

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: P298441

Luminaire Tested: **D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2850.0 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

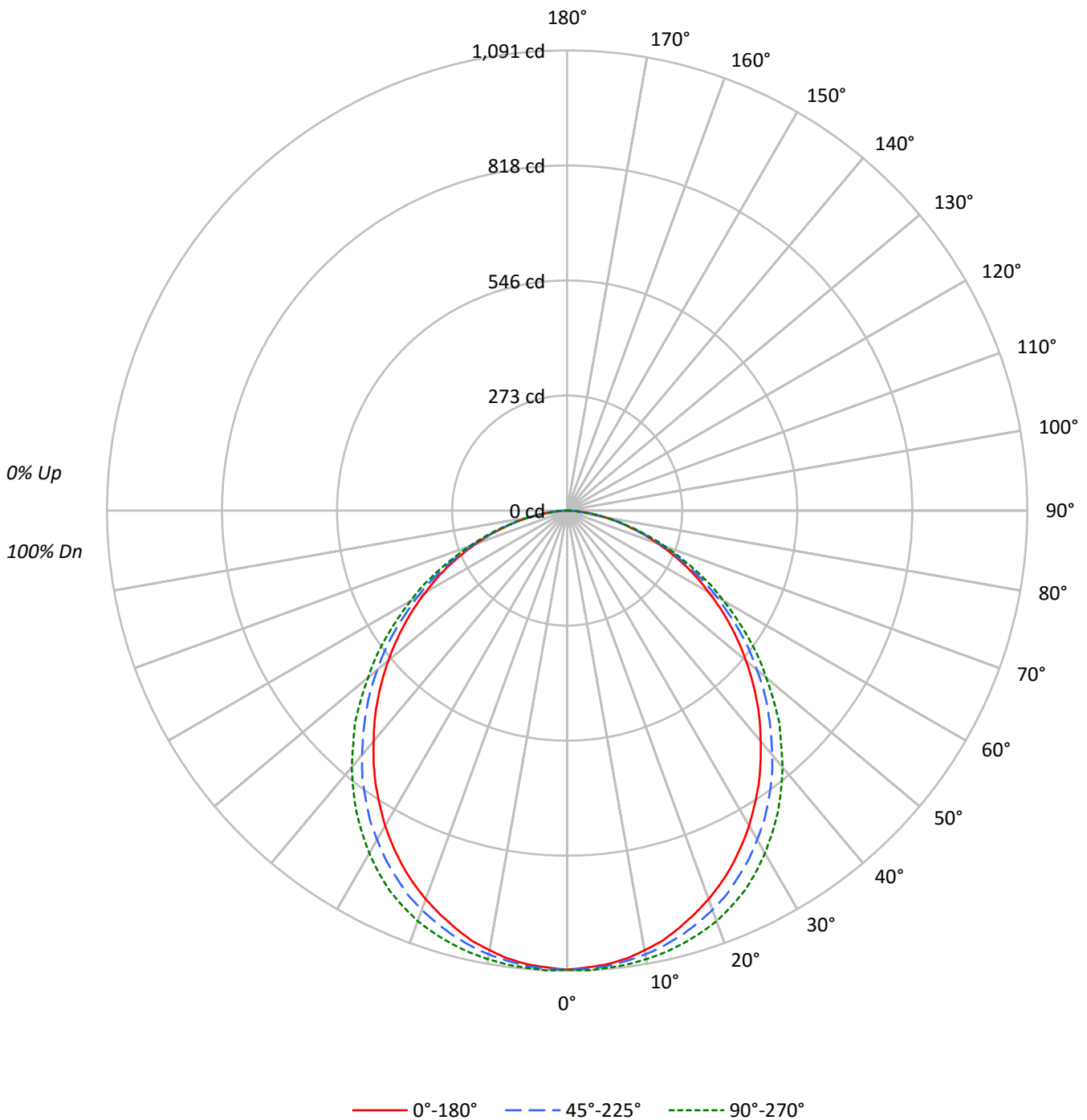
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298441

