

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: P296722

Luminaire Tested: **D3X-WD-42L83050-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296722  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-8)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-42L83050-LD5-UNV-24-T1-W2A-4500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4193.0 lumens  
Efficiency: N/A  
Efficacy: 137.5 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

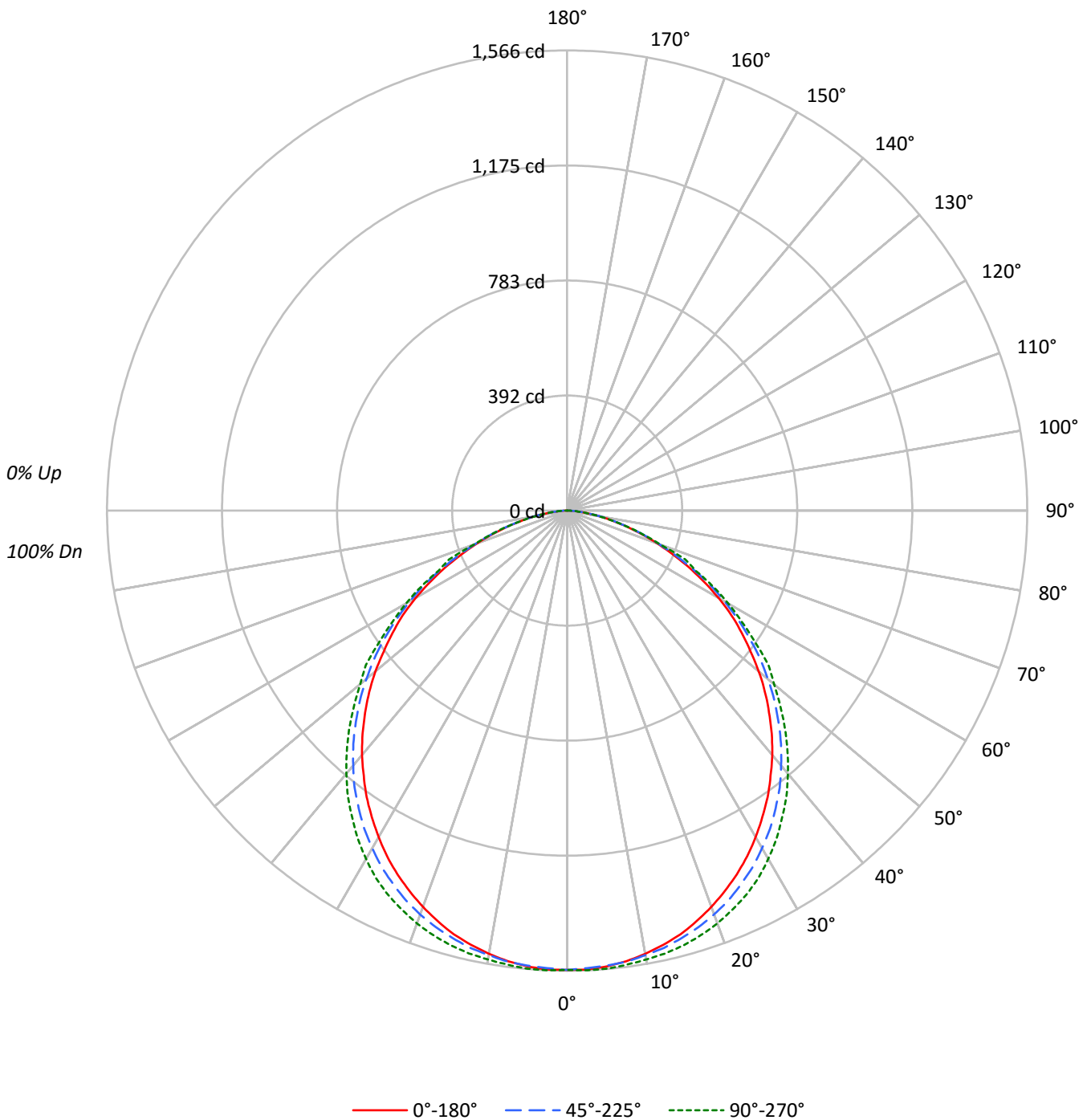
Input Watts (W): 30.5  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93		94	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	76	70	65		74	68	64		71	67	63	61
4	84	72	63	57	81	71	63	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	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°	2103	2103	2103
5°	2103	2099	2113
10°	2092	2099	2119
15°	2079	2098	2133
20°	2055	2094	2141
25°	2028	2082	2142
30°	1994	2062	2127
35°	1955	2031	2096
40°	1908	1990	2053
45°	1849	1935	1995
50°	1782	1867	1924
55°	1701	1779	1832
60°	1603	1664	1704
65°	1456	1504	1533
70°	1279	1308	1326
75°	1079	1095	1103
80°	862	874	851
85°	580	604	580



