

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: P298439

Luminaire Tested: **D3X-WO-31L92765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298439  
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-31L92765-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2691.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

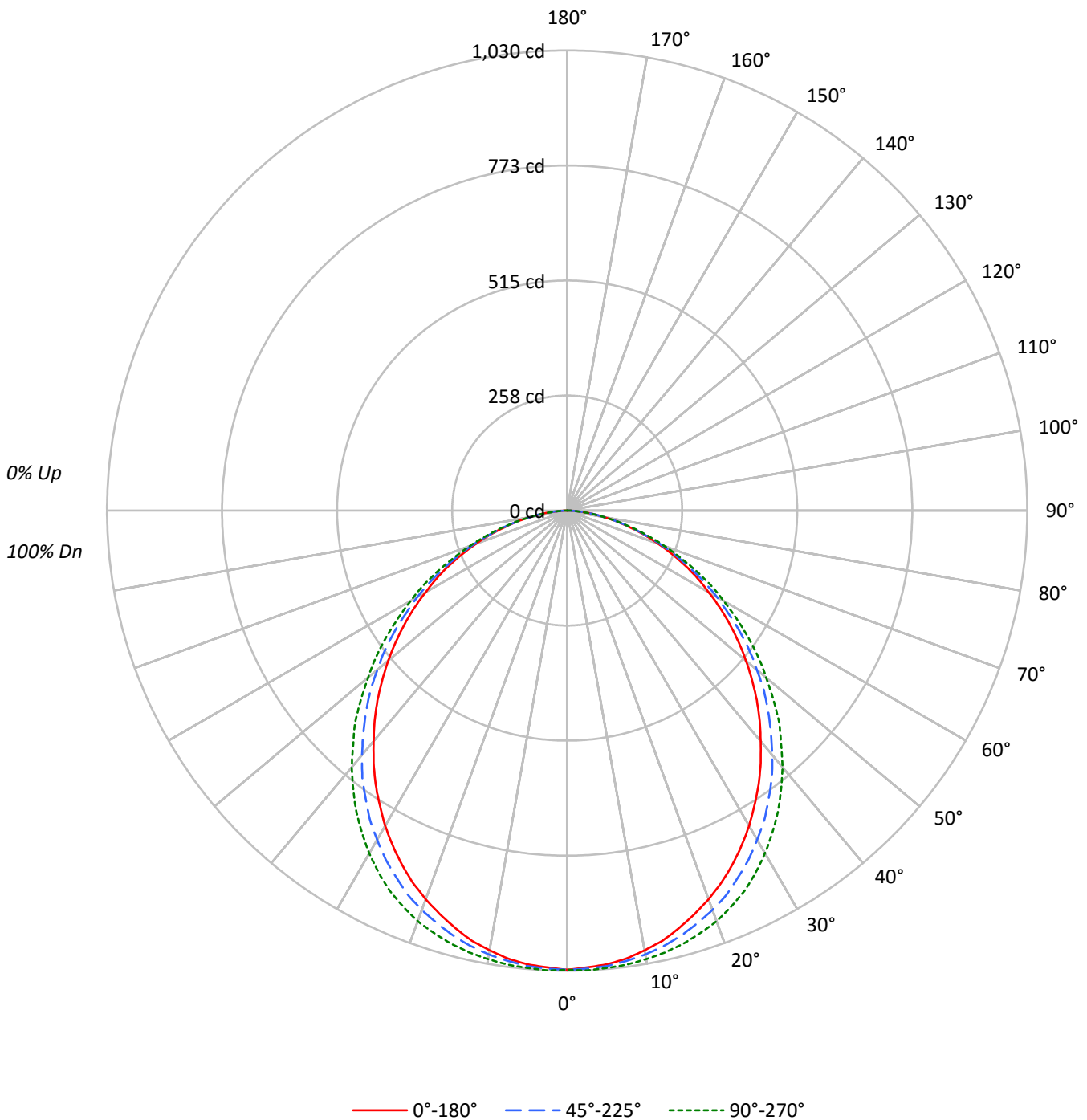
Input Watts (W): 24.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2766	2766	2766
5°	2754	2765	2776
10°	2731	2757	2786
15°	2695	2744	2796
20°	2651	2724	2801
25°	2598	2689	2789
30°	2531	2644	2752
35°	2456	2584	2703
40°	2367	2509	2636
45°	2285	2422	2555
50°	2187	2322	2434
55°	2087	2213	2320
60°	1969	2084	2178
65°	1860	1928	2022
70°	1708	1761	1824
75°	1518	1561	1602
80°	1308	1288	1288
85°	994	911	827



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.2	3.6
10°-20°	277.9	10.3
20°-30°	417.2	15.5
30°-40°	491.0	18.2
40°-50°	489.7	18.2
50°-60°	420.3	15.6
60°-70°	301.0	11.2
70°-80°	159.4	5.9
80°-90°	37.3	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°	792.3	29.4
0°-40°	1283.3	47.7
0°-60°	2193.3	81.5
0°-90°	2691.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2691.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1020	1020	1024	1026	1028	97
15°	967	971	985	998	1004	273
25°	875	883	906	928	939	403
35°	748	757	786	813	823	467
45°	600	610	636	659	671	463
55°	445	452	472	488	494	398
65°	292	293	303	315	318	288
75°	146	146	150	153	154	157
85°	32	31	30	27	27	39
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1027.7	1027.7	1027.7	1027.7	1027.7
2.5°	1023.6	1023.6	1026.3	1029.0	1030.3
5°	1019.6	1019.6	1023.6	1026.3	1027.7
7.5°	1011.6	1011.6	1016.9	1022.3	1025.0
10°	999.5	1002.2	1008.9	1016.9	1019.6
12.5°	986.1	988.8	998.2	1008.9	1012.9
15°	967.4	971.4	984.8	998.2	1003.6
17.5°	947.3	952.6	968.7	984.8	991.5
20°	925.8	931.2	951.3	970.1	978.1
22.5°	901.7	908.4	931.2	951.3	959.3
25°	874.9	883.0	905.7	928.5	939.2
27.5°	845.4	854.8	880.3	904.4	913.8
30°	814.6	825.4	850.8	876.3	885.6
32.5°	781.1	790.5	821.3	845.4	854.8
35°	747.6	757.0	786.5	813.3	822.7
37.5°	711.5	723.5	753.0	777.1	786.5
40°	673.9	686.0	714.1	742.3	750.3
42.5°	637.8	648.5	675.3	700.7	708.8
45°	600.3	609.6	636.4	659.2	671.3
47.5°	561.4	570.8	597.6	619.0	625.7
50°	522.5	531.9	554.7	573.5	581.5
52.5°	483.7	493.1	514.5	531.9	540.0
55°	444.8	451.5	471.6	487.7	494.4
57.5°	406.0	411.3	427.4	444.8	448.9
60°	365.8	372.5	387.2	399.3	404.6
62.5°	329.6	332.3	345.7	356.4	363.1
65°	292.1	293.4	302.8	314.9	317.5
67.5°	253.2	254.6	264.0	270.7	273.3
70°	217.1	217.1	223.8	229.1	231.8
72.5°	182.2	180.9	184.9	190.3	192.9
75°	146.0	146.0	150.1	152.7	154.1
77.5°	115.2	112.5	115.2	117.9	117.9
80°	84.4	83.1	83.1	84.4	83.1
82.5°	57.6	56.3	57.6	54.9	53.6
85°	32.2	30.8	29.5	26.8	26.8
87.5°	10.7	9.4	9.4	10.7	10.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)