

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: P298311

Luminaire Tested: **D3X-WO-25L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298311  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-25L83050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2465.0 lumens  
Efficiency: N/A  
Efficacy: 130.4 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

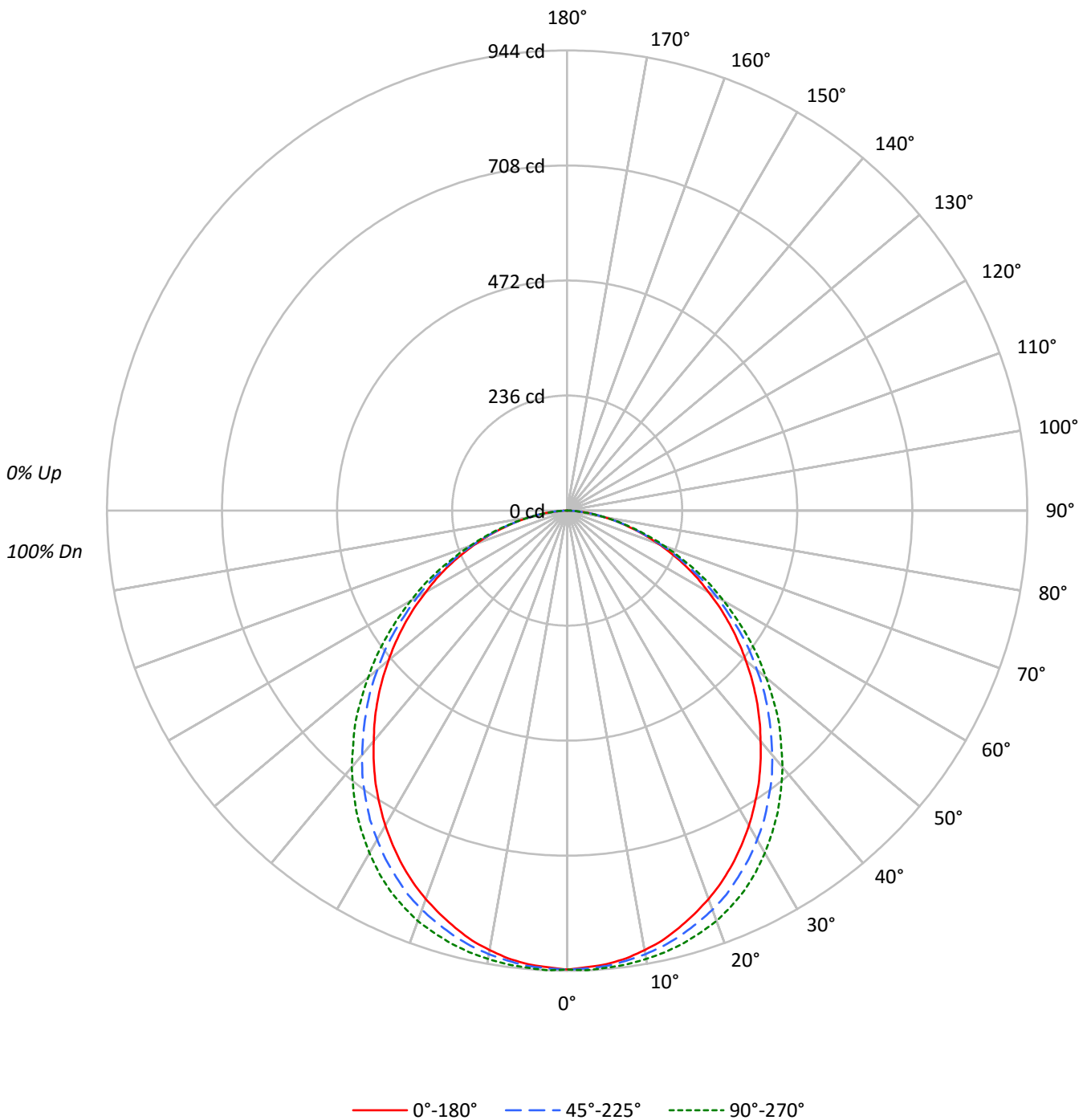
Input Watts (W): 18.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	2533	2533	2533
5°	2523	2533	2543
10°	2502	2525	2552
15°	2469	2513	2561
20°	2429	2495	2566
25°	2379	2464	2555
30°	2319	2422	2521
35°	2250	2367	2476
40°	2168	2298	2414
45°	2092	2219	2340
50°	2004	2127	2230
55°	1912	2027	2125
60°	1803	1909	1995
65°	1704	1766	1852
70°	1564	1613	1670
75°	1391	1430	1467
80°	1198	1179	1179
85°	911	834	756



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.1	3.6
10°-20°	254.5	10.3
20°-30°	382.2	15.5
30°-40°	449.8	18.2
40°-50°	448.6	18.2
50°-60°	385.0	15.6
60°-70°	275.7	11.2
70°-80°	146.0	5.9
80°-90°	34.1	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°	725.7	29.4
0°-40°	1175.5	47.7
0°-60°	2009.1	81.5
0°-90°	2465.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2465.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	941	941	941	941	941	
5°	934	934	938	940	941	89
15°	886	890	902	914	919	250
25°	801	809	830	850	860	369
35°	685	693	720	745	754	428
45°	550	558	583	604	615	424
55°	408	414	432	447	453	364
65°	268	269	277	288	291	264
75°	134	134	138	140	141	143
85°	30	28	27	24	24	36
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	941.4	941.4	941.4	941.4	941.4
2.5°	937.7	937.7	940.1	942.6	943.8
5°	934.0	934.0	937.7	940.1	941.4
7.5°	926.6	926.6	931.5	936.5	938.9
10°	915.6	918.0	924.2	931.5	934.0
12.5°	903.3	905.8	914.4	924.2	927.9
15°	886.1	889.8	902.1	914.4	919.3
17.5°	867.7	872.6	887.4	902.1	908.2
20°	848.1	853.0	871.4	888.6	896.0
22.5°	826.0	832.1	853.0	871.4	878.8
25°	801.4	808.8	829.7	850.5	860.4
27.5°	774.4	783.0	806.4	828.4	837.0
30°	746.2	756.0	779.4	802.7	811.3
32.5°	715.5	724.1	752.4	774.4	783.0
35°	684.8	693.4	720.4	745.0	753.6
37.5°	651.7	662.8	689.8	711.9	720.4
40°	617.3	628.4	654.2	679.9	687.3
42.5°	584.2	594.0	618.6	641.9	649.3
45°	549.8	558.4	583.0	603.8	614.9
47.5°	514.3	522.8	547.4	567.0	573.2
50°	478.7	487.2	508.1	525.3	532.7
52.5°	443.1	451.7	471.3	487.2	494.6
55°	407.5	413.6	432.0	446.7	452.9
57.5°	371.9	376.8	391.5	407.5	411.2
60°	335.1	341.2	354.7	365.7	370.7
62.5°	301.9	304.4	316.7	326.5	332.6
65°	267.6	268.8	277.4	288.4	290.9
67.5°	232.0	233.2	241.8	247.9	250.4
70°	198.8	198.8	205.0	209.9	212.3
72.5°	166.9	165.7	169.4	174.3	176.7
75°	133.8	133.8	137.5	139.9	141.1
77.5°	105.6	103.1	105.6	108.0	108.0
80°	77.3	76.1	76.1	77.3	76.1
82.5°	52.8	51.5	52.8	50.3	49.1
85°	29.5	28.2	27.0	24.5	24.5
87.5°	9.8	8.6	8.6	9.8	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)