

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: P296765

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296765
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-31L82765-LD5-UNV-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3026.0 lumens
Efficiency: N/A
Efficacy: 138.8 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

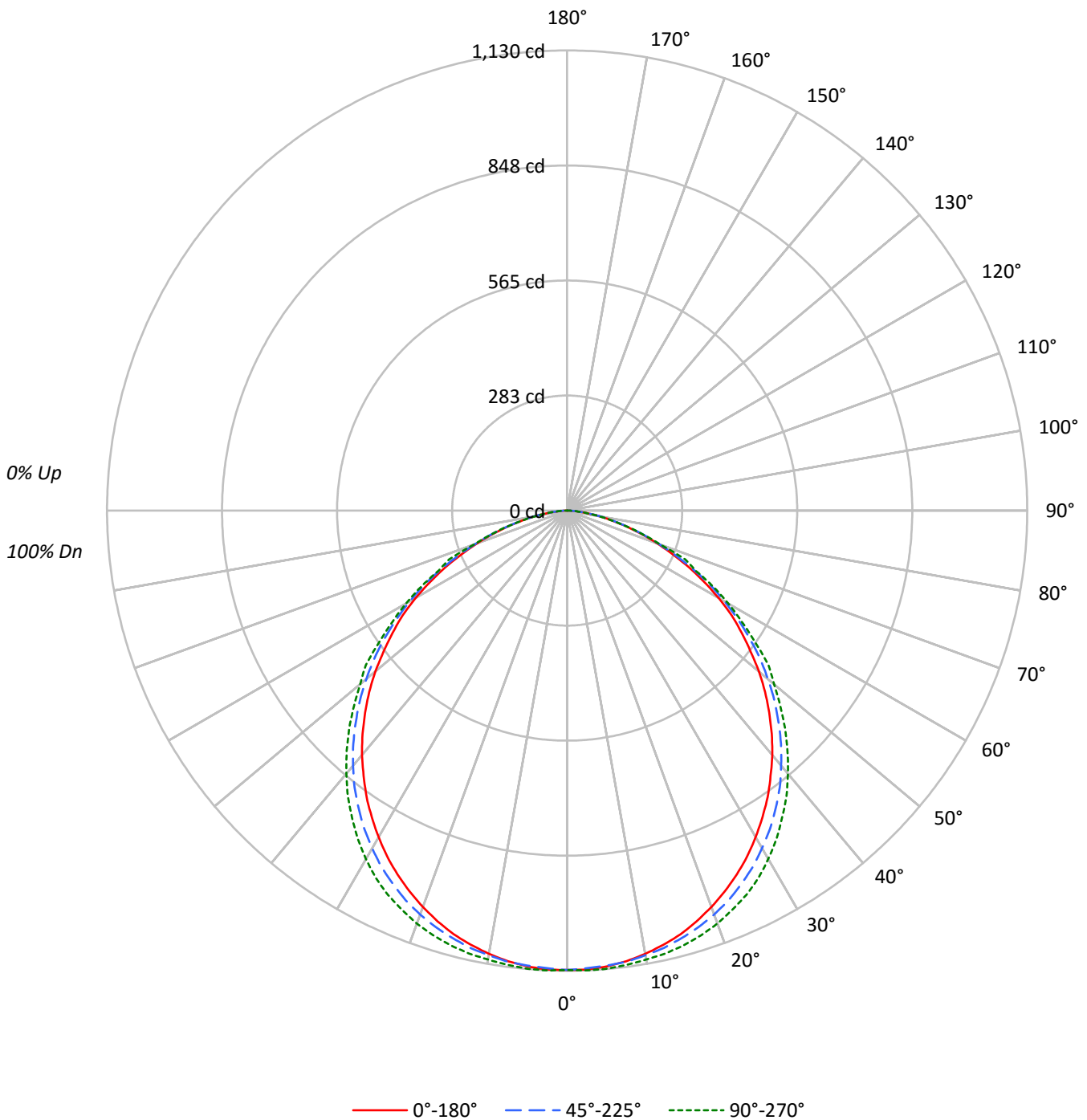
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1518	1518	1518
5°	1518	1515	1525
10°	1510	1514	1529
15°	1500	1514	1540
20°	1483	1511	1545
25°	1464	1502	1546
30°	1439	1488	1535
35°	1411	1466	1512
40°	1377	1436	1482
45°	1335	1397	1440
50°	1286	1348	1389
55°	1228	1284	1322
60°	1157	1201	1230
65°	1051	1085	1106
70°	923	944	957
75°	779	790	796
80°	622	631	614
85°	418	435	418



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.9	3.5
10°-20°	307.4	10.2
20°-30°	466.5	15.4
30°-40°	556.9	18.4
40°-50°	563.8	18.6
50°-60°	487.3	16.1
60°-70°	337.8	11.2
70°-80°	163.4	5.4
80°-90°	35.9	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°	880.8	29.1
0°-40°	1437.7	47.5
0°-60°	2488.9	82.3
0°-90°	3026.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3026.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1128	1128	1128	1128	1128	
5°	1124	1123	1122	1127	1129	107
15°	1077	1079	1087	1100	1105	304
25°	986	992	1012	1032	1041	454
35°	859	866	892	915	921	536
45°	701	711	734	752	757	541
55°	523	529	547	570	564	468
65°	330	333	341	346	347	327
75°	150	151	152	151	153	161
85°	27	29	28	27	27	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1128.1	1128.1	1128.1	1128.1	1128.1
2.5°	1128.1	1127.0	1124.8	1128.1	1130.2
5°	1123.7	1122.6	1121.6	1127.0	1129.2
7.5°	1116.1	1116.1	1117.2	1122.6	1124.8
10°	1105.3	1106.4	1108.5	1117.2	1119.4
12.5°	1092.2	1094.4	1099.8	1109.6	1114.0
15°	1077.0	1079.2	1086.8	1099.8	1105.3
17.5°	1057.5	1061.8	1072.7	1087.9	1093.3
20°	1035.8	1041.2	1055.3	1072.7	1079.2
22.5°	1011.9	1017.3	1035.8	1054.2	1060.8
25°	985.8	992.4	1011.9	1032.5	1041.2
27.5°	957.6	965.2	986.9	1008.6	1017.3
30°	926.1	934.8	957.6	980.4	988.0
32.5°	892.5	901.2	927.2	948.9	956.5
35°	858.8	866.4	892.5	915.3	920.7
37.5°	820.8	829.5	857.7	877.3	884.9
40°	783.9	792.6	817.6	837.1	843.6
42.5°	743.7	752.4	777.4	795.8	801.3
45°	701.4	711.2	734.0	752.4	756.8
47.5°	659.0	666.6	690.5	706.8	710.1
50°	614.5	622.1	643.8	660.1	663.4
52.5°	567.8	579.8	597.2	609.1	623.2
55°	523.3	528.7	547.2	570.0	563.5
57.5°	478.8	482.1	497.3	507.0	509.2
60°	429.9	434.3	446.2	451.7	457.1
62.5°	378.9	382.2	396.3	401.7	403.9
65°	330.1	333.3	340.9	346.3	347.4
67.5°	280.1	283.4	289.9	294.2	313.8
70°	234.5	236.7	239.9	248.6	243.2
72.5°	191.1	192.2	195.4	195.4	196.5
75°	149.8	150.9	152.0	150.9	153.1
77.5°	111.8	114.0	115.1	114.0	112.9
80°	80.3	82.5	81.4	79.3	79.3
82.5°	52.1	53.2	52.1	51.0	51.0
85°	27.1	29.3	28.2	27.1	27.1
87.5°	9.8	10.9	11.9	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)