

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: P298070

Luminaire Tested: **D3X-WD-35L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298070  
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-35L93050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3007.0 lumens  
Efficiency: N/A  
Efficacy: 105.1 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

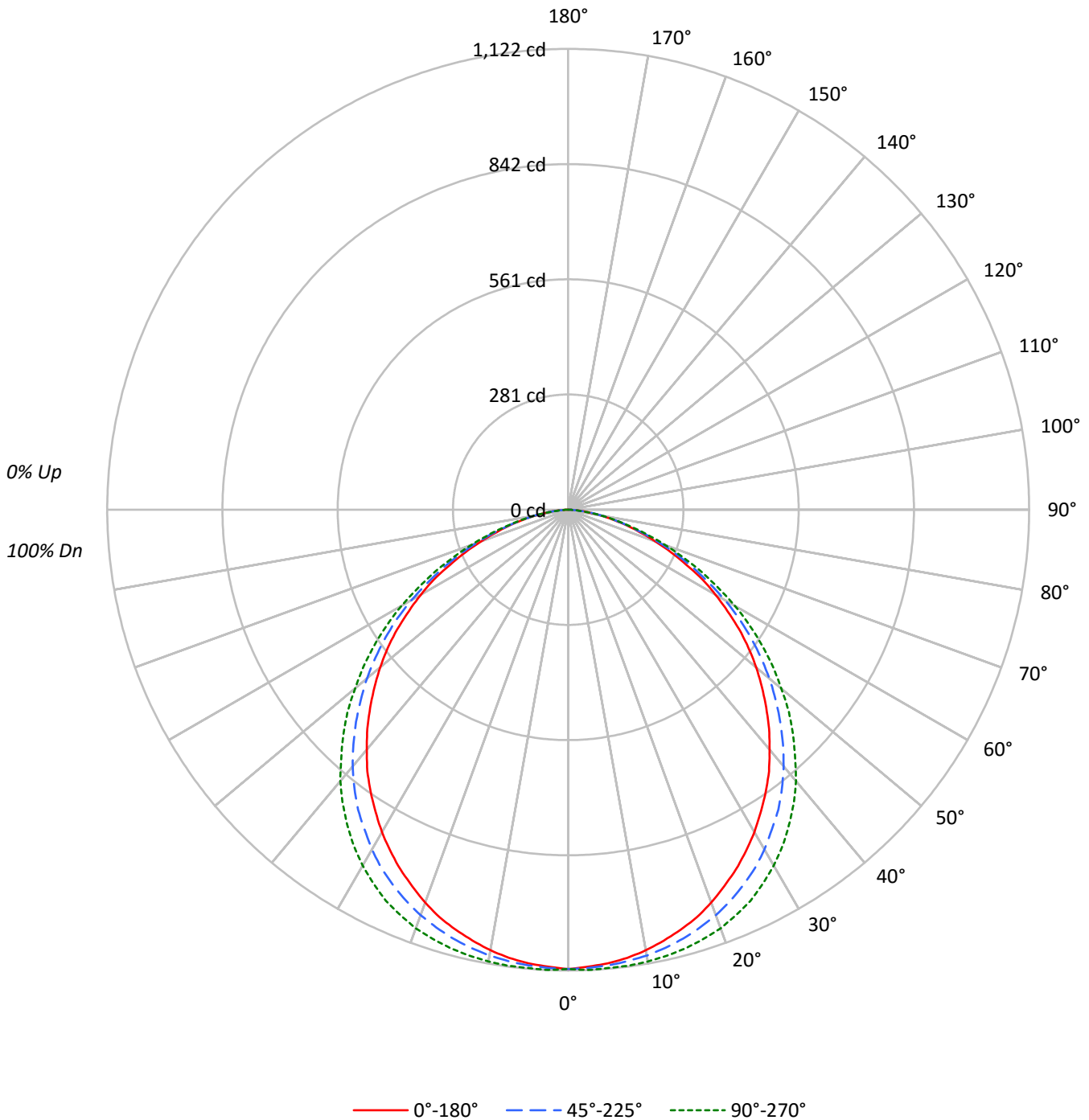
Input Watts (W): 28.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56		66	60	55		64	59	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	31	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	27		37	32	27	26

