

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: P296763

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-24-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P296763
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-4500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2956.0 lumens
Efficiency: N/A
Efficacy: 136.8 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

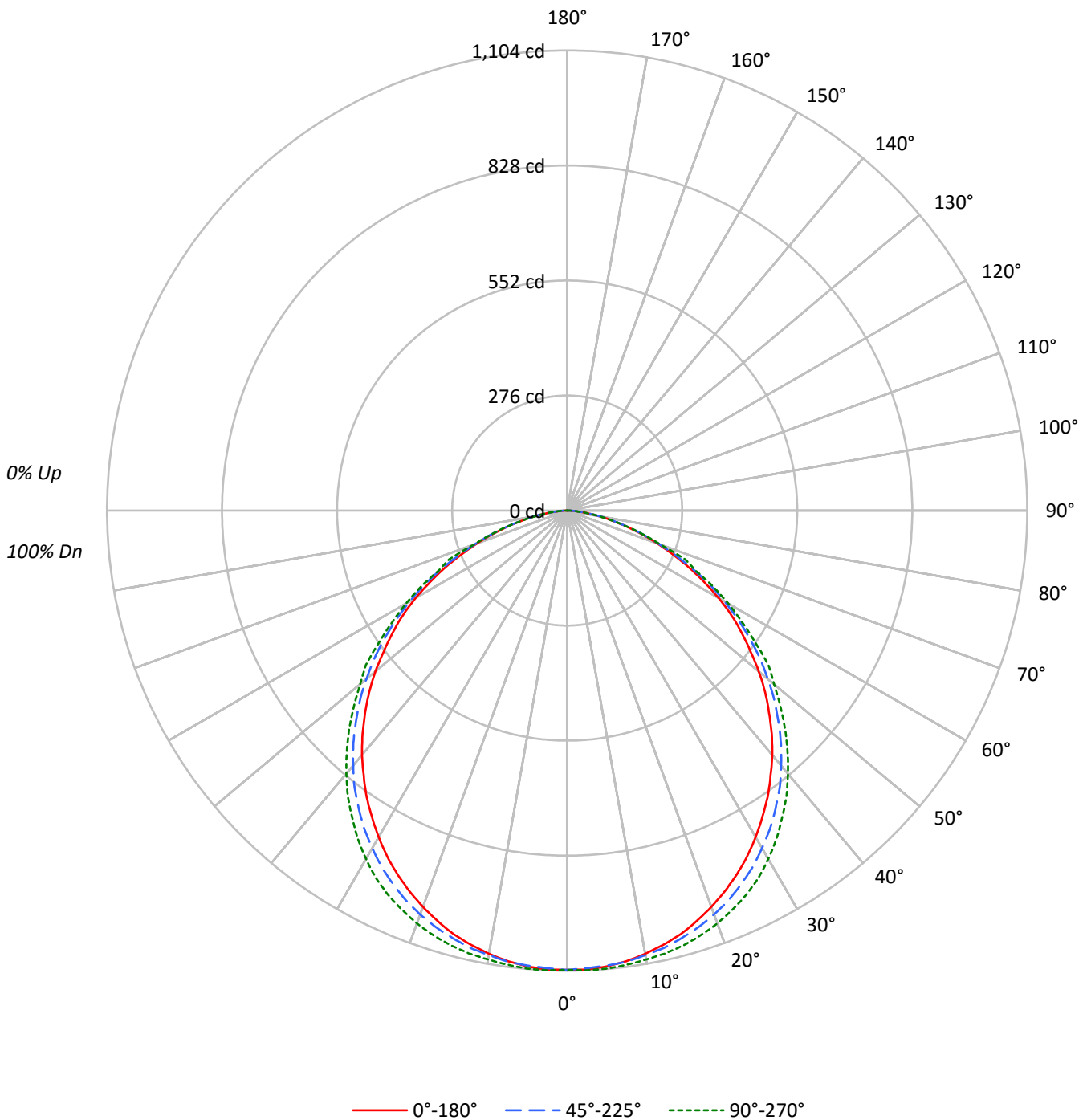
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P296763

