

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: P298318

Luminaire Tested: **D3X-WO-31L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298318  
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-31L83050-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3334.0 lumens  
Efficiency: N/A  
Efficacy: 129.7 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

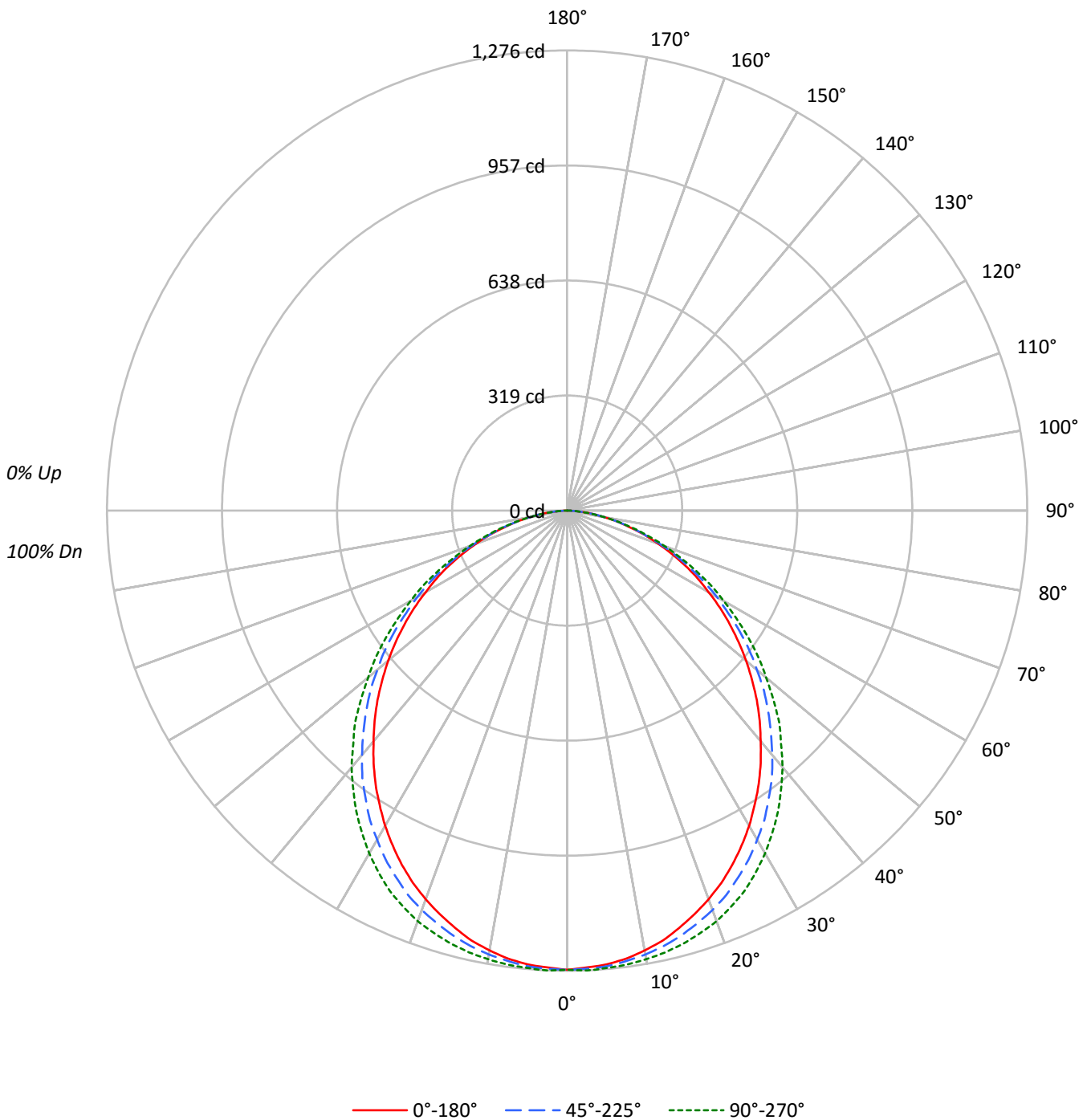
Input Watts (W): 25.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3426	3426	3426
5°	3412	3426	3439
10°	3384	3416	3452
15°	3339	3399	3464
20°	3285	3375	3470
25°	3219	3332	3455
30°	3136	3275	3410
35°	3043	3201	3348
40°	2933	3108	3266
45°	2830	3001	3165
50°	2710	2877	3016
55°	2586	2741	2874
60°	2439	2582	2698
65°	2304	2389	2505
70°	2116	2181	2260
75°	1881	1933	1985
80°	1621	1595	1595
85°	1229	1127	1025



