	242.1	243.5	236.8	222.1	215.4
72.5°	199.3	200.7	192.6	175.3	167.2
75°	159.2	159.2	148.5	131.1	125.8
77.5°	119.1	123.1	111.0	101.7	101.7
80°	85.6	89.6	77.6	78.9	77.6
82.5°	56.2	60.2	56.2	56.2	56.2
85°	30.8	33.4	36.1	37.5	37.5
87.5°	9.4	16.1	17.4	18.7	21.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)