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	148.1	3.5
10°-20°	426.0	10.2
20°-30°	646.4	15.4
30°-40°	771.7	18.4
40°-50°	781.2	18.6
50°-60°	675.3	16.1
60°-70°	468.0	11.2
70°-80°	226.5	5.4
80°-90°	49.8	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°	1220.5	29.1
0°-40°	1992.2	47.5
0°-60°	3448.7	82.2
0°-90°	4193.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4193.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1563	1563	1563	1563	1563	
5°	1557	1556	1554	1562	1565	148
15°	1492	1495	1506	1524	1532	421
25°	1366	1375	1402	1431	1443	629
35°	1190	1200	1237	1268	1276	743
45°	972	985	1017	1043	1049	750
55°	725	733	758	790	781	648
65°	457	462	472	480	481	453
75°	208	209	211	209	212	223
85°	38	41	39	38	38	49
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1563.1	1563.1	1563.1	1563.1	1563.1
2.5°	1563.1	1561.6	1558.6	1563.1	1566.1
5°	1557.1	1555.6	1554.1	1561.6	1564.6
7.5°	1546.6	1546.6	1548.1	1555.6	1558.6
10°	1531.5	1533.0	1536.0	1548.1	1551.1
12.5°	1513.5	1516.5	1524.0	1537.5	1543.6
15°	1492.4	1495.4	1506.0	1524.0	1531.5
17.5°	1465.3	1471.3	1486.4	1507.5	1515.0
20°	1435.2	1442.8	1462.3	1486.4	1495.4
22.5°	1402.1	1409.7	1435.2	1460.8	1469.8
25°	1366.0	1375.1	1402.1	1430.7	1442.8
27.5°	1326.9	1337.5	1367.5	1397.6	1409.7
30°	1283.3	1295.3	1326.9	1358.5	1369.0
32.5°	1236.7	1248.7	1284.8	1314.9	1325.4
35°	1190.0	1200.5	1236.7	1268.2	1275.8
37.5°	1137.4	1149.4	1188.5	1215.6	1226.1
40°	1086.2	1098.2	1132.8	1159.9	1169.0
42.5°	1030.5	1042.6	1077.2	1102.8	1110.3
45°	971.9	985.4	1017.0	1042.6	1048.6
47.5°	913.2	923.7	956.8	979.4	983.9
50°	851.5	862.0	892.1	914.7	919.2
52.5°	786.8	803.4	827.4	844.0	863.6
55°	725.1	732.7	758.2	789.8	780.8
57.5°	663.5	668.0	689.0	702.6	705.6
60°	595.8	601.8	618.3	625.8	633.4
62.5°	525.1	529.6	549.1	556.6	559.7
65°	457.4	461.9	472.4	479.9	481.4
67.5°	388.1	392.7	401.7	407.7	434.8
70°	325.0	328.0	332.5	344.5	337.0
72.5°	264.8	266.3	270.8	270.8	272.3
75°	207.6	209.1	210.6	209.1	212.1
77.5°	155.0	158.0	159.5	158.0	156.5
80°	111.3	114.3	112.8	109.8	109.8
82.5°	72.2	73.7	72.2	70.7	70.7
85°	37.6	40.6	39.1	37.6	37.6
87.5°	13.5	15.0	16.5	18.1	18.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)