

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: P298121

Luminaire Tested: **D3X-WD-40L92765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298121  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-40L92765-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3170.0 lumens  
Efficiency: N/A  
Efficacy: 98.4 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

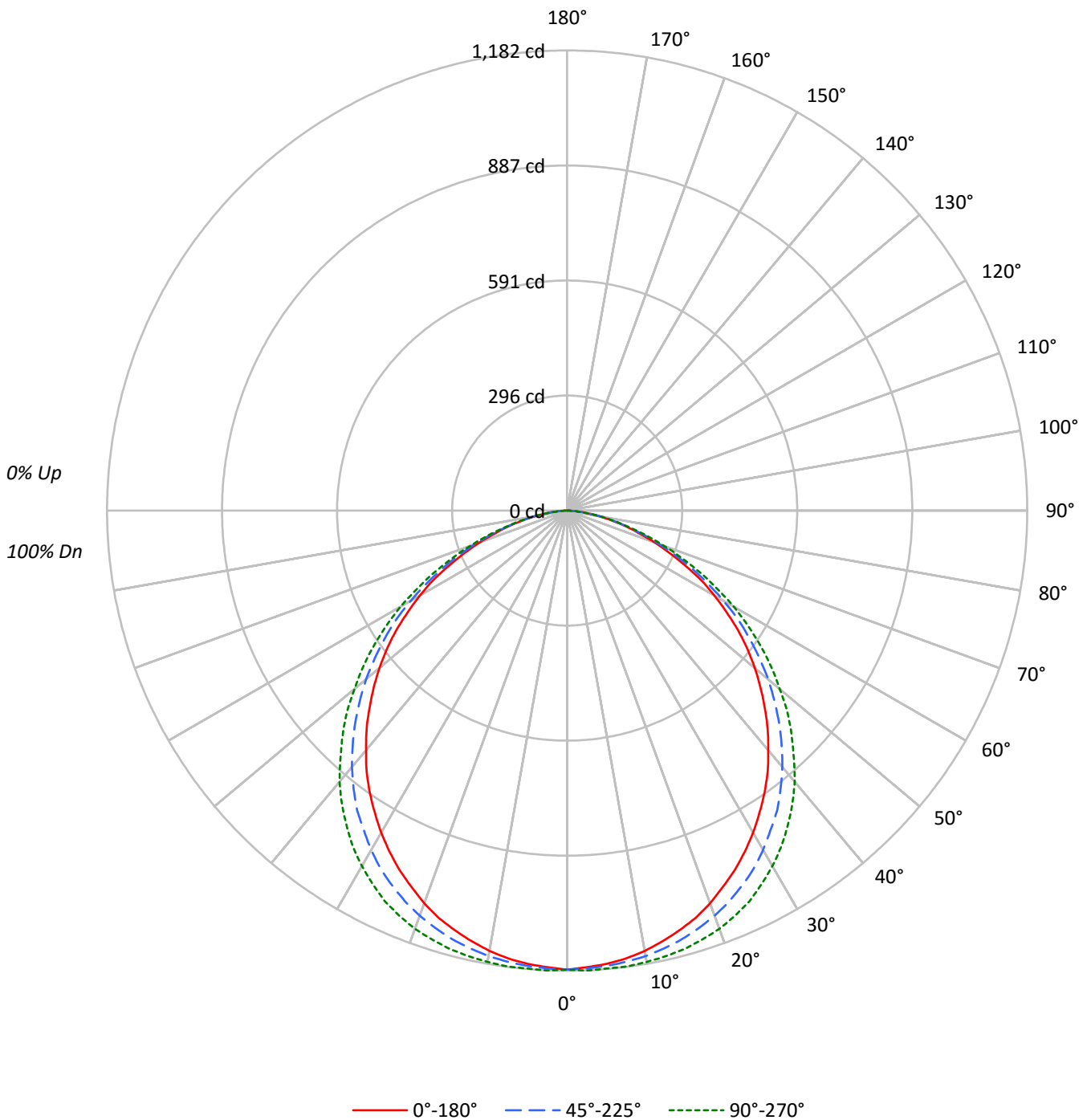
Input Watts (W): 32.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	3173	3173	3173
5°	3157	3171	3190
10°	3138	3175	3217
15°	3109	3175	3247
20°	3074	3171	3274
25°	3025	3156	3288
30°	2969	3128	3277
35°	2904	3089	3245
40°	2823	3021	3195
45°	2734	2928	3104
50°	2636	2822	2986
55°	2514	2682	2850
60°	2351	2498	2663
65°	2129	2260	2401
70°	1880	1973	2081
75°	1615	1650	1721
80°	1296	1322	1348
85°	948	843	843



