

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: P297737

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3045.0 lumens
Efficiency: N/A
Efficacy: 105.4 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

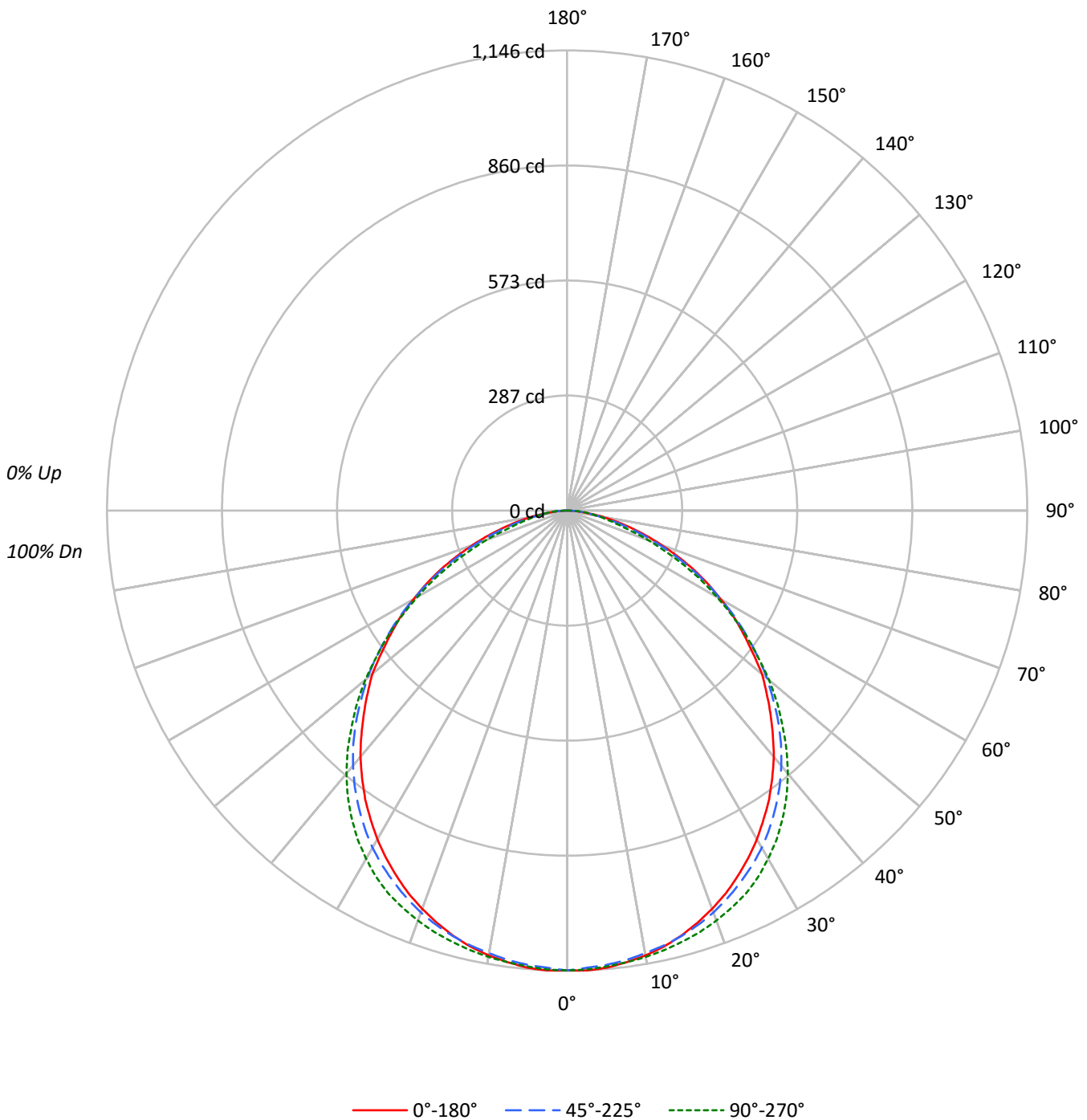
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297737

