

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: P298357

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298357  
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-31L82765-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: 3195.0 lumens  
Efficiency: N/A  
Efficacy: 128.3 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

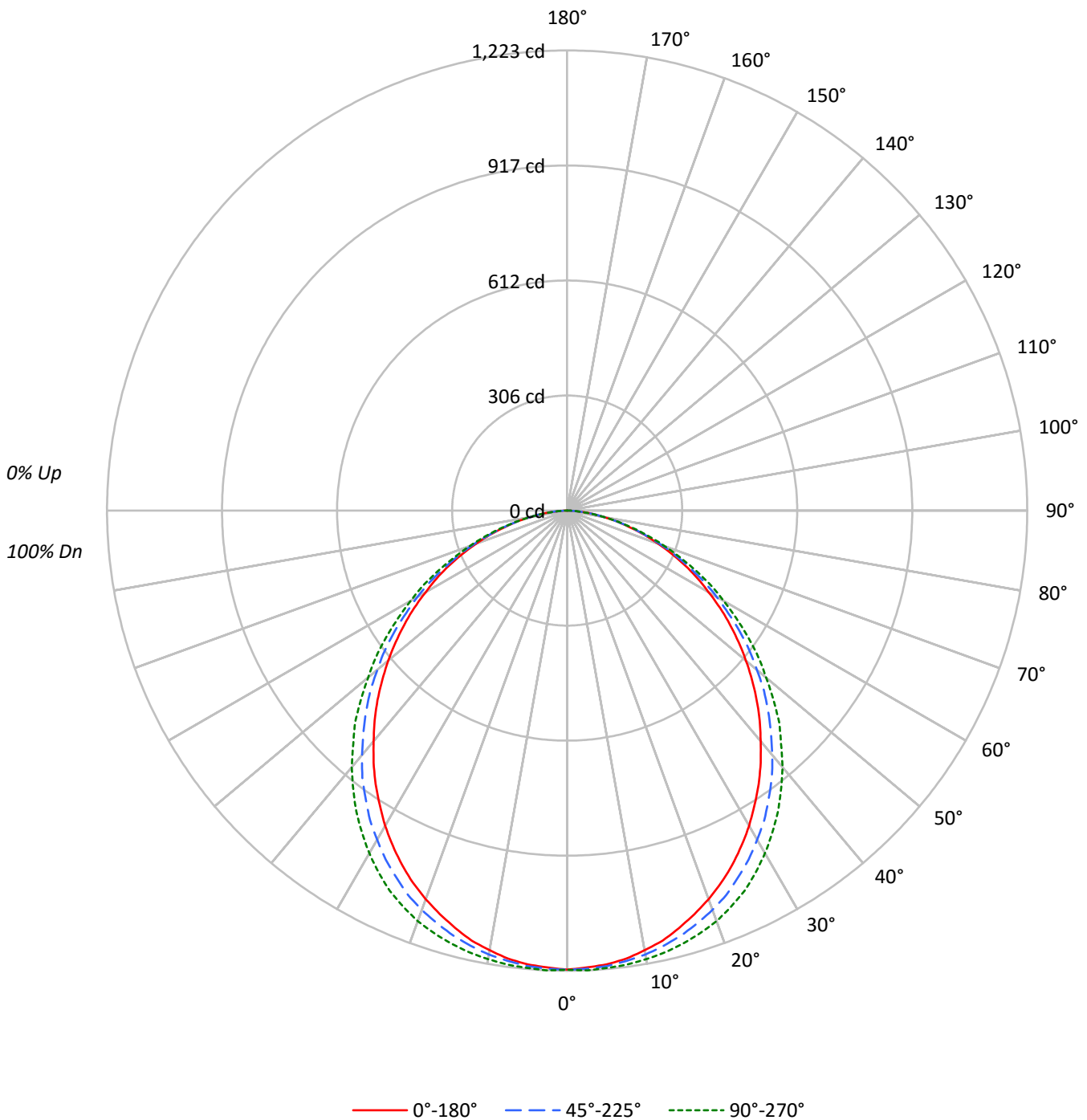
Input Watts (W): 24.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3283	3283	3283
5°	3270	3283	3296
10°	3243	3273	3308
15°	3200	3257	3319
20°	3148	3235	3326
25°	3084	3193	3311
30°	3005	3139	3267
35°	2916	3068	3209
40°	2811	2979	3129
45°	2712	2876	3033
50°	2597	2757	2890
55°	2478	2627	2754
60°	2337	2474	2585
65°	2208	2289	2401
70°	2028	2090	2165
75°	1803	1853	1902
80°	1553	1528	1528
85°	1179	1081	982



