

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: P297422

Luminaire Tested: **D3X-WO-42L93050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297422  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-42L93050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (504) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3936.0 lumens  
Efficiency: N/A  
Efficacy: 129.9 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

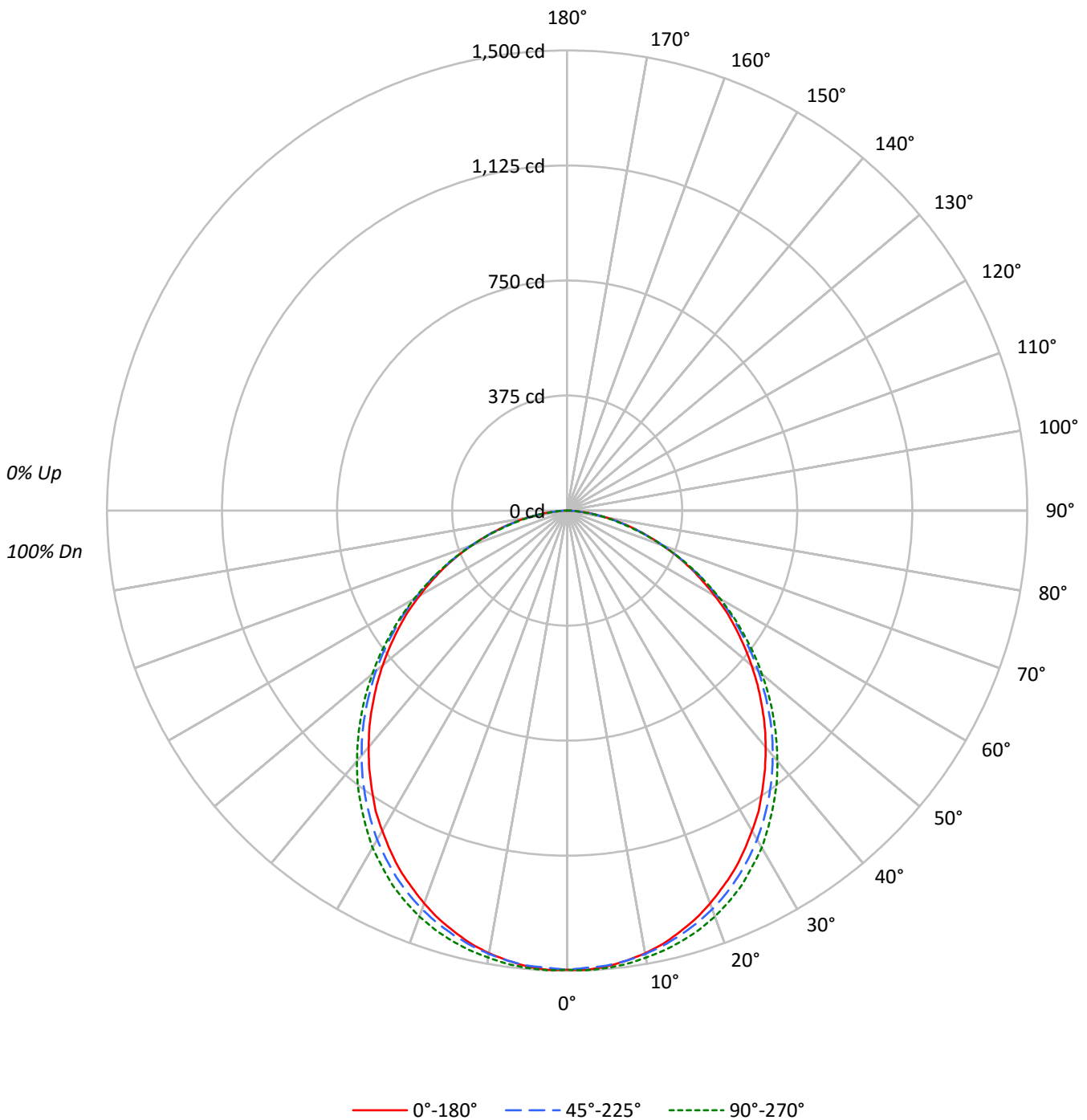
Input Watts (W): 30.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	2014	2014	2014
5°	2015	2011	2022
10°	2002	2005	2022
15°	1980	1995	2022
20°	1952	1980	2016
25°	1917	1957	2000
30°	1872	1924	1971
35°	1823	1882	1925
40°	1768	1831	1872
45°	1708	1771	1809
50°	1643	1704	1735
55°	1574	1624	1648
60°	1495	1534	1552
65°	1410	1431	1439
70°	1293	1309	1293
75°	1165	1158	1123
80°	986	976	945
85°	736	716	634



