

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: P298069

Luminaire Tested: **D3X-WD-35L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298069  
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-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2784.0 lumens  
Efficiency: N/A  
Efficacy: 97.7 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

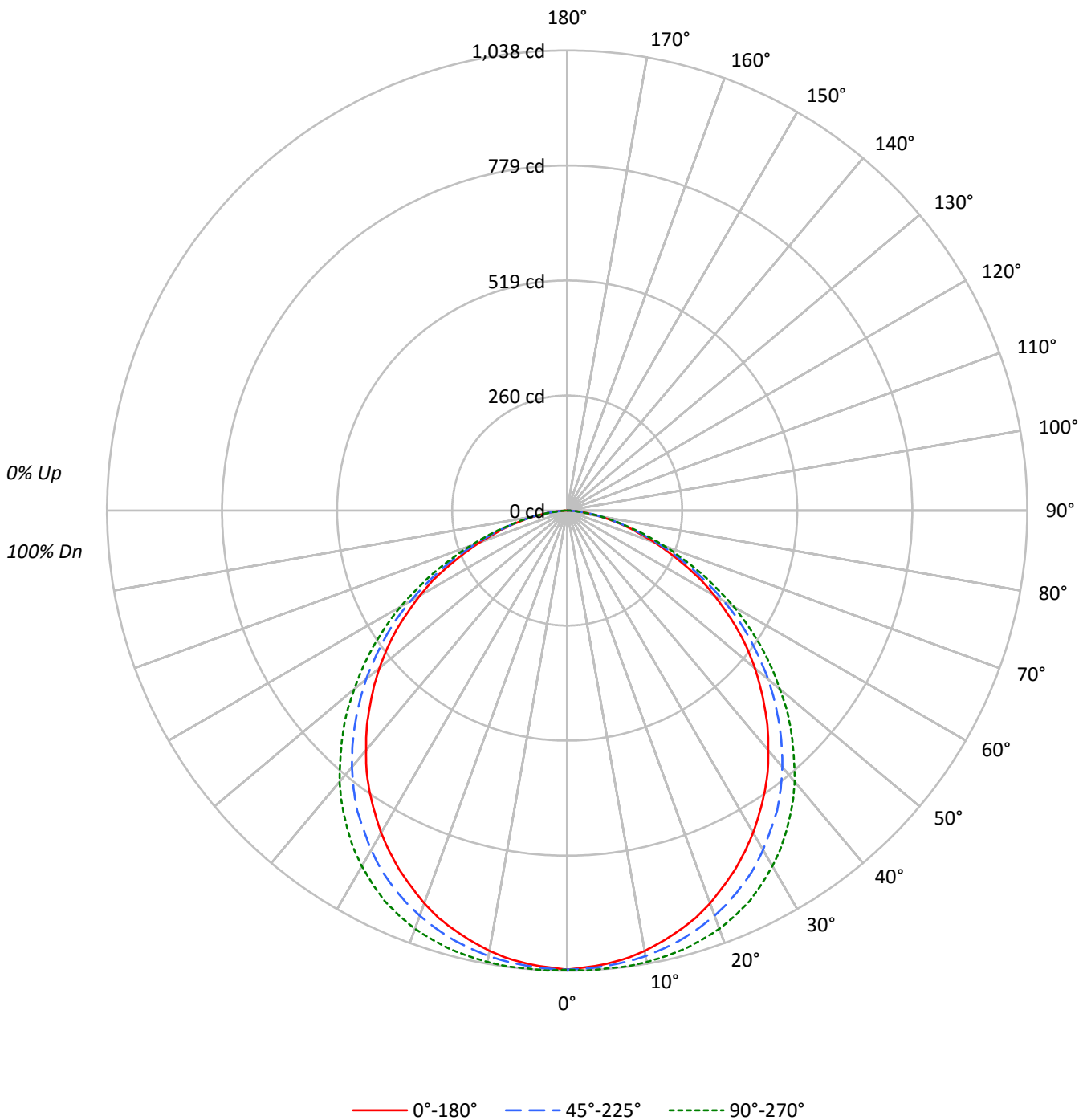
Input Watts (W): 28.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2787	2787	2787
5°	2773	2785	2801
10°	2756	2789	2825
15°	2730	2789	2851
20°	2699	2785	2875
25°	2656	2772	2888
30°	2608	2747	2878
35°	2550	2712	2850
40°	2479	2653	2806
45°	2401	2572	2726
50°	2315	2478	2622
55°	2207	2355	2503
60°	2065	2194	2339
65°	1870	1985	2109
70°	1651	1733	1828
75°	1418	1449	1512
80°	1137	1161	1184
85°	834	741	741



