

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: P297872

Luminaire Tested: **D3X-WO-31L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297872
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2863.0 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

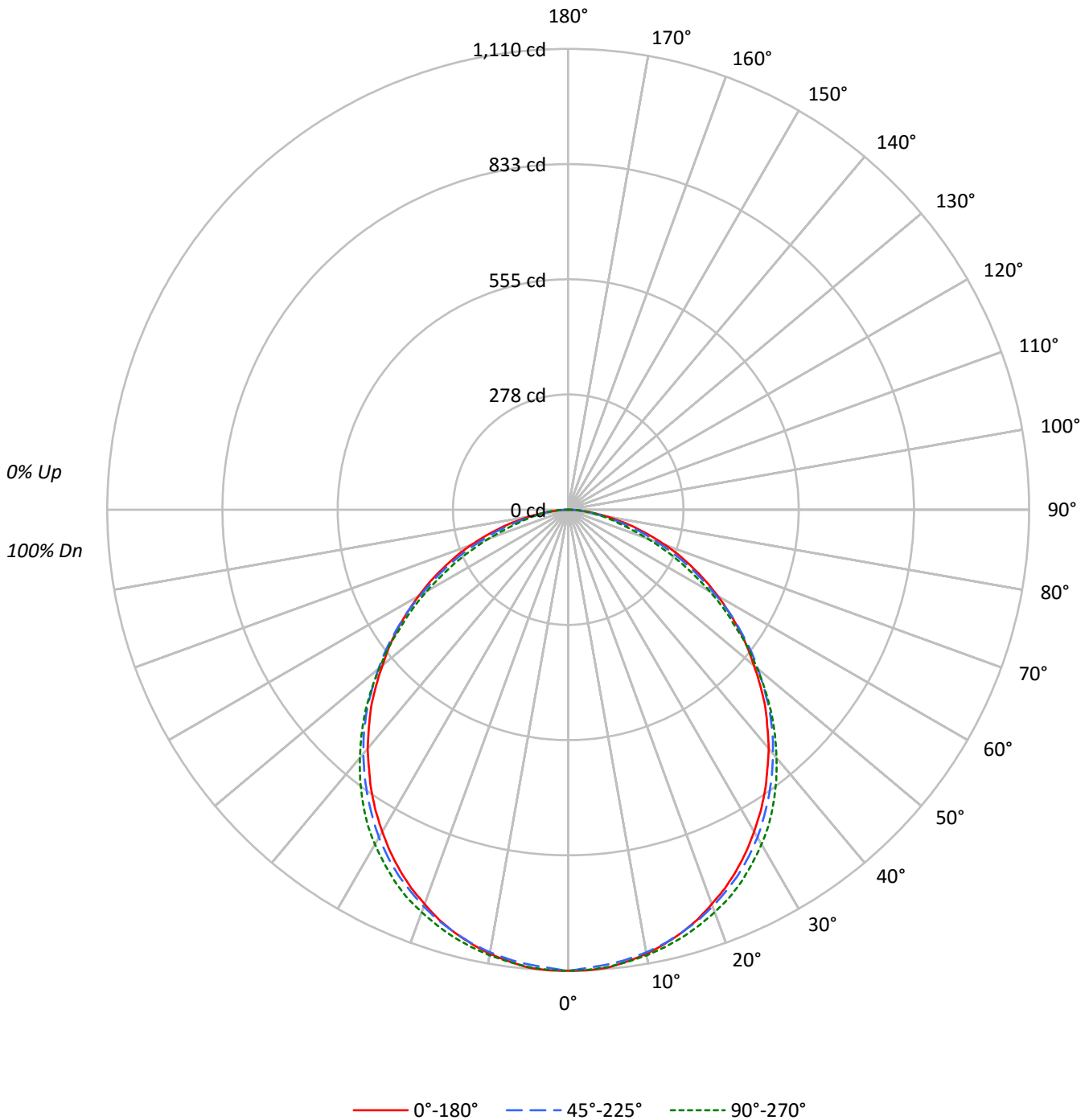
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297872

