

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: P296728

Luminaire Tested: **D3X-WD-45L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296728  
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-45L83050-LD5-UNV-24-T1-W2A-5000K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4524.0 lumens  
Efficiency: N/A  
Efficacy: 136.7 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

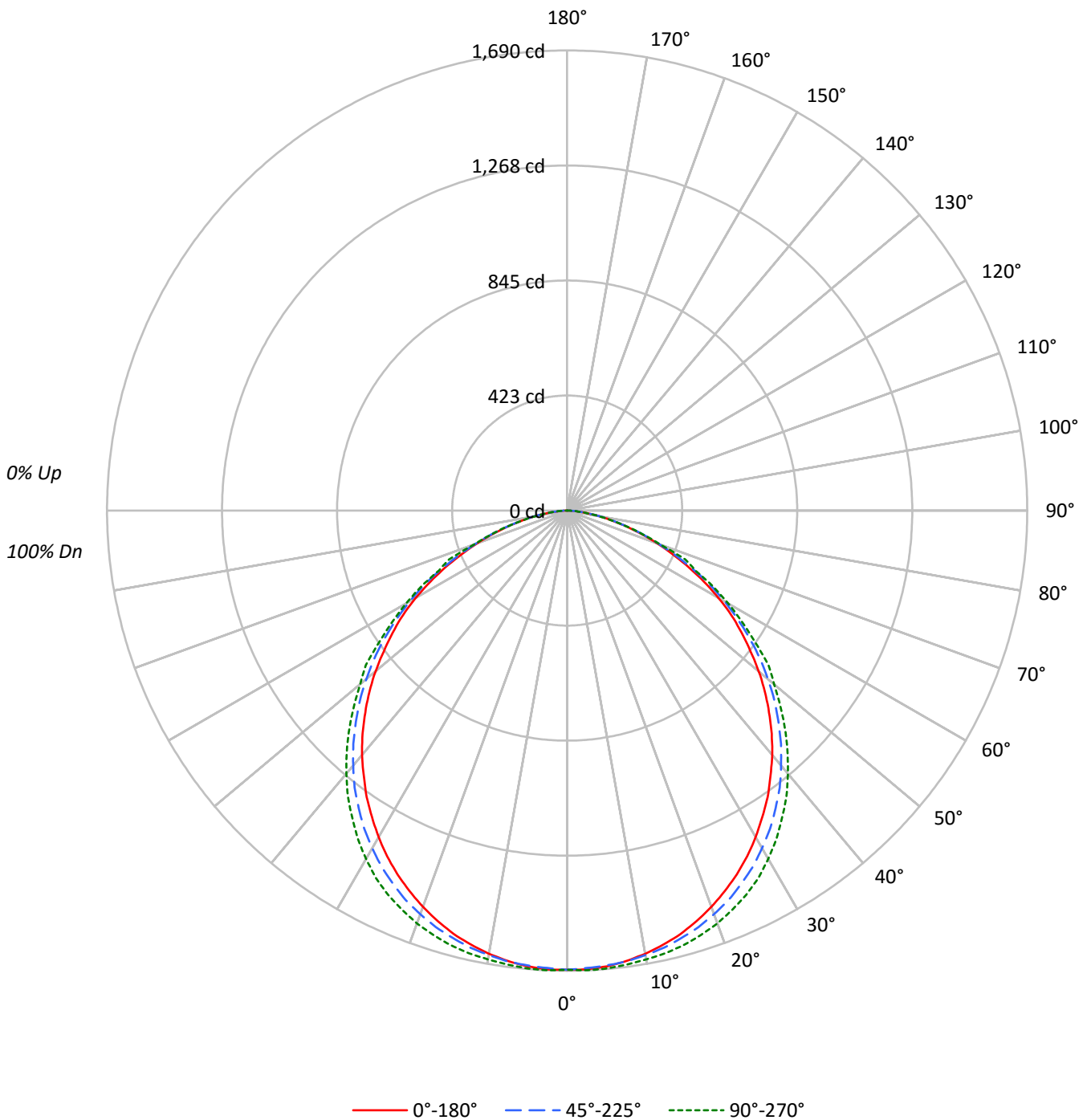
Input Watts (W): 33.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2269	2269	2269
5°	2269	2265	2280
10°	2258	2264	2286
15°	2243	2263	2302
20°	2217	2259	2310
25°	2188	2246	2311
30°	2151	2224	2295
35°	2109	2192	2261
40°	2059	2147	2215
45°	1995	2088	2153
50°	1923	2015	2076
55°	1835	1919	1976
60°	1730	1795	1839
65°	1571	1623	1654
70°	1379	1411	1430
75°	1164	1181	1190
80°	931	943	918
85°	627	651	627