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	120.5	3.6
10°-20°	344.3	10.3
20°-30°	516.9	15.5
30°-40°	608.3	18.2
40°-50°	606.8	18.2
50°-60°	520.7	15.6
60°-70°	372.9	11.2
70°-80°	197.5	5.9
80°-90°	46.2	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°	981.6	29.4
0°-40°	1589.9	47.7
0°-60°	2717.4	81.5
0°-90°	3334.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3334.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1273	1273	1273	1273	1273	
5°	1263	1263	1268	1272	1273	120
15°	1198	1204	1220	1237	1243	338
25°	1084	1094	1122	1150	1164	499
35°	926	938	974	1008	1019	579
45°	744	755	788	817	832	573
55°	551	559	584	604	612	493
65°	362	364	375	390	393	357
75°	181	181	186	189	191	194
85°	40	38	36	33	33	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1273.2	1273.2	1273.2	1273.2	1273.2
2.5°	1268.2	1268.2	1271.6	1274.9	1276.5
5°	1263.3	1263.3	1268.2	1271.6	1273.2
7.5°	1253.3	1253.3	1259.9	1266.6	1269.9
10°	1238.4	1241.7	1250.0	1259.9	1263.3
12.5°	1221.8	1225.1	1236.7	1250.0	1255.0
15°	1198.5	1203.5	1220.1	1236.7	1243.3
17.5°	1173.6	1180.3	1200.2	1220.1	1228.4
20°	1147.1	1153.7	1178.6	1201.8	1211.8
22.5°	1117.2	1125.5	1153.7	1178.6	1188.6
25°	1084.0	1093.9	1122.2	1150.4	1163.7
27.5°	1047.5	1059.1	1090.6	1120.5	1132.1
30°	1009.3	1022.6	1054.1	1085.6	1097.3
32.5°	967.8	979.4	1017.6	1047.5	1059.1
35°	926.3	937.9	974.4	1007.6	1019.2
37.5°	881.5	896.4	932.9	962.8	974.4
40°	835.0	849.9	884.8	919.6	929.6
42.5°	790.2	803.4	836.6	868.2	878.1
45°	743.7	755.3	788.5	816.7	831.7
47.5°	695.5	707.2	740.4	766.9	775.2
50°	647.4	659.0	687.2	710.5	720.4
52.5°	599.3	610.9	637.4	659.0	669.0
55°	551.1	559.4	584.3	604.2	612.5
57.5°	503.0	509.6	529.5	551.1	556.1
60°	453.2	461.5	479.7	494.7	501.3
62.5°	408.4	411.7	428.3	441.6	449.9
65°	361.9	363.5	375.2	390.1	393.4
67.5°	313.7	315.4	327.0	335.3	338.6
70°	268.9	268.9	277.2	283.9	287.2
72.5°	225.8	224.1	229.1	235.7	239.0
75°	180.9	180.9	185.9	189.2	190.9
77.5°	142.8	139.4	142.8	146.1	146.1
80°	104.6	102.9	102.9	104.6	102.9
82.5°	71.4	69.7	71.4	68.1	66.4
85°	39.8	38.2	36.5	33.2	33.2
87.5°	13.3	11.6	11.6	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)