

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: P296718

Luminaire Tested: **D3X-WD-36L83050-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296718  
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-36L83050-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: 3655.0 lumens  
Efficiency: N/A  
Efficacy: 138.4 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

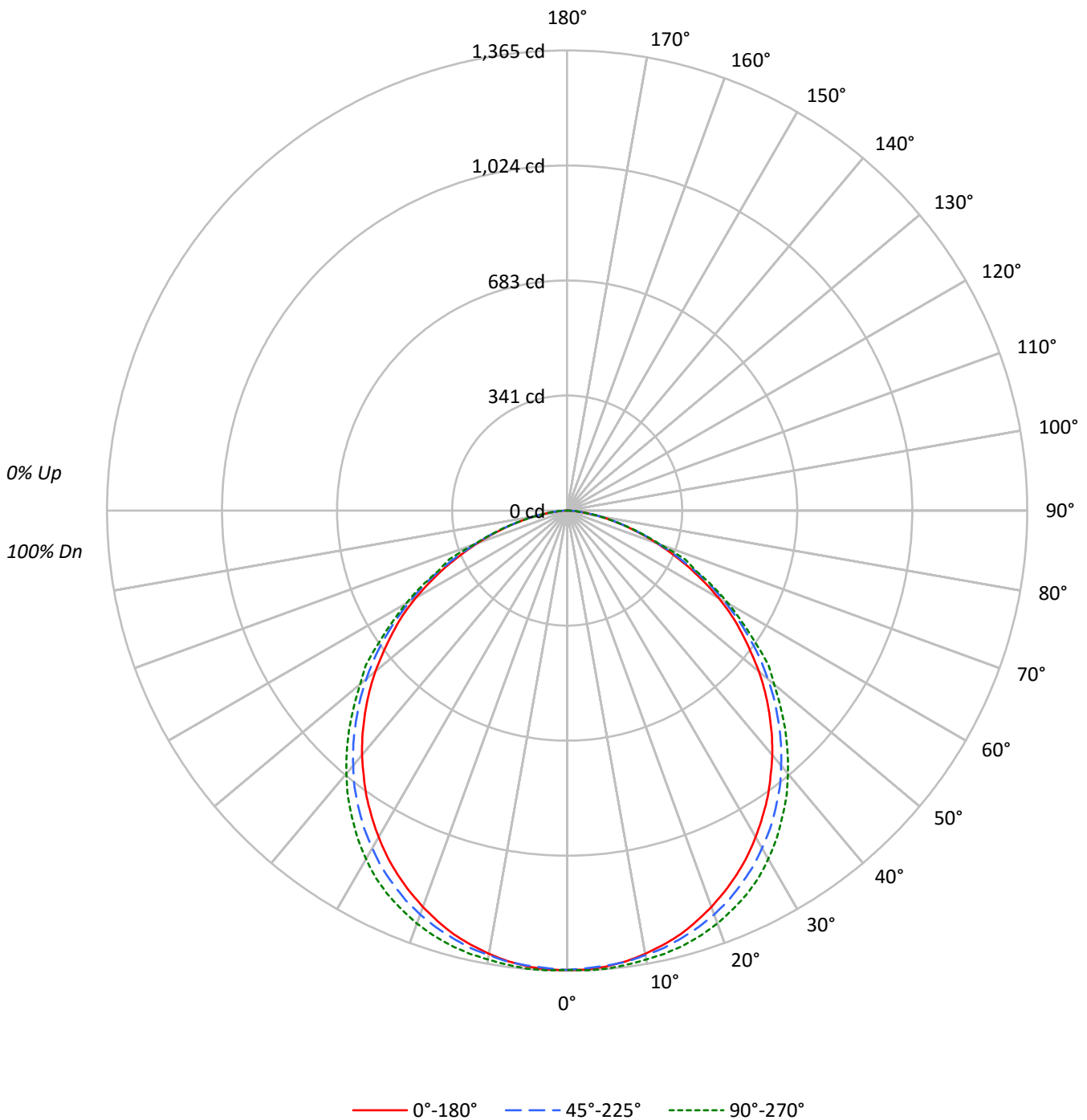
Input Watts (W): 26.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1833	1833	1833
5°	1833	1830	1842
10°	1824	1829	1847
15°	1812	1829	1860
20°	1791	1825	1866
25°	1768	1814	1867
30°	1738	1797	1854
35°	1704	1771	1827
40°	1663	1734	1790
45°	1612	1687	1739
50°	1554	1628	1677
55°	1483	1551	1597
60°	1397	1450	1486
65°	1269	1311	1336
70°	1114	1140	1156
75°	941	954	961
80°	752	762	742
85°	506	526	506



