

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: P297429

Luminaire Tested: **D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3883.0 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.25 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

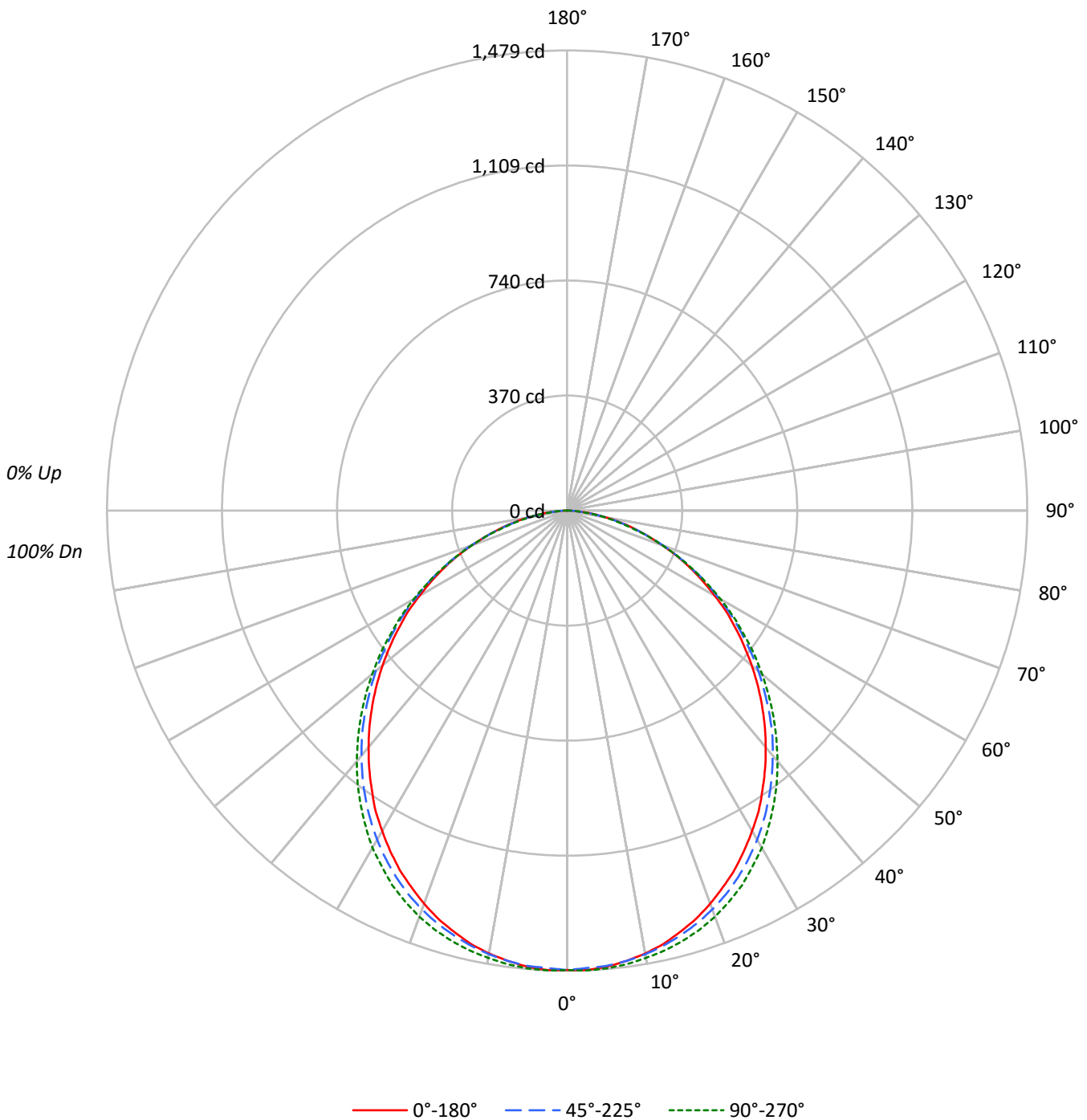
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P297429

