

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: P298374

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298374  
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-40L82765-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3997.0 lumens  
Efficiency: N/A  
Efficacy: 123.0 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

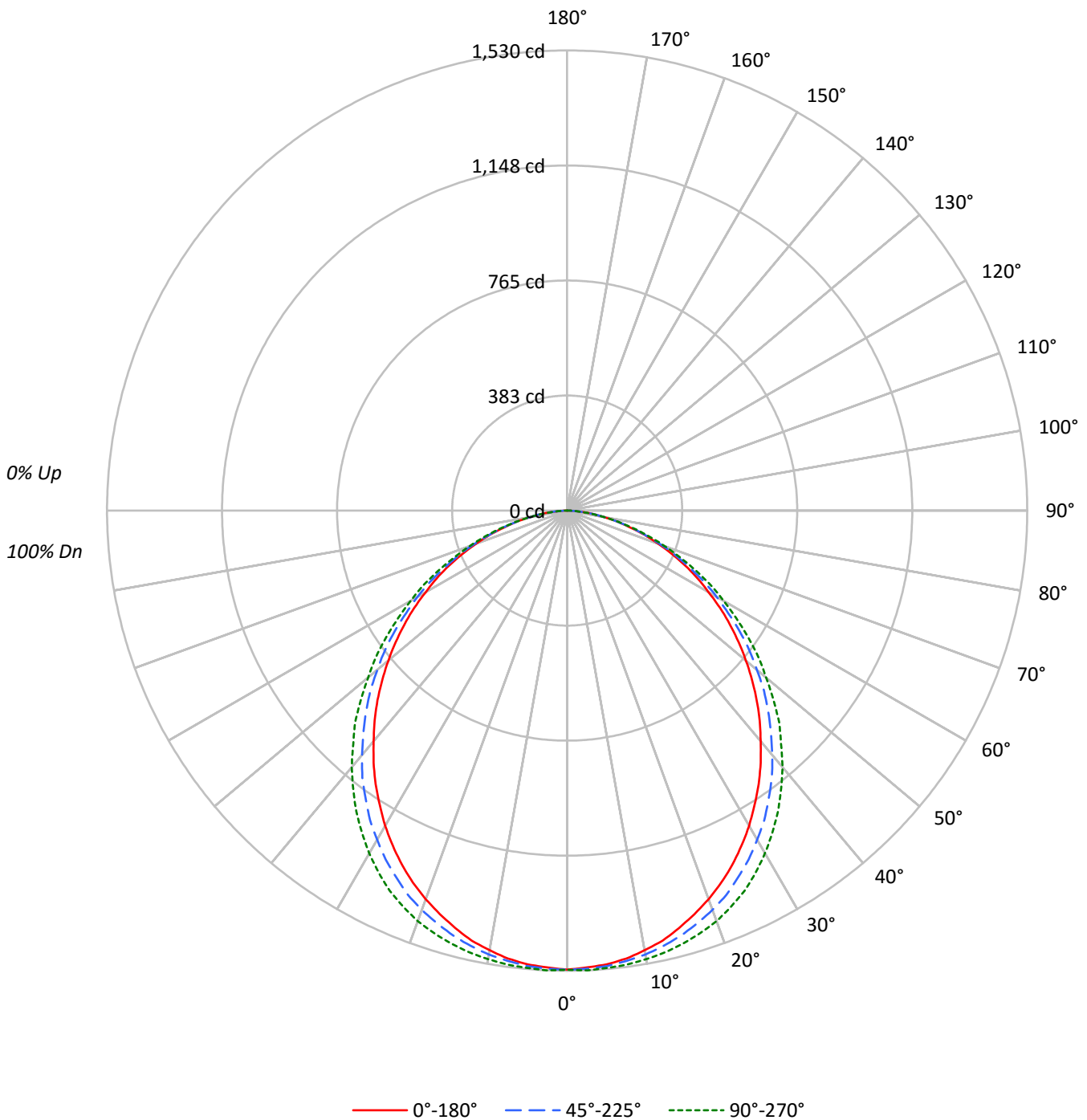
Input Watts (W): 32.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	4108	4108	4108
5°	4091	4107	4123
10°	4057	4095	4138
15°	4003	4075	4153
20°	3938	4046	4160
25°	3858	3994	4142
30°	3760	3927	4088
35°	3648	3838	4014
40°	3516	3726	3915
45°	3393	3597	3794
50°	3249	3449	3616
55°	3100	3286	3445
60°	2924	3095	3235
65°	2762	2864	3004
70°	2537	2615	2709
75°	2255	2318	2380
80°	1943	1912	1912
85°	1476	1352	1229



