

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: P297898

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-40L82765-LD5-UNV-14-T1-W2A-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4241.0 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

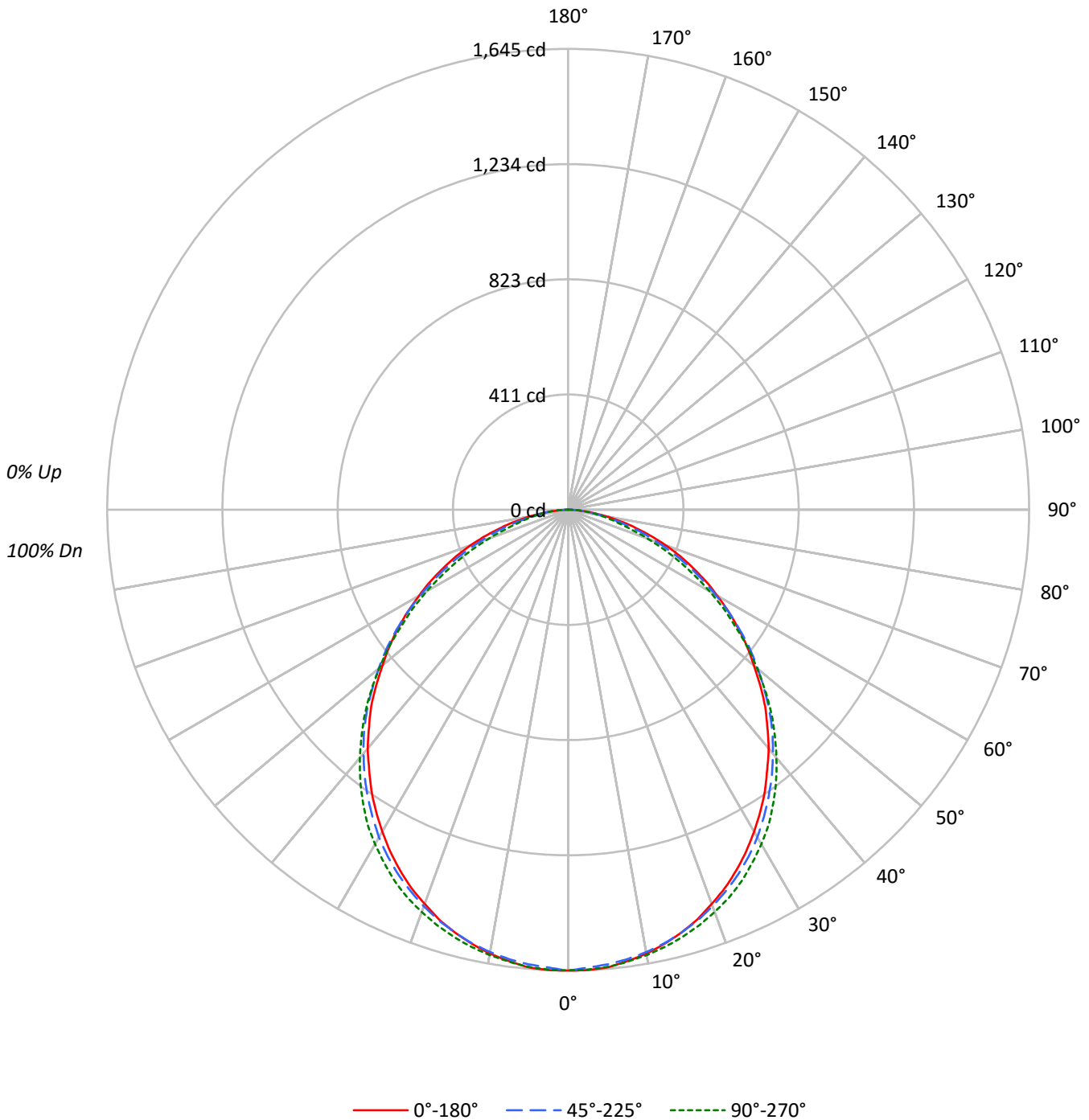
Input Watts (W): 41.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4426	4426	4426
5°	4429	4400	4424
10°	4397	4382	4411
15°	4352	4352	4397
20°	4288	4314	4376
25°	4217	4265	4345
30°	4122	4195	4285
35°	4022	4098	4193
40°	3909	3991	4061
45°	3784	3865	3900
50°	3620	3695	3680
55°	3483	3509	3416
60°	3309	3260	3135
65°	3125	2999	2793
70°	2899	2659	2362
75°	2580	2280	1944
80°	2145	1866	1812
85°	1553	1664	1664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.7
10°-20°	442.2	10.4
20°-30°	662.8	15.6
30°-40°	780.8	18.4
40°-50°	778.8	18.4
50°-60°	662.4	15.6
60°-70°	462.3	10.9
70°-80°	235.0	5.5
80°-90°	61.4	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°	1260.2	29.7
0°-40°	2041.0	48.1
0°-60°	3482.3	82.1
0°-90°	4241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4241.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1645	1645	1645	1645	1645	
5°	1640	1636	1629	1638	1638	155
15°	1562	1562	1562	1577	1578	440
25°	1420	1422	1436	1458	1463	654
35°	1224	1226	1248	1273	1276	765
45°	994	998	1016	1023	1025	765
55°	742	742	748	737	728	663
65°	491	484	471	446	439	487
75°	248	239	219	192	187	263
