

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: P297340

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297340
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-42L82765-LD5-UNV-24-T1-W2A-4000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4206.0 lumens
Efficiency: N/A
Efficacy: 142.6 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

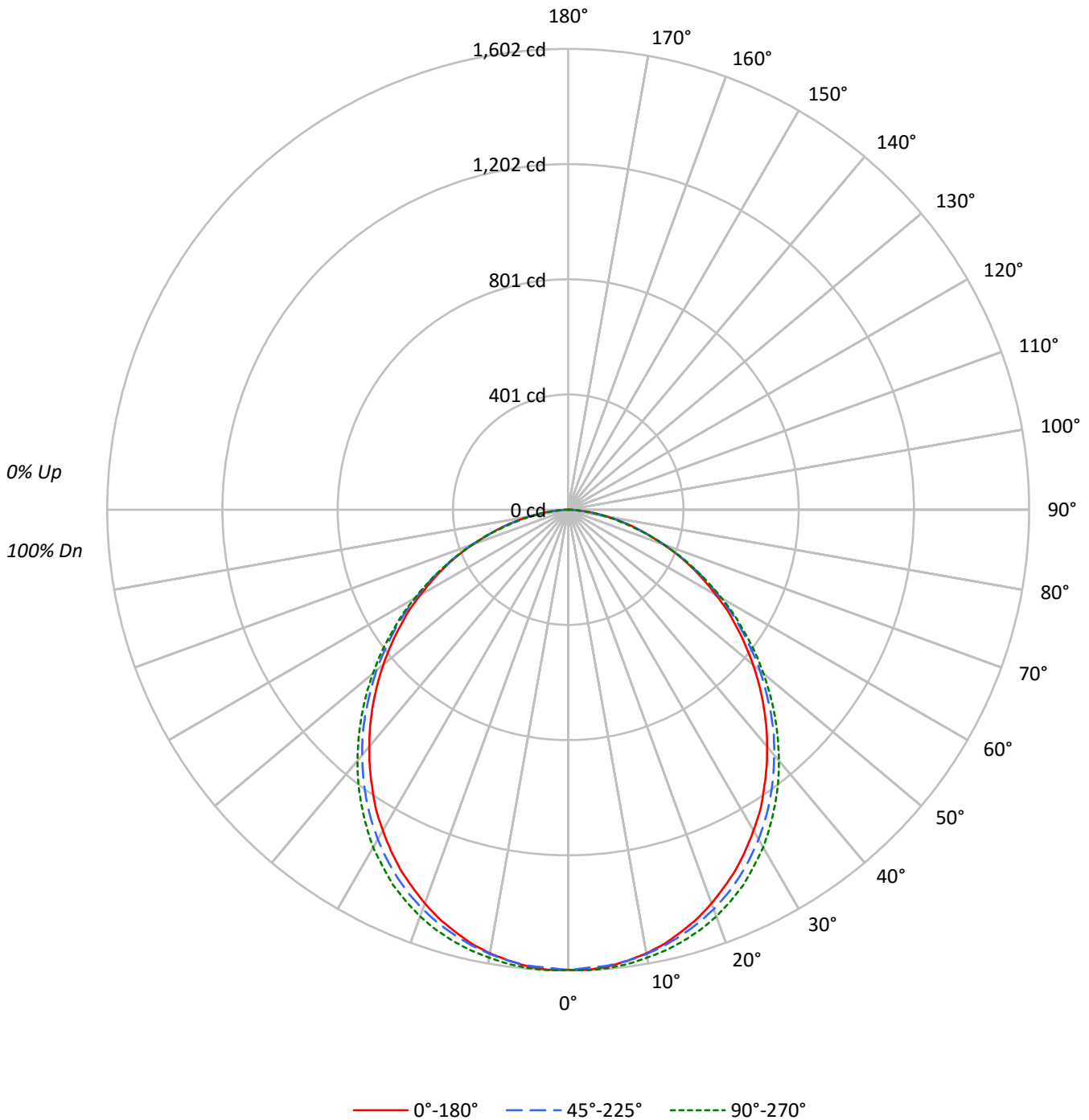
Input Watts (W): 29.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2152	2152	2152
5°	2153	2149	2160
10°	2139	2143	2160
15°	2116	2131	2161
20°	2085	2116	2154
25°	2049	2091	2137
30°	2001	2056	2107
35°	1948	2011	2057
40°	1889	1956	2001
45°	1825	1893	1933
50°	1756	1821	1854
55°	1682	1735	1761
60°	1598	1639	1658
65°	1507	1529	1538
70°	1382	1399	1382
75°	1245	1237	1200
80°	1054	1043	1010
85°	787	766	678



