

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: P296990

Luminaire Tested: **D3X-WG-31L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296990  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-31L83050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2915.0 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

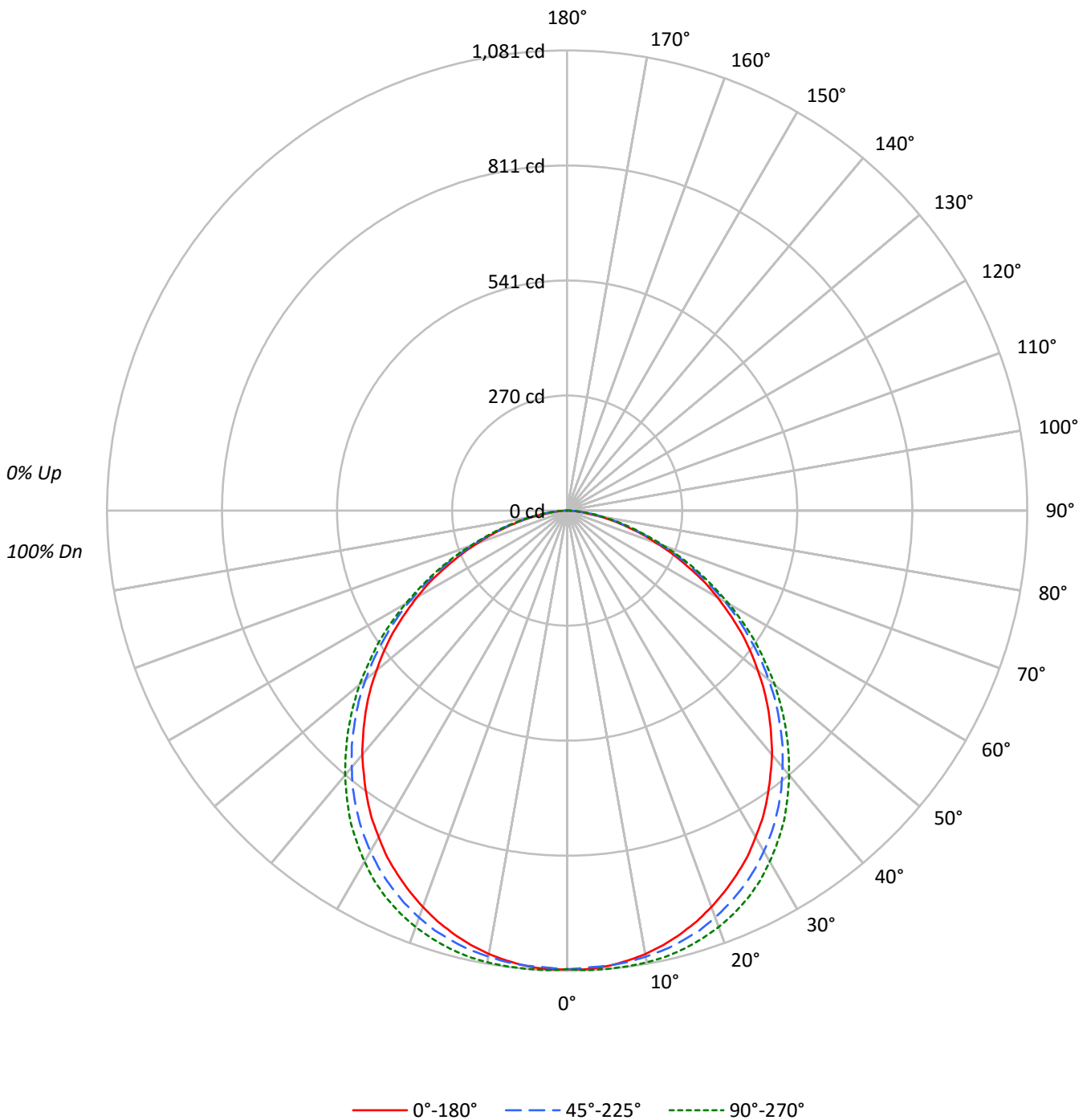
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	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		47	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	30	42	35	30		41	35	30		40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27		38	32	27		37	31	27	26