CATALOG NUMBER: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P297872

CATALOG NUMBER: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-2700K

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	95	98	95	92		94	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65		74	68	64		71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28		39	32	28		38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2988	2988	2988
5°	2990	2970	2987
10°	2968	2958	2978
15°	2938	2938	2969
20°	2895	2912	2954
25°	2847	2879	2933
30°	2783	2832	2892
35°	2715	2767	2831
40°	2639	2694	2741
45°	2554	2610	2633
50°	2444	2495	2485
55°	2351	2369	2306
60°	2234	2201	2116
65°	2110	2025	1885
70°	1958	1795	1595
75°	1742	1540	1312
80°	1447	1260	1223
85°	1050	1124	1124



TEST NUMBER: P297872

CATALOG NUMBER: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.8	3.7
10°-20°	298.5	10.4
20°-30°	447.4	15.6
30°-40°	527.1	18.4
40°-50°	525.8	18.4
50°-60°	447.2	15.6
60°-70°	312.1	10.9
70°-80°	158.7	5.5
80°-90°	41.4	1.4
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°	850.7	29.7
0°-40°	1377.8	48.1
0°-60°	2350.8	82.1
0°-90°	2863.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2863.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1107	1104	1100	1106	1106	105
15°	1055	1055	1055	1064	1066	297
25°	959	960	970	984	988	441
35°	826	828	842	859	862	516
45°	671	674	686	690	692	516
55°	501	501	505	498	492	448
65°	331	326	318	301	296	329
75°	168	161	148	130	126	178
85°	34	35	36	36	36	42
90°	0	0	0	0	0	



TEST NUMBER: P297872

CATALOG NUMBER: D3X-WO-31L82765-LD5-UNV-14-T1-W2A-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1110.5	1110.5	1110.5	1110.5	1110.5
2.5°	1110.5	1109.2	1104.4	1109.2	1109.2
5°	1106.8	1104.4	1099.5	1105.6	1105.6
7.5°	1097.1	1095.9	1092.3	1098.3	1098.3
10°	1086.2	1085.0	1082.5	1089.8	1089.8
12.5°	1071.6	1071.6	1070.4	1077.7	1078.9
15°	1054.6	1054.6	1054.6	1064.3	1065.6
17.5°	1035.2	1034.0	1037.6	1048.6	1049.8
20°	1010.9	1012.2	1017.0	1029.1	1031.6
22.5°	986.7	987.9	994.0	1008.5	1012.2
25°	958.8	960.0	969.7	984.2	987.9
27.5°	928.4	930.8	941.8	957.5	960.0
30°	895.6	898.1	911.4	927.2	930.8
32.5°	861.7	865.3	877.4	894.4	899.3
35°	826.5	827.7	842.2	859.2	861.7
37.5°	787.6	791.3	805.8	820.4	822.8
40°	751.2	753.7	767.0	779.1	780.4
42.5°	710.0	713.6	728.2	736.7	736.7
45°	671.1	673.6	685.7	690.5	691.8
47.5°	627.4	629.9	640.8	643.2	643.2
50°	583.7	589.8	595.9	595.9	593.5
52.5°	543.7	544.9	552.2	547.3	544.9
55°	501.2	501.2	504.9	497.6	491.5
57.5°	458.7	458.7	458.7	449.0	444.2
60°	415.1	413.8	409.0	396.9	393.2
62.5°	373.8	370.2	362.9	350.7	343.5
65°	331.3	326.5	318.0	301.0	296.1
67.5°	291.3	282.8	273.1	257.3	248.8
70°	248.8	241.5	228.2	210.0	202.7
72.5°	207.5	200.2	189.3	171.1	160.2
75°	167.5	161.4	148.1	129.9	126.2
77.5°	128.6	125.0	111.7	103.2	101.9
80°	93.4	92.2	81.3	78.9	78.9
82.5°	61.9	60.7	57.0	57.0	55.8
85°	34.0	35.2	36.4	36.4	36.4
87.5°	12.1	14.6	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)