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.5	3.6
10°-20°	432.6	10.3
20°-30°	648.7	15.4
30°-40°	763.9	18.2
40°-50°	764.1	18.2
50°-60°	659.2	15.7
60°-70°	474.4	11.3
70°-80°	251.6	6.0
80°-90°	60.0	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°	1232.8	29.3
0°-40°	1996.7	47.5
0°-60°	3420.0	81.3
0°-90°	4206.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4206.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1600	1600	1600	1600	1600	
5°	1594	1592	1591	1597	1600	151
15°	1519	1523	1530	1546	1551	428
25°	1380	1388	1408	1432	1440	635
35°	1186	1200	1224	1245	1252	742
45°	959	972	995	1012	1016	740
55°	717	724	740	752	751	642
65°	473	475	480	483	483	468
75°	239	237	238	232	231	255
85°	51	51	50	45	44	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1599.6	1599.6	1599.6	1599.6	1599.6
2.5°	1601.0	1598.2	1594.0	1599.6	1602.5
5°	1594.0	1592.5	1591.1	1596.8	1599.6
7.5°	1581.2	1582.6	1581.2	1589.7	1592.5
10°	1565.6	1567.0	1568.4	1578.4	1581.2
12.5°	1545.8	1547.2	1551.4	1564.2	1568.4
15°	1518.9	1523.1	1530.2	1545.8	1551.4
17.5°	1490.5	1496.2	1506.1	1524.5	1530.2
20°	1456.5	1463.6	1477.8	1497.6	1504.7
22.5°	1418.3	1425.3	1445.2	1466.4	1473.5
25°	1380.0	1388.5	1408.3	1432.4	1439.5
27.5°	1334.7	1346.0	1367.3	1391.3	1397.0
30°	1287.9	1297.8	1323.3	1346.0	1355.9
32.5°	1241.2	1251.1	1275.2	1297.8	1304.9
35°	1185.9	1200.1	1224.2	1245.4	1252.5
37.5°	1132.1	1144.8	1170.3	1191.6	1198.7
40°	1075.4	1086.7	1113.6	1133.5	1139.1
42.5°	1018.7	1030.0	1057.0	1072.6	1078.2
45°	959.2	972.0	994.6	1011.6	1015.9
47.5°	899.7	909.6	930.9	946.5	952.1
50°	838.8	848.7	869.9	882.7	885.5
52.5°	777.8	784.9	804.8	816.1	820.4
55°	716.9	724.0	739.6	752.3	750.9
57.5°	658.8	661.7	677.3	685.8	685.8
60°	593.7	596.5	609.2	614.9	616.3
62.5°	532.7	537.0	546.9	548.3	548.3
65°	473.2	474.6	480.3	483.1	483.1
67.5°	413.7	412.3	418.0	418.0	416.6
70°	351.4	354.2	355.6	352.8	351.4
72.5°	294.7	293.3	293.3	291.9	291.9
75°	239.4	236.6	238.0	232.4	230.9
77.5°	188.4	184.2	182.8	179.9	177.1
80°	136.0	136.0	134.6	131.8	130.3
82.5°	90.7	90.7	89.3	86.4	83.6
85°	51.0	51.0	49.6	45.3	43.9
87.5°	17.0	17.0	17.0	17.0	17.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)