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.1	3.5
10°-20°	282.7	10.2
20°-30°	429.9	15.4
30°-40°	514.4	18.5
40°-50°	520.0	18.7
50°-60°	447.5	16.1
60°-70°	309.0	11.1
70°-80°	149.8	5.4
80°-90°	32.5	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°	810.7	29.1
0°-40°	1325.1	47.6
0°-60°	2292.7	82.4
0°-90°	2784.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1036	1036	1036	1036	1036	
5°	1026	1028	1031	1036	1037	97
15°	980	986	1001	1016	1024	276
25°	895	905	934	962	972	412
35°	776	790	826	856	868	485
45°	631	643	676	704	716	487
55°	470	478	502	524	534	420
65°	294	298	312	325	331	292
75°	136	133	139	144	145	145
85°	27	27	24	24	24	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1035.5	1035.5	1035.5	1035.5	1035.5
2.5°	1031.0	1031.0	1034.0	1037.0	1038.5
5°	1026.5	1028.0	1031.0	1035.5	1037.0
7.5°	1019.0	1020.5	1026.5	1034.0	1037.0
10°	1008.5	1011.5	1020.5	1029.5	1034.0
12.5°	995.0	1001.0	1011.5	1023.5	1029.5
15°	980.0	986.0	1001.0	1016.0	1023.5
17.5°	963.6	969.5	987.5	1007.0	1014.5
20°	942.6	951.6	972.5	995.0	1004.0
22.5°	918.6	930.6	954.6	978.5	989.0
25°	894.6	905.1	933.6	962.1	972.5
27.5°	867.6	879.6	911.1	939.6	950.1
30°	839.2	851.2	884.1	915.6	926.1
32.5°	807.7	822.7	854.2	887.1	899.1
35°	776.2	789.7	825.7	855.7	867.6
37.5°	743.3	755.3	791.2	822.7	834.7
40°	705.8	719.3	755.3	786.7	798.7
42.5°	669.8	683.3	716.3	746.3	756.8
45°	630.9	642.9	675.8	704.3	716.3
47.5°	591.9	605.4	633.9	662.4	674.3
50°	553.0	563.4	591.9	618.9	626.4
52.5°	512.5	521.5	547.0	570.9	581.4
55°	470.5	478.0	502.0	524.5	533.5
57.5°	425.6	434.6	457.1	473.5	484.0
60°	383.6	388.1	407.6	424.1	434.6
62.5°	341.7	343.2	358.1	374.6	380.6
65°	293.7	298.2	311.7	325.2	331.2
67.5°	250.3	254.8	265.2	275.7	280.2
70°	209.8	209.8	220.3	227.8	232.3
72.5°	169.3	170.8	178.3	182.8	187.3
75°	136.4	133.4	139.4	143.9	145.4
77.5°	101.9	100.4	104.9	106.4	109.4
80°	73.4	73.4	74.9	76.4	76.4
82.5°	48.0	48.0	49.5	46.5	45.0
85°	27.0	27.0	24.0	24.0	24.0
87.5°	9.0	9.0	9.0	10.5	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)