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

	0°	45°	90°
0°	1450	1450	1450
5°	1451	1450	1460
10°	1445	1454	1472
15°	1434	1457	1484
20°	1419	1456	1491
25°	1400	1449	1491
30°	1376	1436	1480
35°	1348	1415	1460
40°	1315	1383	1425
45°	1274	1343	1383
50°	1224	1294	1333
55°	1171	1230	1269
60°	1096	1152	1180
65°	1001	1054	1081
70°	879	924	949
75°	744	782	809
80°	590	647	663
85°	403	483	468



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.4	3.5
10°-20°	295.6	10.1
20°-30°	449.2	15.4
30°-40°	536.1	18.4
40°-50°	541.4	18.6
50°-60°	466.4	16.0
60°-70°	325.2	11.2
70°-80°	161.2	5.5
80°-90°	37.6	1.3
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°	847.2	29.1
0°-40°	1383.3	47.5
0°-60°	2391.1	82.0
0°-90°	2915.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2915.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1078	1078	1078	1078	1078	
5°	1074	1073	1073	1079	1081	102
15°	1030	1035	1046	1060	1065	290
25°	943	955	976	996	1004	434
35°	821	834	862	881	889	513
45°	669	684	706	723	727	516
55°	499	510	524	537	541	445
65°	314	321	331	334	339	312
75°	143	145	150	154	156	154
85°	26	31	31	29	30	33
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1077.6	1077.6	1077.6	1077.6	1077.6
2.5°	1078.7	1076.6	1074.5	1078.7	1080.7
5°	1074.5	1073.4	1073.4	1078.7	1080.7
7.5°	1067.2	1067.2	1070.3	1077.6	1079.7
10°	1057.8	1059.9	1064.0	1074.5	1077.6
12.5°	1045.2	1049.4	1056.7	1069.3	1073.4
15°	1029.6	1034.8	1046.3	1059.9	1065.1
17.5°	1011.8	1019.1	1033.8	1049.4	1054.6
20°	990.9	1000.3	1017.1	1034.8	1041.1
22.5°	968.0	979.5	998.3	1017.1	1024.4
25°	942.9	955.4	976.3	996.2	1004.5
27.5°	916.8	929.3	952.3	972.1	980.5
30°	885.5	900.1	924.1	945.0	952.3
32.5°	855.2	869.8	894.9	913.7	921.0
35°	820.7	834.3	861.5	881.3	888.6
37.5°	784.2	799.9	826.0	843.7	850.0
40°	748.7	762.3	787.3	805.1	811.3
42.5°	709.0	723.6	748.7	764.4	769.6
45°	669.3	684.0	705.9	722.6	726.8
47.5°	628.6	642.2	664.1	677.7	681.9
50°	584.8	597.3	618.2	631.7	637.0
52.5°	543.0	554.5	572.2	583.7	586.8
55°	499.1	509.6	524.2	536.7	540.9
57.5°	452.1	463.6	477.2	487.6	490.8
60°	407.2	416.6	428.1	437.5	438.6
62.5°	363.4	367.6	378.0	386.4	387.4
65°	314.3	320.6	331.0	334.1	339.4
67.5°	269.4	273.6	281.9	286.1	290.3
70°	223.5	226.6	234.9	240.2	241.2
72.5°	183.8	184.8	191.1	195.3	196.3
75°	143.1	145.1	150.4	153.5	155.6
77.5°	108.6	110.7	114.9	117.0	117.0
80°	76.2	79.4	83.5	84.6	85.6
82.5°	49.1	53.3	56.4	57.4	55.3
85°	26.1	31.3	31.3	29.2	30.3
87.5°	9.4	11.5	12.5	13.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)