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	144.4	3.6
10°-20°	412.7	10.3
20°-30°	619.7	15.5
30°-40°	729.3	18.2
40°-50°	727.4	18.2
50°-60°	624.2	15.6
60°-70°	447.1	11.2
70°-80°	236.8	5.9
80°-90°	55.4	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°	1176.8	29.4
0°-40°	1906.1	47.7
0°-60°	3257.8	81.5
0°-90°	3997.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3997.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1526	1526	1526	1526	1526	
5°	1514	1514	1520	1524	1526	144
15°	1437	1443	1463	1483	1491	405
25°	1300	1312	1345	1379	1395	598
35°	1110	1124	1168	1208	1222	694
45°	892	906	945	979	997	687
55°	661	671	700	724	734	591
65°	434	436	450	468	472	428
75°	217	217	223	227	229	233
85°	48	46	44	40	40	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1526.4	1526.4	1526.4	1526.4	1526.4
2.5°	1520.4	1520.4	1524.4	1528.4	1530.4
5°	1514.5	1514.5	1520.4	1524.4	1526.4
7.5°	1502.5	1502.5	1510.5	1518.5	1522.4
10°	1484.6	1488.6	1498.6	1510.5	1514.5
12.5°	1464.7	1468.7	1482.6	1498.6	1504.5
15°	1436.9	1442.8	1462.7	1482.6	1490.6
17.5°	1407.0	1415.0	1438.9	1462.7	1472.7
20°	1375.2	1383.1	1413.0	1440.8	1452.8
22.5°	1339.3	1349.3	1383.1	1413.0	1424.9
25°	1299.5	1311.5	1345.3	1379.1	1395.1
27.5°	1255.8	1269.7	1307.5	1343.3	1357.3
30°	1210.0	1225.9	1263.7	1301.5	1315.5
32.5°	1160.2	1174.2	1219.9	1255.8	1269.7
35°	1110.5	1124.4	1168.2	1208.0	1221.9
37.5°	1056.8	1074.7	1118.4	1154.3	1168.2
40°	1001.0	1018.9	1060.7	1102.5	1114.5
42.5°	947.3	963.2	1003.0	1040.8	1052.8
45°	891.6	905.5	945.3	979.1	997.0
47.5°	833.9	847.8	887.6	919.4	929.4
50°	776.1	790.1	823.9	851.8	863.7
52.5°	718.4	732.4	764.2	790.1	802.0
55°	660.7	670.7	700.5	724.4	734.4
57.5°	603.0	611.0	634.8	660.7	666.7
60°	543.3	553.3	575.1	593.1	601.0
62.5°	489.6	493.5	513.4	529.4	539.3
65°	433.8	435.8	449.8	467.7	471.7
67.5°	376.1	378.1	392.1	402.0	406.0
70°	322.4	322.4	332.3	340.3	344.3
72.5°	270.7	268.7	274.6	282.6	286.6
75°	216.9	216.9	222.9	226.9	228.9
77.5°	171.1	167.2	171.1	175.1	175.1
80°	125.4	123.4	123.4	125.4	123.4
82.5°	85.6	83.6	85.6	81.6	79.6
85°	47.8	45.8	43.8	39.8	39.8
87.5°	15.9	13.9	13.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)