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	3.5
10°-20°	321.9	10.2
20°-30°	489.6	15.4
30°-40°	585.7	18.5
40°-50°	592.1	18.7
50°-60°	509.6	16.1
60°-70°	351.8	11.1
70°-80°	170.6	5.4
80°-90°	37.0	1.2
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°	923.2	29.1
0°-40°	1508.9	47.6
0°-60°	2610.6	82.4
0°-90°	3170.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3170.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1179	1179	1179	1179	1179	
5°	1169	1170	1174	1179	1181	111
15°	1116	1123	1140	1157	1165	315
25°	1019	1031	1063	1095	1107	469
35°	884	899	940	974	988	552
45°	718	732	770	802	816	554
55°	536	544	572	597	607	478
65°	334	340	355	370	377	333
75°	155	152	159	164	166	165
85°	31	31	27	27	27	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1179.1	1179.1	1179.1	1179.1	1179.1
2.5°	1173.9	1173.9	1177.3	1180.8	1182.5
5°	1168.8	1170.5	1173.9	1179.1	1180.8
7.5°	1160.3	1162.0	1168.8	1177.3	1180.8
10°	1148.3	1151.8	1162.0	1172.2	1177.3
12.5°	1133.0	1139.8	1151.8	1165.4	1172.2
15°	1115.9	1122.7	1139.8	1156.9	1165.4
17.5°	1097.2	1104.0	1124.5	1146.6	1155.2
20°	1073.3	1083.5	1107.4	1133.0	1143.2
22.5°	1046.0	1059.6	1086.9	1114.2	1126.2
25°	1018.7	1030.6	1063.0	1095.4	1107.4
27.5°	987.9	1001.6	1037.4	1069.9	1081.8
30°	955.5	969.2	1006.7	1042.5	1054.5
32.5°	919.7	936.8	972.6	1010.1	1023.8
35°	883.9	899.2	940.2	974.3	987.9
37.5°	846.3	860.0	900.9	936.8	950.4
40°	803.7	819.0	860.0	895.8	909.5
42.5°	762.7	778.1	815.6	849.7	861.7
45°	718.4	732.0	769.5	802.0	815.6
47.5°	674.0	689.3	721.8	754.2	767.8
50°	629.6	641.6	674.0	704.7	713.2
52.5°	583.6	593.8	622.8	650.1	662.0
55°	535.8	544.3	571.6	597.2	607.4
57.5°	484.6	494.8	520.4	539.2	551.1
60°	436.8	441.9	464.1	482.9	494.8
62.5°	389.0	390.7	407.8	426.6	433.4
65°	334.4	339.6	354.9	370.3	377.1
67.5°	285.0	290.1	302.0	314.0	319.1
70°	238.9	238.9	250.8	259.4	264.5
72.5°	192.8	194.5	203.0	208.2	213.3
75°	155.3	151.9	158.7	163.8	165.5
77.5°	116.0	114.3	119.4	121.1	124.6
80°	83.6	83.6	85.3	87.0	87.0
82.5°	54.6	54.6	56.3	52.9	51.2
85°	30.7	30.7	27.3	27.3	27.3
87.5°	10.2	10.2	10.2	11.9	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)