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P297737

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5000K

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	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65	74	69	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	48	59	53	48	58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43	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	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3082	3082	3082
5°	3086	3068	3079
10°	3073	3058	3084
15°	3054	3058	3095
20°	3022	3049	3112
25°	2984	3032	3125
30°	2936	3013	3110
35°	2881	2970	3073
40°	2813	2913	3004
45°	2726	2829	2887
50°	2651	2719	2748
55°	2517	2568	2556
60°	2382	2382	2316
65°	2211	2159	2038
70°	1961	1875	1692
75°	1699	1543	1303
80°	1393	1203	1182
85°	926	1093	1176



TEST NUMBER: P297737

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.6
10°-20°	310.8	10.2
20°-30°	472.4	15.5
30°-40°	565.6	18.6
40°-50°	570.5	18.7
50°-60°	485.9	16.0
60°-70°	332.3	10.9
70°-80°	159.1	5.2
80°-90°	40.3	1.3
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°	891.4	29.3
0°-40°	1457.0	47.8
0°-60°	2513.3	82.5
0°-90°	3045.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3045.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1145	1145	1145	1145	1145	
5°	1142	1141	1136	1141	1140	108
15°	1096	1093	1098	1110	1111	309
25°	1005	1006	1021	1044	1053	463
35°	877	880	904	930	936	548
45°	716	722	744	758	758	553
55°	536	539	547	549	545	480
65°	347	340	339	327	320	342
75°	163	161	148	129	125	175
85°	30	33	35	37	38	39
90°	0	0	0	0	0	



TEST NUMBER: P297737

CATALOG NUMBER: D3X-WG-31L82765-LD5-UNV-14-T1-W2A-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1145.2	1145.2	1145.2	1145.2	1145.2
2.5°	1146.5	1145.2	1139.7	1145.2	1143.8
5°	1142.4	1141.1	1135.6	1141.1	1139.7
7.5°	1134.3	1132.9	1128.8	1134.3	1134.3
10°	1124.7	1122.0	1119.3	1127.5	1128.8
12.5°	1112.5	1109.8	1109.8	1119.3	1120.7
15°	1096.1	1093.4	1097.5	1109.8	1111.1
17.5°	1077.1	1075.7	1082.5	1097.5	1100.2
20°	1055.3	1053.9	1064.8	1082.5	1086.6
22.5°	1032.1	1032.1	1044.4	1064.8	1070.3
25°	1004.9	1006.3	1021.3	1044.4	1052.6
27.5°	976.3	979.0	996.7	1022.6	1029.4
30°	945.0	949.1	969.5	994.0	1000.8
32.5°	911.0	915.0	938.2	964.1	970.9
35°	876.9	879.6	904.2	930.0	935.5
37.5°	838.8	842.9	868.7	891.9	897.3
40°	800.7	804.7	829.3	851.0	855.1
42.5°	758.5	763.9	788.4	806.1	808.8
45°	716.2	721.7	743.5	758.5	758.5
47.5°	674.0	676.8	695.8	710.8	709.4
50°	633.2	631.8	649.5	656.3	656.3
52.5°	582.8	586.9	599.1	603.2	599.1
55°	536.5	539.2	547.4	548.8	544.7
57.5°	491.6	490.2	497.0	492.9	487.5
60°	442.5	442.5	442.5	438.5	430.3
62.5°	394.9	392.2	390.8	381.3	377.2
65°	347.2	340.4	339.1	326.8	320.0
67.5°	296.8	294.1	287.3	275.1	262.8
70°	249.2	246.5	238.3	223.3	215.1
72.5°	205.6	202.9	192.0	174.3	163.4
75°	163.4	160.7	148.4	129.4	125.3
77.5°	123.9	122.6	110.3	100.8	99.4
80°	89.9	88.5	77.6	77.6	76.3
82.5°	57.2	57.2	54.5	55.8	57.2
85°	30.0	32.7	35.4	36.8	38.1
87.5°	9.5	15.0	17.7	19.1	17.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)