CATALOG NUMBER: D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P298441

CATALOG NUMBER: D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4500K

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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	2929	2929	2929
5°	2917	2928	2940
10°	2893	2920	2951
15°	2854	2906	2961
20°	2808	2885	2966
25°	2751	2848	2953
30°	2681	2800	2915
35°	2601	2736	2862
40°	2507	2657	2792
45°	2419	2565	2705
50°	2317	2460	2578
55°	2210	2343	2457
60°	2085	2207	2306
65°	1969	2042	2141
70°	1809	1865	1932
75°	1608	1652	1697
80°	1385	1364	1364
85°	1053	963	877



TEST NUMBER: P298441

CATALOG NUMBER: D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.6
10°-20°	294.3	10.3
20°-30°	441.8	15.5
30°-40°	520.0	18.2
40°-50°	518.7	18.2
50°-60°	445.1	15.6
60°-70°	318.8	11.2
70°-80°	168.8	5.9
80°-90°	39.5	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°	839.1	29.4
0°-40°	1359.1	47.7
0°-60°	2322.9	81.5
0°-90°	2850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2850.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1080	1080	1084	1087	1088	102
15°	1024	1029	1043	1057	1063	289
25°	927	935	959	983	995	426
35°	792	802	833	861	871	495
45°	636	646	674	698	711	490
55°	471	478	500	516	524	421
65°	309	311	321	334	336	306
75°	155	155	159	162	163	166
85°	34	33	31	28	28	41
90°	0	0	0	0	0	



TEST NUMBER: P298441

CATALOG NUMBER: D3X-WO-31L92765-LD5-UNV-22-T1-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.4	1088.4	1088.4	1088.4	1088.4
2.5°	1084.1	1084.1	1087.0	1089.8	1091.2
5°	1079.9	1079.9	1084.1	1087.0	1088.4
7.5°	1071.4	1071.4	1077.0	1082.7	1085.6
10°	1058.6	1061.4	1068.5	1077.0	1079.9
12.5°	1044.4	1047.2	1057.2	1068.5	1072.8
15°	1024.5	1028.8	1043.0	1057.2	1062.8
17.5°	1003.2	1008.9	1026.0	1043.0	1050.1
20°	980.5	986.2	1007.5	1027.4	1035.9
22.5°	955.0	962.1	986.2	1007.5	1016.0
25°	926.6	935.1	959.3	983.4	994.7
27.5°	895.4	905.3	932.3	957.8	967.8
30°	862.8	874.1	901.1	928.0	938.0
32.5°	827.3	837.2	869.9	895.4	905.3
35°	791.8	801.7	833.0	861.3	871.3
37.5°	753.5	766.3	797.5	823.0	833.0
40°	713.8	726.5	756.3	786.1	794.7
42.5°	675.5	686.8	715.2	742.1	750.7
45°	635.7	645.7	674.0	698.2	710.9
47.5°	594.6	604.5	632.9	655.6	662.7
50°	553.4	563.4	587.5	607.3	615.9
52.5°	512.3	522.2	544.9	563.4	571.9
55°	471.1	478.2	499.5	516.5	523.6
57.5°	430.0	435.6	452.7	471.1	475.4
60°	387.4	394.5	410.1	422.9	428.5
62.5°	349.1	351.9	366.1	377.5	384.6
65°	309.3	310.8	320.7	333.5	336.3
67.5°	268.2	269.6	279.5	286.6	289.5
70°	229.9	229.9	237.0	242.7	245.5
72.5°	193.0	191.6	195.8	201.5	204.3
75°	154.7	154.7	158.9	161.8	163.2
77.5°	122.0	119.2	122.0	124.9	124.9
80°	89.4	88.0	88.0	89.4	88.0
82.5°	61.0	59.6	61.0	58.2	56.8
85°	34.1	32.6	31.2	28.4	28.4
87.5°	11.4	9.9	9.9	11.4	11.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)