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	129.1	3.5
10°-20°	371.3	10.2
20°-30°	563.4	15.4
30°-40°	672.7	18.4
40°-50°	681.0	18.6
50°-60°	588.7	16.1
60°-70°	408.0	11.2
70°-80°	197.4	5.4
80°-90°	43.4	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°	1063.9	29.1
0°-40°	1736.6	47.5
0°-60°	3006.2	82.2
0°-90°	3655.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1357	1356	1355	1361	1364	129
15°	1301	1304	1313	1328	1335	367
25°	1191	1199	1222	1247	1258	548
35°	1037	1046	1078	1106	1112	648
45°	847	859	886	909	914	653
55°	632	639	661	688	681	565
65°	399	403	412	418	420	395
75°	181	182	184	182	185	194
85°	33	35	34	33	33	42
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1362.6	1362.6	1362.6	1362.6	1362.6
2.5°	1362.6	1361.2	1358.6	1362.6	1365.2
5°	1357.3	1356.0	1354.7	1361.2	1363.9
7.5°	1348.1	1348.1	1349.4	1356.0	1358.6
10°	1335.0	1336.3	1339.0	1349.4	1352.1
12.5°	1319.3	1321.9	1328.5	1340.3	1345.5
15°	1300.9	1303.5	1312.7	1328.5	1335.0
17.5°	1277.3	1282.6	1295.7	1314.0	1320.6
20°	1251.1	1257.6	1274.7	1295.7	1303.5
22.5°	1222.2	1228.8	1251.1	1273.4	1281.3
25°	1190.8	1198.6	1222.2	1247.2	1257.6
27.5°	1156.7	1165.8	1192.1	1218.3	1228.8
30°	1118.6	1129.1	1156.7	1184.2	1193.4
32.5°	1078.0	1088.5	1119.9	1146.2	1155.4
35°	1037.3	1046.5	1078.0	1105.5	1112.1
37.5°	991.4	1001.9	1036.0	1059.6	1068.8
40°	946.8	957.3	987.5	1011.1	1019.0
42.5°	898.3	908.8	939.0	961.3	967.8
45°	847.2	859.0	886.5	908.8	914.1
47.5°	796.0	805.2	834.1	853.7	857.7
50°	742.3	751.4	777.7	797.3	801.3
52.5°	685.9	700.3	721.3	735.7	752.8
55°	632.1	638.7	661.0	688.5	680.6
57.5°	578.3	582.3	600.6	612.4	615.1
60°	519.3	524.6	539.0	545.5	552.1
62.5°	457.7	461.6	478.7	485.2	487.8
65°	398.7	402.6	411.8	418.3	419.7
67.5°	338.3	342.3	350.1	355.4	379.0
70°	283.3	285.9	289.8	300.3	293.8
72.5°	230.8	232.1	236.1	236.1	237.4
75°	181.0	182.3	183.6	182.3	184.9
77.5°	135.1	137.7	139.0	137.7	136.4
80°	97.0	99.7	98.4	95.7	95.7
82.5°	62.9	64.3	62.9	61.6	61.6
85°	32.8	35.4	34.1	32.8	32.8
87.5°	11.8	13.1	14.4	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)