

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: P296730

Luminaire Tested: **D3X-WD-50L83050-LD5-UNV-24-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296730  
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-50L83050-LD5-UNV-24-T1-W2A-3500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4685.0 lumens  
Efficiency: N/A  
Efficacy: 133.9 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

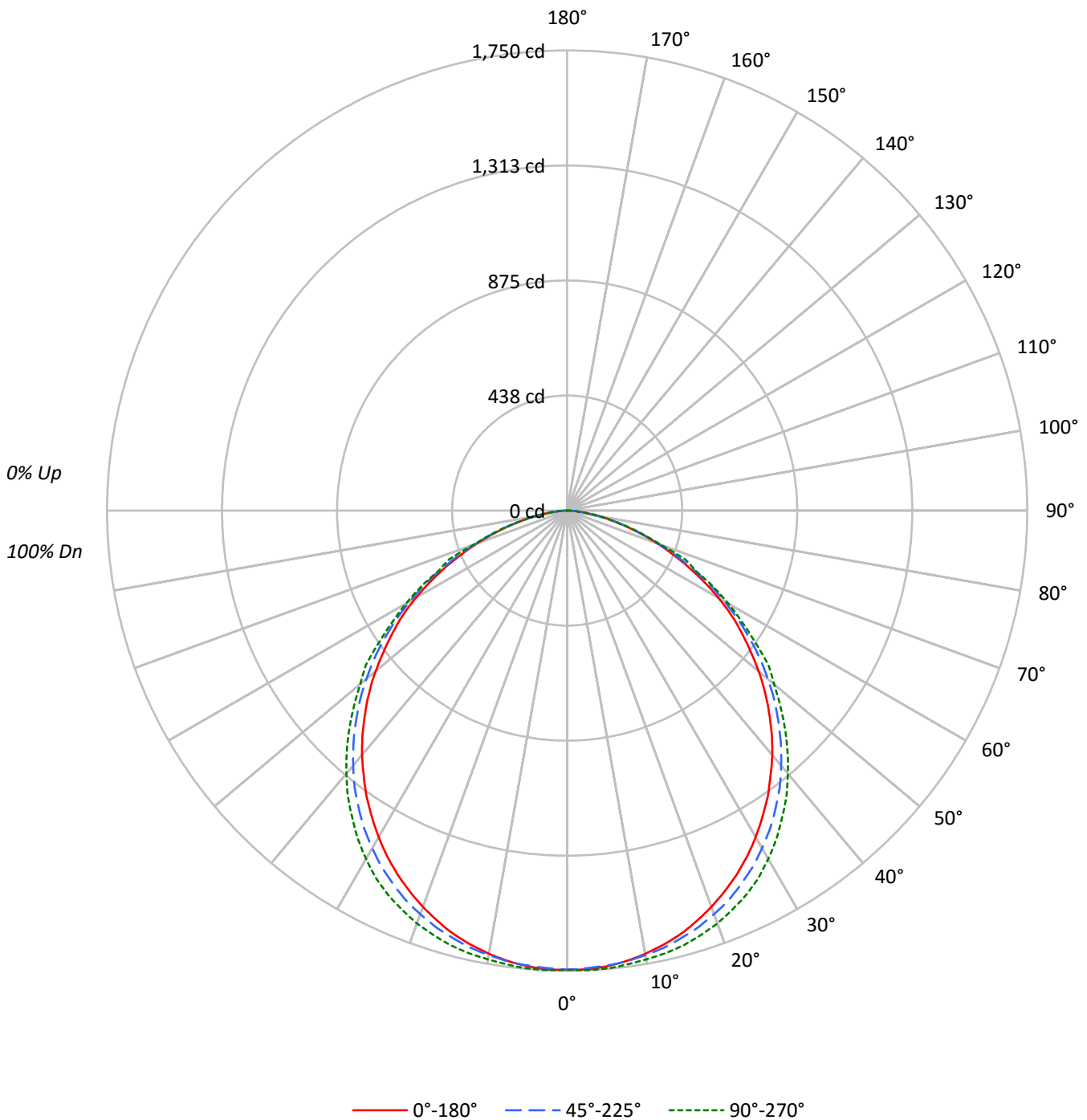
Input Watts (W): 35  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2350	2350	2350
5°	2350	2345	2361
10°	2338	2345	2368
15°	2323	2344	2384
20°	2296	2339	2392
25°	2266	2326	2393
30°	2228	2303	2377
35°	2184	2270	2341
40°	2132	2223	2294
45°	2066	2162	2229
50°	1991	2087	2150
55°	1901	1987	2046
60°	1791	1859	1904
65°	1627	1680	1713
70°	1428	1461	1481
75°	1206	1223	1232
80°	964	977	951
85°	648	675	648



