

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: P297345

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297345
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-6500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4405.0 lumens
Efficiency: N/A
Efficacy: 144.9 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

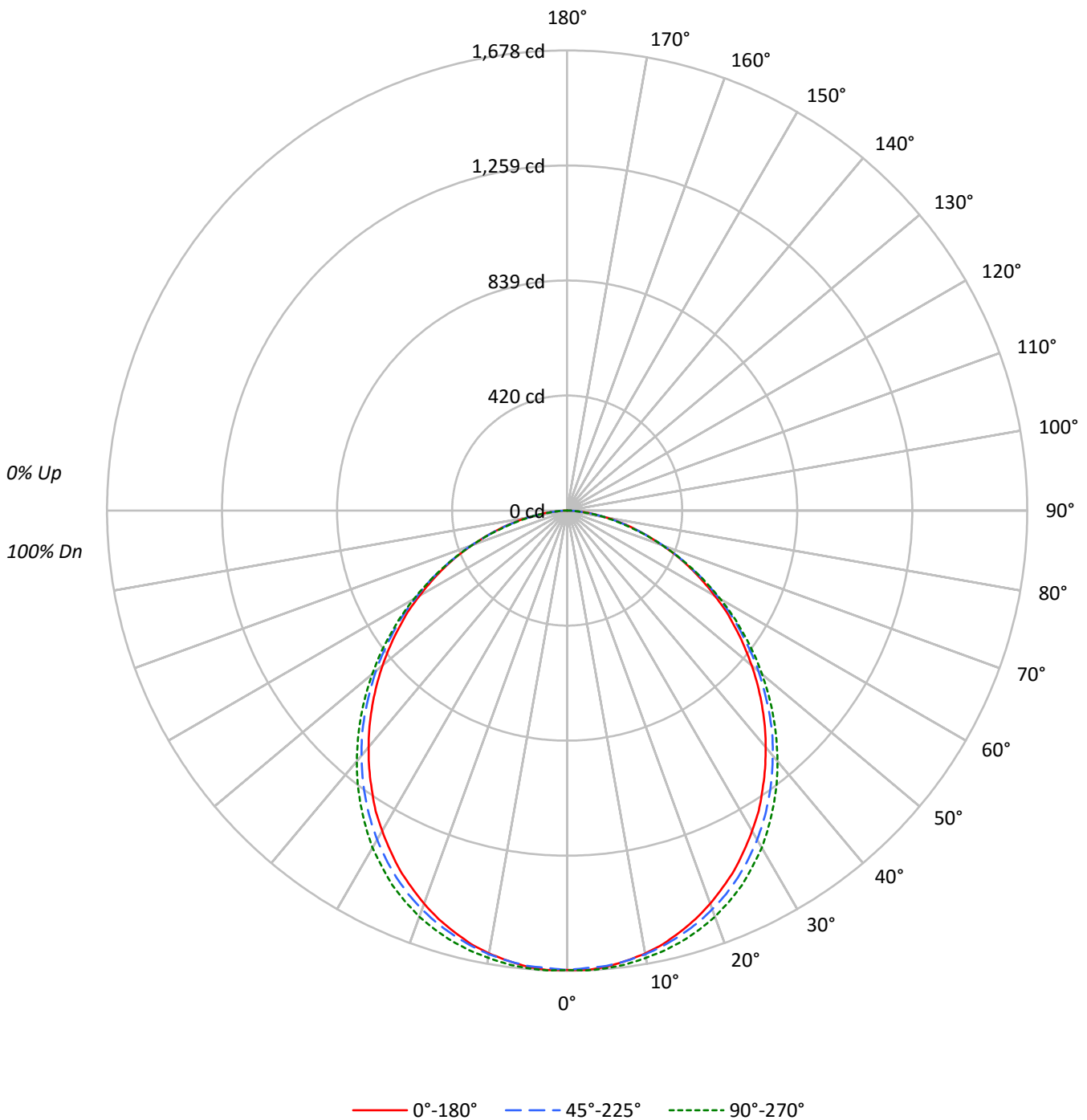
Input Watts (W): 30.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2254	2254	2254
5°	2255	2251	2263
10°	2240	2244	2263
15°	2216	2232	2263
20°	2184	2216	2256
25°	2146	2190	2238
30°	2096	2153	2206
35°	2040	2106	2155
40°	1978	2049	2095
45°	1912	1982	2024
50°	1839	1907	1941
55°	1761	1817	1845
60°	1673	1717	1737
65°	1578	1601	1611
70°	1448	1465	1448
75°	1304	1296	1258
80°	1104	1093	1058
85°	824	801	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.6	3.6
10°-20°	453.1	10.3
20°-30°	679.4	15.4
30°-40°	800.1	18.2
40°-50°	800.2	18.2
50°-60°	690.4	15.7
60°-70°	496.8	11.3
70°-80°	263.5	6.0
80°-90°	62.8	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°	1291.1	29.3
0°-40°	2091.2	47.5
0°-60°	3581.8	81.3
0°-90°	4405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4405.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1675	1675	1675	1675	1675	
5°	1669	1668	1666	1672	1675	158
15°	1591	1595	1603	1619	1625	449
25°	1445	1454	1475	1500	1508	665
35°	1242	1257	1282	1304	1312	777
45°	1005	1018	1042	1060	1064	775
55°	751	758	775	788	786	672
65°	496	497	503	506	506	490
