

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: P296773

Luminaire Tested: **D3X-WD-36L82765-LD5-UNV-24-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P296773  
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-36L82765-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: 3550.0 lumens  
Efficiency: N/A  
Efficacy: 137.6 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

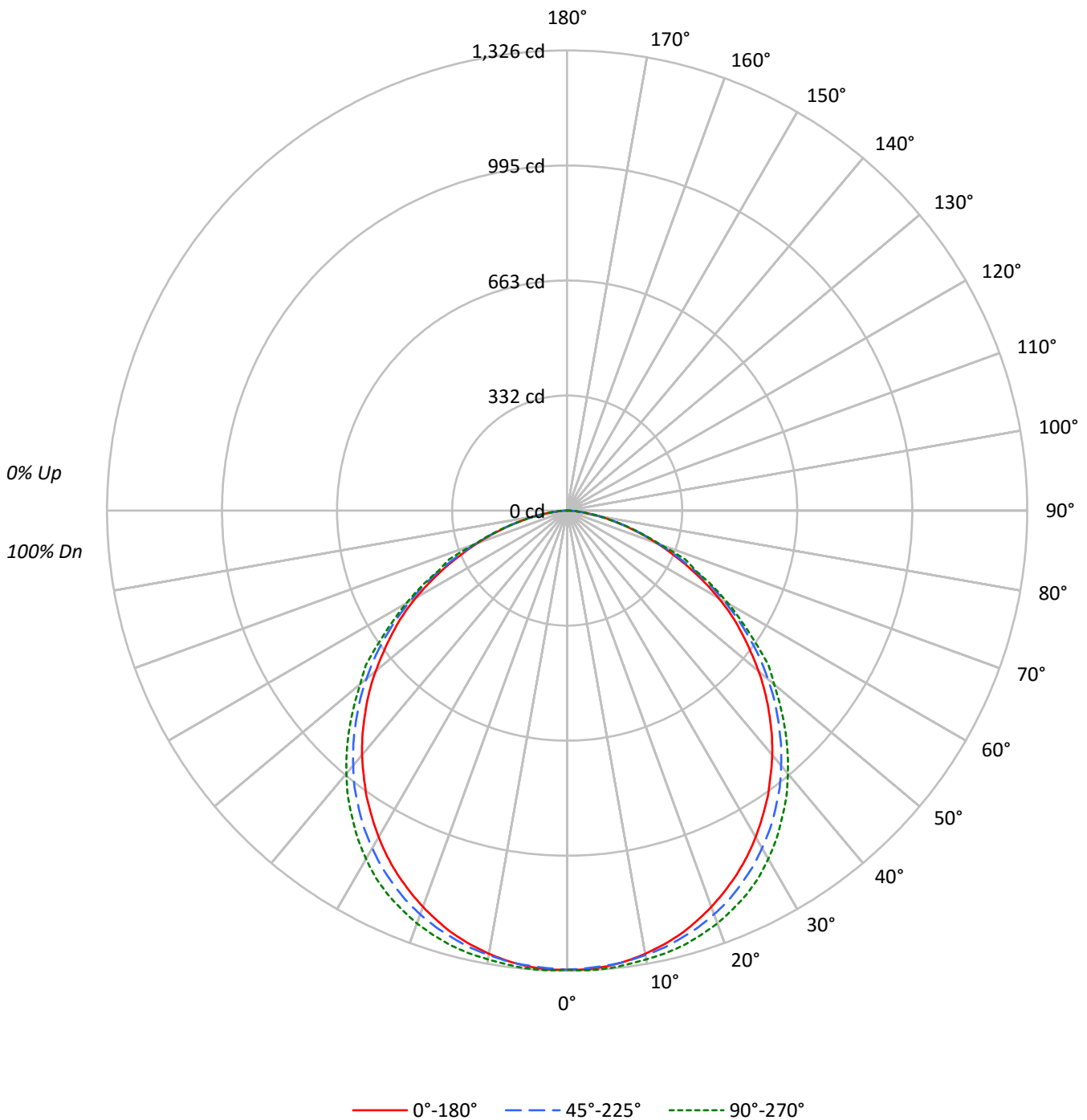
Input Watts (W): 25.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1781	1781	1781
5°	1781	1777	1789
10°	1772	1777	1794
15°	1760	1776	1806
20°	1740	1773	1813
25°	1717	1762	1813
30°	1688	1745	1801
35°	1655	1720	1774
40°	1615	1685	1738
45°	1566	1638	1689
50°	1509	1581	1629
55°	1440	1506	1551
60°	1357	1409	1443
65°	1233	1273	1298
70°	1082	1107	1122
75°	914	927	934
80°	731	740	721
85°	491	511	491