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	159.8	3.5
10°-20°	459.6	10.2
20°-30°	697.4	15.4
30°-40°	832.6	18.4
40°-50°	842.9	18.6
50°-60°	728.6	16.1
60°-70°	505.0	11.2
70°-80°	244.3	5.4
80°-90°	53.7	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°	1316.9	29.1
0°-40°	2149.4	47.5
0°-60°	3721.0	82.2
0°-90°	4524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4524.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1686	1686	1686	1686	1686	
5°	1680	1678	1677	1685	1688	159
15°	1610	1614	1625	1644	1652	454
25°	1474	1484	1513	1544	1557	679
35°	1284	1295	1334	1368	1376	802
45°	1049	1063	1097	1125	1131	809
55°	782	790	818	852	842	699
65°	494	498	510	518	519	488
75°	224	226	227	226	229	240
85°	41	44	42	41	41	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1686.5	1686.5	1686.5	1686.5	1686.5
2.5°	1686.5	1684.9	1681.6	1686.5	1689.8
5°	1680.0	1678.4	1676.8	1684.9	1688.1
7.5°	1668.7	1668.7	1670.3	1678.4	1681.6
10°	1652.4	1654.1	1657.3	1670.3	1673.5
12.5°	1632.9	1636.2	1644.3	1658.9	1665.4
15°	1610.2	1613.5	1624.8	1644.3	1652.4
17.5°	1581.0	1587.5	1603.7	1626.5	1634.6
20°	1548.5	1556.7	1577.8	1603.7	1613.5
22.5°	1512.8	1520.9	1548.5	1576.1	1585.9
25°	1473.9	1483.6	1512.8	1543.7	1556.7
27.5°	1431.7	1443.0	1475.5	1508.0	1520.9
30°	1384.6	1397.6	1431.7	1465.8	1477.1
32.5°	1334.3	1347.3	1386.2	1418.7	1430.0
35°	1284.0	1295.3	1334.3	1368.4	1376.5
37.5°	1227.1	1240.1	1282.3	1311.6	1322.9
40°	1172.0	1184.9	1222.3	1251.5	1261.2
42.5°	1111.9	1124.9	1162.2	1189.8	1197.9
45°	1048.6	1063.2	1097.3	1124.9	1131.4
47.5°	985.3	996.7	1032.4	1056.7	1061.6
50°	918.7	930.1	962.6	986.9	991.8
52.5°	848.9	866.8	892.8	910.6	931.7
55°	782.4	790.5	818.1	852.2	842.4
57.5°	715.8	720.7	743.4	758.0	761.3
60°	642.8	649.3	667.1	675.3	683.4
62.5°	566.5	571.4	592.5	600.6	603.8
65°	493.5	498.3	509.7	517.8	519.4
67.5°	418.8	423.7	433.4	439.9	469.1
70°	350.6	353.9	358.7	371.7	363.6
72.5°	285.7	287.3	292.2	292.2	293.8
75°	224.0	225.6	227.2	225.6	228.9
77.5°	167.2	170.4	172.1	170.4	168.8
80°	120.1	123.4	121.7	118.5	118.5
82.5°	77.9	79.5	77.9	76.3	76.3
85°	40.6	43.8	42.2	40.6	40.6
87.5°	14.6	16.2	17.9	19.5	19.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)