75°	251	248	249	243	242	267
85°	53	53	52	48	46	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1675.3	1675.3	1675.3	1675.3	1675.3
2.5°	1676.8	1673.8	1669.4	1675.3	1678.3
5°	1669.4	1667.9	1666.4	1672.3	1675.3
7.5°	1656.0	1657.5	1656.0	1664.9	1667.9
10°	1639.7	1641.2	1642.7	1653.0	1656.0
12.5°	1618.9	1620.4	1624.9	1638.2	1642.7
15°	1590.7	1595.2	1602.6	1618.9	1624.9
17.5°	1561.0	1567.0	1577.4	1596.7	1602.6
20°	1525.4	1532.9	1547.7	1568.5	1575.9
22.5°	1485.4	1492.8	1513.6	1535.8	1543.2
25°	1445.3	1454.2	1475.0	1500.2	1507.6
27.5°	1397.8	1409.7	1431.9	1457.2	1463.1
30°	1348.8	1359.2	1385.9	1409.7	1420.1
32.5°	1299.9	1310.3	1335.5	1359.2	1366.7
35°	1242.0	1256.8	1282.1	1304.3	1311.8
37.5°	1185.6	1199.0	1225.7	1247.9	1255.4
40°	1126.3	1138.1	1166.3	1187.1	1193.0
42.5°	1066.9	1078.8	1107.0	1123.3	1129.2
45°	1004.6	1017.9	1041.7	1059.5	1063.9
47.5°	942.3	952.7	974.9	991.2	997.2
50°	878.5	888.8	911.1	924.5	927.4
52.5°	814.7	822.1	842.8	854.7	859.2
55°	750.8	758.3	774.6	787.9	786.5
57.5°	690.0	693.0	709.3	718.2	718.2
60°	621.7	624.7	638.1	644.0	645.5
62.5°	557.9	562.4	572.8	574.3	574.3
65°	495.6	497.1	503.0	506.0	506.0
67.5°	433.3	431.8	437.7	437.7	436.3
70°	368.0	371.0	372.5	369.5	368.0
72.5°	308.6	307.2	307.2	305.7	305.7
75°	250.8	247.8	249.3	243.4	241.9
77.5°	197.4	192.9	191.4	188.5	185.5
80°	142.5	142.5	141.0	138.0	136.5
82.5°	95.0	95.0	93.5	90.5	87.5
85°	53.4	53.4	51.9	47.5	46.0
87.5°	17.8	17.8	17.8	17.8	17.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)