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.4	3.6
10°-20°	329.9	10.3
20°-30°	495.3	15.5
30°-40°	583.0	18.2
40°-50°	581.5	18.2
50°-60°	499.0	15.6
60°-70°	357.4	11.2
70°-80°	189.3	5.9
80°-90°	44.2	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°	940.7	29.4
0°-40°	1523.6	47.7
0°-60°	2604.1	81.5
0°-90°	3195.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3195.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1211	1211	1215	1219	1220	115
15°	1149	1153	1169	1185	1192	324
25°	1039	1048	1075	1102	1115	478
35°	888	899	934	966	977	554
45°	713	724	756	783	797	549
55°	528	536	560	579	587	472
65°	347	348	360	374	377	343
75°	173	173	178	181	183	186
85°	38	37	35	32	32	46
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1220.1	1220.1	1220.1	1220.1	1220.1
2.5°	1215.4	1215.4	1218.6	1221.7	1223.3
5°	1210.6	1210.6	1215.4	1218.6	1220.1
7.5°	1201.1	1201.1	1207.4	1213.8	1217.0
10°	1186.7	1189.9	1197.9	1207.4	1210.6
12.5°	1170.8	1174.0	1185.1	1197.9	1202.6
15°	1148.6	1153.3	1169.2	1185.1	1191.5
17.5°	1124.7	1131.1	1150.1	1169.2	1177.2
20°	1099.2	1105.6	1129.5	1151.7	1161.3
22.5°	1070.6	1078.6	1105.6	1129.5	1139.0
25°	1038.8	1048.3	1075.4	1102.4	1115.1
27.5°	1003.8	1014.9	1045.2	1073.8	1084.9
30°	967.2	979.9	1010.2	1040.4	1051.5
32.5°	927.4	938.6	975.2	1003.8	1014.9
35°	887.7	898.8	933.8	965.6	976.7
37.5°	844.7	859.0	894.0	922.7	933.8
40°	800.2	814.5	847.9	881.3	890.8
42.5°	757.2	769.9	801.8	832.0	841.5
45°	712.7	723.8	755.6	782.7	797.0
47.5°	666.5	677.7	709.5	734.9	742.9
50°	620.4	631.5	658.6	680.9	690.4
52.5°	574.3	585.4	610.9	631.5	641.1
55°	528.1	536.1	560.0	579.1	587.0
57.5°	482.0	488.4	507.5	528.1	532.9
60°	434.3	442.2	459.7	474.1	480.4
62.5°	391.3	394.5	410.4	423.2	431.1
65°	346.8	348.4	359.5	373.8	377.0
67.5°	300.7	302.3	313.4	321.3	324.5
70°	257.7	257.7	265.7	272.0	275.2
72.5°	216.3	214.8	219.5	225.9	229.1
75°	173.4	173.4	178.2	181.4	182.9
77.5°	136.8	133.6	136.8	140.0	140.0
80°	100.2	98.6	98.6	100.2	98.6
82.5°	68.4	66.8	68.4	65.2	63.6
85°	38.2	36.6	35.0	31.8	31.8
87.5°	12.7	11.1	11.1	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)