CATALOG NUMBER: D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P297429

CATALOG NUMBER: D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3000K

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	100	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	57	81	70	62	56	68	61	55	66	60	55	63	58	54	52
5	77	64	55	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	41	39
7	66	53	44	38	64	52	44	38	50	43	37	49	42	37	47	41	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°	1987	1987	1987
5°	1987	1984	1995
10°	1975	1978	1994
15°	1953	1968	1995
20°	1925	1953	1989
25°	1891	1930	1973
30°	1847	1898	1945
35°	1798	1856	1899
40°	1744	1806	1847
45°	1685	1747	1785
50°	1621	1681	1711
55°	1553	1602	1626
60°	1475	1514	1531
65°	1391	1412	1420
70°	1276	1292	1276
75°	1149	1143	1108
80°	973	963	932
85°	727	707	625



TEST NUMBER: P297429

CATALOG NUMBER: D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.8	3.6
10°-20°	399.4	10.3
20°-30°	598.9	15.4
30°-40°	705.3	18.2
40°-50°	705.4	18.2
50°-60°	608.6	15.7
60°-70°	437.9	11.3
70°-80°	232.3	6.0
80°-90°	55.4	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°	1138.1	29.3
0°-40°	1843.4	47.5
0°-60°	3157.4	81.3
0°-90°	3883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1477	1477	1477	1477	1477	
5°	1472	1470	1469	1474	1477	140
15°	1402	1406	1413	1427	1432	395
25°	1274	1282	1300	1322	1329	586
35°	1095	1108	1130	1150	1156	685
45°	886	897	918	934	938	683
55°	662	668	683	695	693	592
65°	437	438	443	446	446	432
75°	221	218	220	214	213	235
85°	47	47	46	42	40	57
90°	0	0	0	0	0	



TEST NUMBER: P297429

CATALOG NUMBER: D3X-WO-50L93050-LD5-UNV-24-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1476.8	1476.8	1476.8	1476.8	1476.8
2.5°	1478.1	1475.5	1471.5	1476.8	1479.4
5°	1471.5	1470.2	1468.9	1474.2	1476.8
7.5°	1459.8	1461.1	1459.8	1467.6	1470.2
10°	1445.4	1446.7	1448.0	1457.2	1459.8
12.5°	1427.1	1428.4	1432.3	1444.1	1448.0
15°	1402.2	1406.1	1412.7	1427.1	1432.3
17.5°	1376.1	1381.3	1390.4	1407.5	1412.7
20°	1344.7	1351.2	1364.3	1382.6	1389.1
22.5°	1309.3	1315.9	1334.2	1353.8	1360.4
25°	1274.0	1281.9	1300.2	1322.4	1329.0
27.5°	1232.2	1242.6	1262.3	1284.5	1289.7
30°	1189.0	1198.2	1221.7	1242.6	1251.8
32.5°	1145.8	1155.0	1177.2	1198.2	1204.7
35°	1094.8	1107.9	1130.1	1149.8	1156.3
37.5°	1045.1	1056.9	1080.4	1100.1	1106.6
40°	992.8	1003.3	1028.1	1046.4	1051.7
42.5°	940.5	950.9	975.8	990.2	995.4
45°	885.5	897.3	918.2	933.9	937.9
47.5°	830.6	839.8	859.4	873.8	879.0
50°	774.4	783.5	803.1	814.9	817.5
52.5°	718.1	724.7	743.0	753.4	757.4
55°	661.9	668.4	682.8	694.6	693.3
57.5°	608.2	610.9	625.2	633.1	633.1
60°	548.1	550.7	562.5	567.7	569.0
62.5°	491.8	495.7	504.9	506.2	506.2
65°	436.9	438.2	443.4	446.0	446.0
67.5°	381.9	380.6	385.9	385.9	384.6
70°	324.4	327.0	328.3	325.7	324.4
72.5°	272.1	270.8	270.8	269.5	269.5
75°	221.1	218.4	219.8	214.5	213.2
77.5°	174.0	170.0	168.7	166.1	163.5
80°	125.6	125.6	124.3	121.6	120.3
82.5°	83.7	83.7	82.4	79.8	77.2
85°	47.1	47.1	45.8	41.9	40.5
87.5°	15.7	15.7	15.7	15.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)