85°	50	52	54	54	54	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1644.9	1644.9	1644.9	1644.9	1644.9
2.5°	1644.9	1643.1	1635.9	1643.1	1643.1
5°	1639.5	1635.9	1628.8	1637.7	1637.7
7.5°	1625.2	1623.4	1618.0	1627.0	1627.0
10°	1609.0	1607.2	1603.6	1614.4	1614.4
12.5°	1587.4	1587.4	1585.6	1596.4	1598.2
15°	1562.2	1562.2	1562.2	1576.6	1578.4
17.5°	1533.5	1531.7	1537.1	1553.3	1555.0
20°	1497.5	1499.3	1506.5	1524.5	1528.1
22.5°	1461.6	1463.4	1472.4	1493.9	1499.3
25°	1420.2	1422.0	1436.4	1458.0	1463.4
27.5°	1375.3	1378.9	1395.1	1418.4	1422.0
30°	1326.7	1330.3	1350.1	1373.5	1378.9
32.5°	1276.4	1281.8	1299.8	1324.9	1332.1
35°	1224.3	1226.1	1247.6	1272.8	1276.4
37.5°	1166.7	1172.1	1193.7	1215.3	1218.9
40°	1112.8	1116.4	1136.2	1154.2	1156.0
42.5°	1051.7	1057.1	1078.6	1091.2	1091.2
45°	994.2	997.7	1015.7	1022.9	1024.7
47.5°	929.4	933.0	949.2	952.8	952.8
50°	864.7	873.7	882.7	882.7	879.1
52.5°	805.4	807.2	818.0	810.8	807.2
55°	742.5	742.5	747.9	737.1	728.1
57.5°	679.5	679.5	679.5	665.2	658.0
60°	614.8	613.0	605.8	587.9	582.5
62.5°	553.7	548.3	537.5	519.5	508.8
65°	490.8	483.6	471.0	445.8	438.6
67.5°	431.5	418.9	404.5	381.1	368.5
70°	368.5	357.8	338.0	311.0	300.2
72.5°	307.4	296.6	280.4	253.5	237.3
75°	248.1	239.1	219.3	192.4	187.0
77.5°	190.6	185.2	165.4	152.8	151.0
80°	138.4	136.6	120.4	116.9	116.9
82.5°	91.7	89.9	84.5	84.5	82.7
85°	50.3	52.1	53.9	53.9	53.9
87.5°	18.0	21.6	25.2	25.2	25.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)