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	3.5
10°-20°	476.0	10.2
20°-30°	722.2	15.4
30°-40°	862.2	18.4
40°-50°	872.9	18.6
50°-60°	754.5	16.1
60°-70°	523.0	11.2
70°-80°	253.0	5.4
80°-90°	55.6	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°	1363.7	29.1
0°-40°	2225.9	47.5
0°-60°	3853.4	82.2
0°-90°	4685.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1740	1738	1736	1745	1748	165
15°	1668	1671	1683	1703	1711	470
25°	1526	1536	1567	1599	1612	703
35°	1330	1341	1382	1417	1426	831
45°	1086	1101	1136	1165	1172	838
55°	810	819	847	882	872	724
65°	511	516	528	536	538	506
75°	232	234	235	234	237	249
85°	42	45	44	42	42	54
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1746.5	1746.5	1746.5	1746.5	1746.5
2.5°	1746.5	1744.9	1741.5	1746.5	1749.9
5°	1739.8	1738.1	1736.4	1744.9	1748.2
7.5°	1728.0	1728.0	1729.7	1738.1	1741.5
10°	1711.2	1712.9	1716.3	1729.7	1733.1
12.5°	1691.1	1694.4	1702.8	1718.0	1724.7
15°	1667.5	1670.9	1682.7	1702.8	1711.2
17.5°	1637.3	1644.0	1660.8	1684.3	1692.7
20°	1603.7	1612.1	1633.9	1660.8	1670.9
22.5°	1566.7	1575.1	1603.7	1632.2	1642.3
25°	1526.3	1536.4	1566.7	1598.6	1612.1
27.5°	1482.6	1494.4	1528.0	1561.6	1575.1
30°	1433.9	1447.3	1482.6	1517.9	1529.7
32.5°	1381.8	1395.2	1435.6	1469.2	1480.9
35°	1329.7	1341.4	1381.8	1417.1	1425.5
37.5°	1270.8	1284.3	1328.0	1358.2	1370.0
40°	1213.7	1227.1	1265.8	1296.0	1306.1
42.5°	1151.5	1164.9	1203.6	1232.2	1240.6
45°	1085.9	1101.0	1136.3	1164.9	1171.6
47.5°	1020.4	1032.1	1069.1	1094.3	1099.4
50°	951.4	963.2	996.8	1022.0	1027.1
52.5°	879.2	897.6	924.5	943.0	964.9
55°	810.2	818.6	847.2	882.5	872.4
57.5°	741.3	746.4	769.9	785.0	788.4
60°	665.7	672.4	690.9	699.3	707.7
62.5°	586.7	591.7	613.6	622.0	625.3
65°	511.0	516.1	527.8	536.2	537.9
67.5°	433.7	438.7	448.8	455.5	485.8
70°	363.1	366.5	371.5	384.9	376.5
72.5°	295.9	297.5	302.6	302.6	304.3
75°	232.0	233.7	235.3	233.7	237.0
77.5°	173.1	176.5	178.2	176.5	174.8
80°	124.4	127.8	126.1	122.7	122.7
82.5°	80.7	82.4	80.7	79.0	79.0
85°	42.0	45.4	43.7	42.0	42.0
87.5°	15.1	16.8	18.5	20.2	20.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)