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.4	3.5
10°-20°	360.7	10.2
20°-30°	547.2	15.4
30°-40°	653.3	18.4
40°-50°	661.4	18.6
50°-60°	571.7	16.1
60°-70°	396.3	11.2
70°-80°	191.7	5.4
80°-90°	42.1	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°	1033.3	29.1
0°-40°	1686.7	47.5
0°-60°	2919.9	82.2
0°-90°	3550.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3550.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1323	1323	1323	1323	1323	
5°	1318	1317	1316	1322	1325	125
15°	1264	1266	1275	1290	1297	356
25°	1157	1164	1187	1211	1222	533
35°	1008	1016	1047	1074	1080	629
45°	823	834	861	883	888	635
55°	614	620	642	669	661	549
65°	387	391	400	406	408	383
75°	176	177	178	177	180	189
85°	32	34	33	32	32	41
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1323.4	1323.4	1323.4	1323.4	1323.4
2.5°	1323.4	1322.1	1319.6	1323.4	1326.0
5°	1318.3	1317.0	1315.8	1322.1	1324.7
7.5°	1309.4	1309.4	1310.7	1317.0	1319.6
10°	1296.7	1297.9	1300.5	1310.7	1313.2
12.5°	1281.4	1283.9	1290.3	1301.8	1306.9
15°	1263.5	1266.1	1275.0	1290.3	1296.7
17.5°	1240.6	1245.7	1258.5	1276.3	1282.7
20°	1215.1	1221.5	1238.1	1258.5	1266.1
22.5°	1187.1	1193.5	1215.1	1236.8	1244.4
25°	1156.6	1164.2	1187.1	1211.3	1221.5
27.5°	1123.4	1132.4	1157.8	1183.3	1193.5
30°	1086.5	1096.7	1123.4	1150.2	1159.1
32.5°	1047.0	1057.2	1087.8	1113.2	1122.2
35°	1007.5	1016.4	1047.0	1073.8	1080.1
37.5°	962.9	973.1	1006.3	1029.2	1038.1
40°	919.6	929.8	959.1	982.1	989.7
42.5°	872.5	882.7	912.0	933.7	940.0
45°	822.8	834.3	861.0	882.7	887.8
47.5°	773.2	782.1	810.1	829.2	833.0
50°	720.9	729.9	755.3	774.4	778.3
52.5°	666.2	680.2	700.6	714.6	731.1
55°	613.9	620.3	642.0	668.7	661.1
57.5°	561.7	565.5	583.4	594.8	597.4
60°	504.4	509.5	523.5	529.9	536.2
62.5°	444.5	448.4	464.9	471.3	473.8
65°	387.2	391.0	400.0	406.3	407.6
67.5°	328.6	332.4	340.1	345.2	368.1
70°	275.1	277.7	281.5	291.7	285.3
72.5°	224.2	225.5	229.3	229.3	230.5
75°	175.8	177.0	178.3	177.0	179.6
77.5°	131.2	133.7	135.0	133.7	132.5
80°	94.3	96.8	95.5	93.0	93.0
82.5°	61.1	62.4	61.1	59.9	59.9
85°	31.8	34.4	33.1	31.8	31.8
87.5°	11.5	12.7	14.0	15.3	15.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)