

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: P298073

Luminaire Tested: **D3X-WD-40L93050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298073  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
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-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2882.0 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

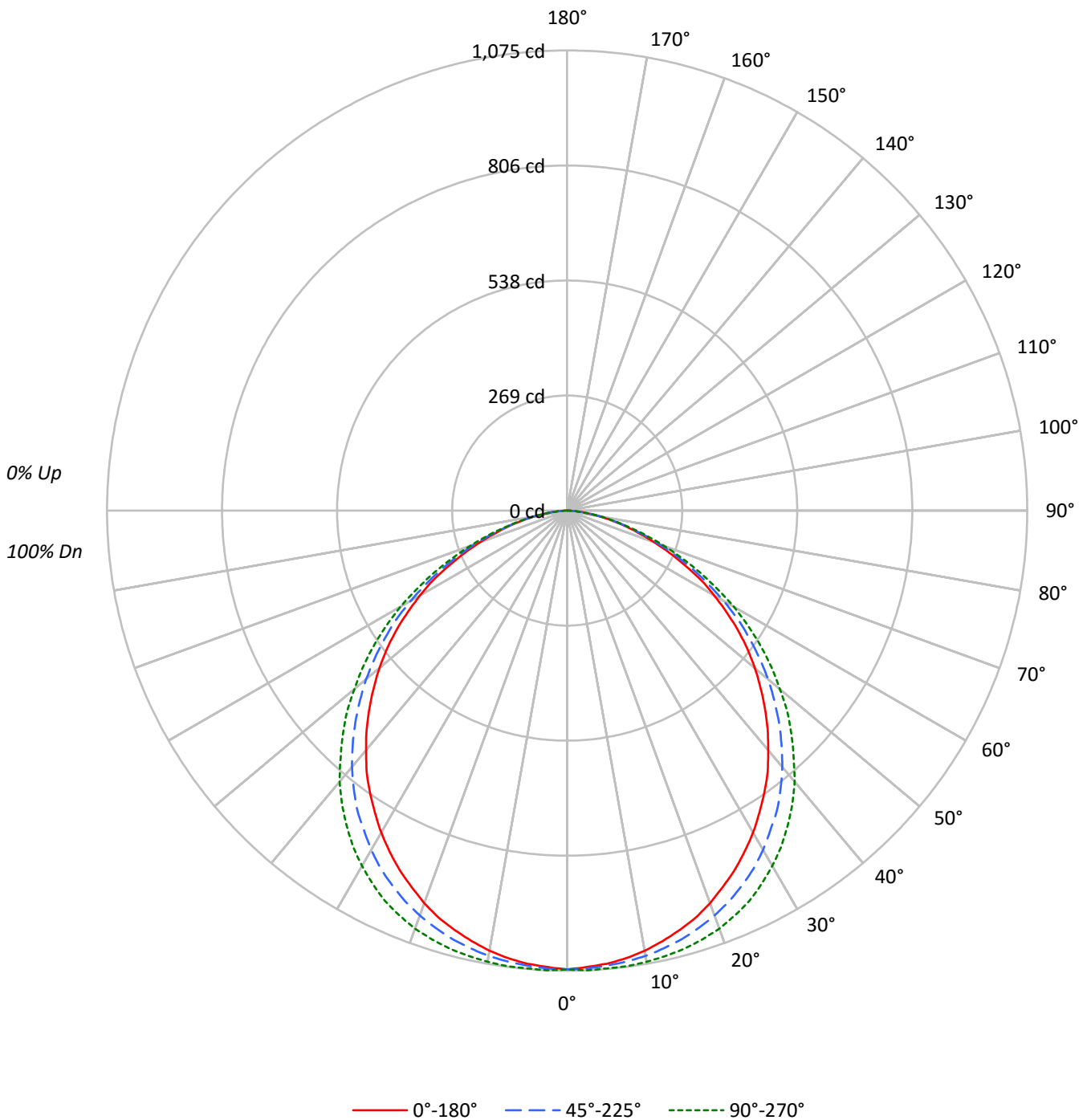
Input Watts (W): 32.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	2884	2884	2884
5°	2870	2883	2900
10°	2853	2887	2925
15°	2826	2887	2952
20°	2794	2883	2977
25°	2750	2869	2989
30°	2699	2844	2979
35°	2640	2808	2951
40°	2567	2746	2904
45°	2485	2662	2822
50°	2396	2565	2714
55°	2285	2438	2591
60°	2137	2271	2421
65°	1936	2055	2183
70°	1709	1794	1891
75°	1468	1500	1565
80°	1178	1203	1226
85°	861	766	766