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

	0°	45°	90°
0°	3010	3010	3010
5°	2995	3008	3025
10°	2977	3012	3052
15°	2949	3012	3080
20°	2916	3008	3105
25°	2869	2994	3119
30°	2816	2967	3108
35°	2754	2930	3078
40°	2678	2866	3031
45°	2593	2778	2944
50°	2500	2676	2833
55°	2384	2544	2703
60°	2230	2369	2526
65°	2020	2144	2278
70°	1783	1872	1974
75°	1531	1565	1632
80°	1229	1254	1278
85°	898	800	800



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.0	3.5
10°-20°	305.3	10.2
20°-30°	464.4	15.4
30°-40°	555.6	18.5
40°-50°	561.7	18.7
50°-60°	483.4	16.1
60°-70°	333.7	11.1
70°-80°	161.8	5.4
80°-90°	35.1	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°	875.7	29.1
0°-40°	1431.3	47.6
0°-60°	2476.4	82.4
0°-90°	3007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3007.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1118	1118	1118	1118	1118	
5°	1109	1110	1114	1118	1120	105
15°	1058	1065	1081	1097	1106	299
25°	966	978	1008	1039	1050	445
35°	838	853	892	924	937	524
45°	681	694	730	761	774	526
55°	508	516	542	566	576	453
65°	317	322	337	351	358	316
75°	147	144	150	155	157	156
85°	29	29	26	26	26	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1118.4	1118.4	1118.4	1118.4	1118.4
2.5°	1113.6	1113.6	1116.8	1120.0	1121.7
5°	1108.7	1110.3	1113.6	1118.4	1120.0
7.5°	1100.6	1102.2	1108.7	1116.8	1120.0
10°	1089.3	1092.5	1102.2	1112.0	1116.8
12.5°	1074.7	1081.2	1092.5	1105.5	1112.0
15°	1058.5	1065.0	1081.2	1097.4	1105.5
17.5°	1040.7	1047.2	1066.6	1087.7	1095.8
20°	1018.1	1027.8	1050.4	1074.7	1084.4
22.5°	992.2	1005.1	1031.0	1056.9	1068.3
25°	966.3	977.6	1008.4	1039.1	1050.4
27.5°	937.1	950.1	984.1	1014.8	1026.2
30°	906.4	919.3	955.0	988.9	1000.3
32.5°	872.4	888.6	922.6	958.2	971.1
35°	838.4	853.0	891.8	924.2	937.1
37.5°	802.8	815.8	854.6	888.6	901.5
40°	762.3	776.9	815.8	849.7	862.7
42.5°	723.5	738.1	773.7	806.0	817.4
45°	681.4	694.4	730.0	760.7	773.7
47.5°	639.3	653.9	684.7	715.4	728.4
50°	597.2	608.6	639.3	668.5	676.6
52.5°	553.5	563.3	590.8	616.7	628.0
55°	508.2	516.3	542.2	566.5	576.2
57.5°	459.7	469.4	493.7	511.5	522.8
60°	414.4	419.2	440.2	458.1	469.4
62.5°	369.0	370.7	386.8	404.6	411.1
65°	317.2	322.1	336.7	351.2	357.7
67.5°	270.3	275.2	286.5	297.8	302.7
70°	226.6	226.6	237.9	246.0	250.9
72.5°	182.9	184.5	192.6	197.5	202.3
75°	147.3	144.1	150.5	155.4	157.0
77.5°	110.1	108.4	113.3	114.9	118.2
80°	79.3	79.3	80.9	82.5	82.5
82.5°	51.8	51.8	53.4	50.2	48.6
85°	29.1	29.1	25.9	25.9	25.9
87.5°	9.7	9.7	9.7	11.3	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)