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P296763

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-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	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°	1483	1483	1483
5°	1483	1480	1490
10°	1475	1480	1494
15°	1466	1479	1504
20°	1449	1476	1509
25°	1430	1468	1510
30°	1406	1453	1500
35°	1378	1432	1477
40°	1345	1403	1447
45°	1304	1364	1407
50°	1257	1316	1356
55°	1199	1254	1291
60°	1130	1173	1202
65°	1026	1060	1081
70°	901	922	935
75°	761	772	777
80°	608	616	600
85°	409	426	409



TEST NUMBER: P296763

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.5
10°-20°	300.3	10.2
20°-30°	455.7	15.4
30°-40°	544.0	18.4
40°-50°	550.8	18.6
50°-60°	476.1	16.1
60°-70°	329.9	11.2
70°-80°	159.6	5.4
80°-90°	35.1	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°	860.4	29.1
0°-40°	1404.5	47.5
0°-60°	2431.3	82.3
0°-90°	2956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2956.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1102	1102	1102	1102	1102	
5°	1098	1097	1096	1101	1103	104
15°	1052	1054	1062	1074	1080	297
25°	963	969	988	1009	1017	444
35°	839	846	872	894	899	524
45°	685	695	717	735	739	528
55°	511	516	534	557	550	457
65°	322	326	333	338	339	319
75°	146	147	148	147	150	157
85°	26	29	28	26	26	34
90°	0	0	0	0	0	



TEST NUMBER: P296763

CATALOG NUMBER: D3X-WD-31L82765-LD5-UNV-24-T1-W2A-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1102.0	1102.0	1102.0	1102.0	1102.0
2.5°	1102.0	1100.9	1098.8	1102.0	1104.1
5°	1097.7	1096.7	1095.6	1100.9	1103.0
7.5°	1090.3	1090.3	1091.4	1096.7	1098.8
10°	1079.7	1080.8	1082.9	1091.4	1093.5
12.5°	1067.0	1069.1	1074.4	1083.9	1088.2
15°	1052.1	1054.2	1061.7	1074.4	1079.7
17.5°	1033.0	1037.3	1047.9	1062.7	1068.0
20°	1011.8	1017.1	1030.9	1047.9	1054.2
22.5°	988.5	993.8	1011.8	1029.9	1036.2
25°	963.0	969.4	988.5	1008.6	1017.1
27.5°	935.5	942.9	964.1	985.3	993.8
30°	904.7	913.2	935.5	957.7	965.2
32.5°	871.8	880.3	905.8	927.0	934.4
35°	838.9	846.4	871.8	894.1	899.4
37.5°	801.8	810.3	837.9	857.0	864.4
40°	765.8	774.2	798.6	817.7	824.1
42.5°	726.5	735.0	759.4	777.4	782.7
45°	685.2	694.7	717.0	735.0	739.2
47.5°	643.8	651.2	674.5	690.5	693.6
50°	600.3	607.7	628.9	644.9	648.0
52.5°	554.7	566.4	583.3	595.0	608.8
55°	511.2	516.5	534.5	556.8	550.5
57.5°	467.7	470.9	485.8	495.3	497.4
60°	420.0	424.2	435.9	441.2	446.5
62.5°	370.2	373.3	387.1	392.4	394.5
65°	322.4	325.6	333.0	338.3	339.4
67.5°	273.6	276.8	283.2	287.4	306.5
70°	229.1	231.2	234.4	242.9	237.6
72.5°	186.7	187.7	190.9	190.9	192.0
75°	146.4	147.4	148.5	147.4	149.5
77.5°	109.2	111.4	112.4	111.4	110.3
80°	78.5	80.6	79.5	77.4	77.4
82.5°	50.9	52.0	50.9	49.8	49.8
85°	26.5	28.6	27.6	26.5	26.5
87.5°	9.5	10.6	11.7	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)