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	101.6	3.5
10°-20°	292.6	10.2
20°-30°	445.1	15.4
30°-40°	532.5	18.5
40°-50°	538.3	18.7
50°-60°	463.3	16.1
60°-70°	319.8	11.1
70°-80°	155.1	5.4
80°-90°	33.6	1.2
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°	839.3	29.1
0°-40°	1371.8	47.6
0°-60°	2373.4	82.4
0°-90°	2882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2882.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1072	1072	1072	1072	1072	
5°	1063	1064	1067	1072	1074	101
15°	1014	1021	1036	1052	1060	286
25°	926	937	966	996	1007	426
35°	804	818	855	886	898	502
45°	653	666	700	729	742	504
55°	487	495	520	543	552	434
65°	304	309	323	337	343	303
75°	141	138	144	149	150	150
85°	28	28	25	25	25	34
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1071.9	1071.9	1071.9	1071.9	1071.9
2.5°	1067.3	1067.3	1070.4	1073.5	1075.0
5°	1062.6	1064.2	1067.3	1071.9	1073.5
7.5°	1054.9	1056.4	1062.6	1070.4	1073.5
10°	1044.0	1047.1	1056.4	1065.7	1070.4
12.5°	1030.1	1036.3	1047.1	1059.5	1065.7
15°	1014.5	1020.7	1036.3	1051.8	1059.5
17.5°	997.5	1003.7	1022.3	1042.5	1050.2
20°	975.8	985.1	1006.8	1030.1	1039.4
22.5°	950.9	963.3	988.2	1013.0	1023.8
25°	926.1	937.0	966.4	995.9	1006.8
27.5°	898.2	910.6	943.2	972.7	983.5
30°	868.7	881.1	915.3	947.8	958.7
32.5°	836.1	851.7	884.2	918.4	930.8
35°	803.6	817.5	854.8	885.8	898.2
37.5°	769.4	781.8	819.1	851.7	864.1
40°	730.7	744.6	781.8	814.4	826.8
42.5°	693.4	707.4	741.5	772.5	783.4
45°	653.1	665.5	699.6	729.1	741.5
47.5°	612.8	626.7	656.2	685.7	698.1
50°	572.4	583.3	612.8	640.7	648.4
52.5°	530.5	539.8	566.2	591.0	601.9
55°	487.1	494.9	519.7	542.9	552.3
57.5°	440.6	449.9	473.1	490.2	501.1
60°	397.1	401.8	421.9	439.0	449.9
62.5°	353.7	355.2	370.8	387.8	394.0
65°	304.1	308.7	322.7	336.6	342.8
67.5°	259.1	263.7	274.6	285.4	290.1
70°	217.2	217.2	228.0	235.8	240.4
72.5°	175.3	176.8	184.6	189.3	193.9
75°	141.2	138.1	144.3	148.9	150.5
77.5°	105.5	103.9	108.6	110.1	113.2
80°	76.0	76.0	77.6	79.1	79.1
82.5°	49.6	49.6	51.2	48.1	46.5
85°	27.9	27.9	24.8	24.8	24.8
87.5°	9.3	9.3	9.3	10.9	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)