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	141.7	3.6
10°-20°	404.9	10.3
20°-30°	607.0	15.4
30°-40°	714.9	18.2
40°-50°	715.0	18.2
50°-60°	616.9	15.7
60°-70°	443.9	11.3
70°-80°	235.5	6.0
80°-90°	56.2	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°	1153.6	29.3
0°-40°	1868.5	47.5
0°-60°	3200.4	81.3
0°-90°	3936.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3936.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1497	1497	1497	1497	1497	
5°	1492	1490	1489	1494	1497	141
15°	1421	1425	1432	1446	1452	401
25°	1291	1299	1318	1340	1347	594
35°	1110	1123	1146	1166	1172	694
45°	898	910	931	947	951	692
55°	671	678	692	704	703	600
65°	443	444	450	452	452	438
75°	224	221	223	217	216	238
85°	48	48	46	42	41	58
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1496.9	1496.9	1496.9	1496.9	1496.9
2.5°	1498.3	1495.6	1491.6	1496.9	1499.6
5°	1491.6	1490.3	1489.0	1494.3	1496.9
7.5°	1479.7	1481.0	1479.7	1487.7	1490.3
10°	1465.1	1466.4	1467.8	1477.0	1479.7
12.5°	1446.5	1447.9	1451.9	1463.8	1467.8
15°	1421.4	1425.3	1432.0	1446.5	1451.9
17.5°	1394.8	1400.1	1409.4	1426.7	1432.0
20°	1363.0	1369.6	1382.9	1401.5	1408.1
22.5°	1327.2	1333.8	1352.4	1372.3	1378.9
25°	1291.4	1299.4	1317.9	1340.5	1347.1
27.5°	1249.0	1259.6	1279.5	1302.0	1307.3
30°	1205.2	1214.5	1238.4	1259.6	1268.9
32.5°	1161.5	1170.8	1193.3	1214.5	1221.1
35°	1109.8	1123.0	1145.6	1165.5	1172.1
37.5°	1059.4	1071.3	1095.2	1115.1	1121.7
40°	1006.4	1017.0	1042.2	1060.7	1066.0
42.5°	953.3	963.9	989.1	1003.7	1009.0
45°	897.6	909.6	930.8	946.7	950.7
47.5°	841.9	851.2	871.1	885.7	891.0
50°	784.9	794.2	814.1	826.0	828.7
52.5°	727.9	734.5	753.1	763.7	767.7
55°	670.9	677.5	692.1	704.0	702.7
57.5°	616.5	619.2	633.8	641.7	641.7
60°	555.5	558.2	570.1	575.4	576.8
62.5°	498.5	502.5	511.8	513.1	513.1
65°	442.8	444.2	449.5	452.1	452.1
67.5°	387.2	385.8	391.1	391.1	389.8
70°	328.8	331.5	332.8	330.1	328.8
72.5°	275.8	274.5	274.5	273.1	273.1
75°	224.1	221.4	222.8	217.4	216.1
77.5°	176.3	172.4	171.0	168.4	165.7
80°	127.3	127.3	126.0	123.3	122.0
82.5°	84.9	84.9	83.5	80.9	78.2
85°	47.7	47.7	46.4	42.4	41.1
87.5°	15.9	15.9	15.9	15.9	15.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)