

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: P297893

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297893
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-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4050.0 lumens
Efficiency: N/A
Efficacy: 101.5 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

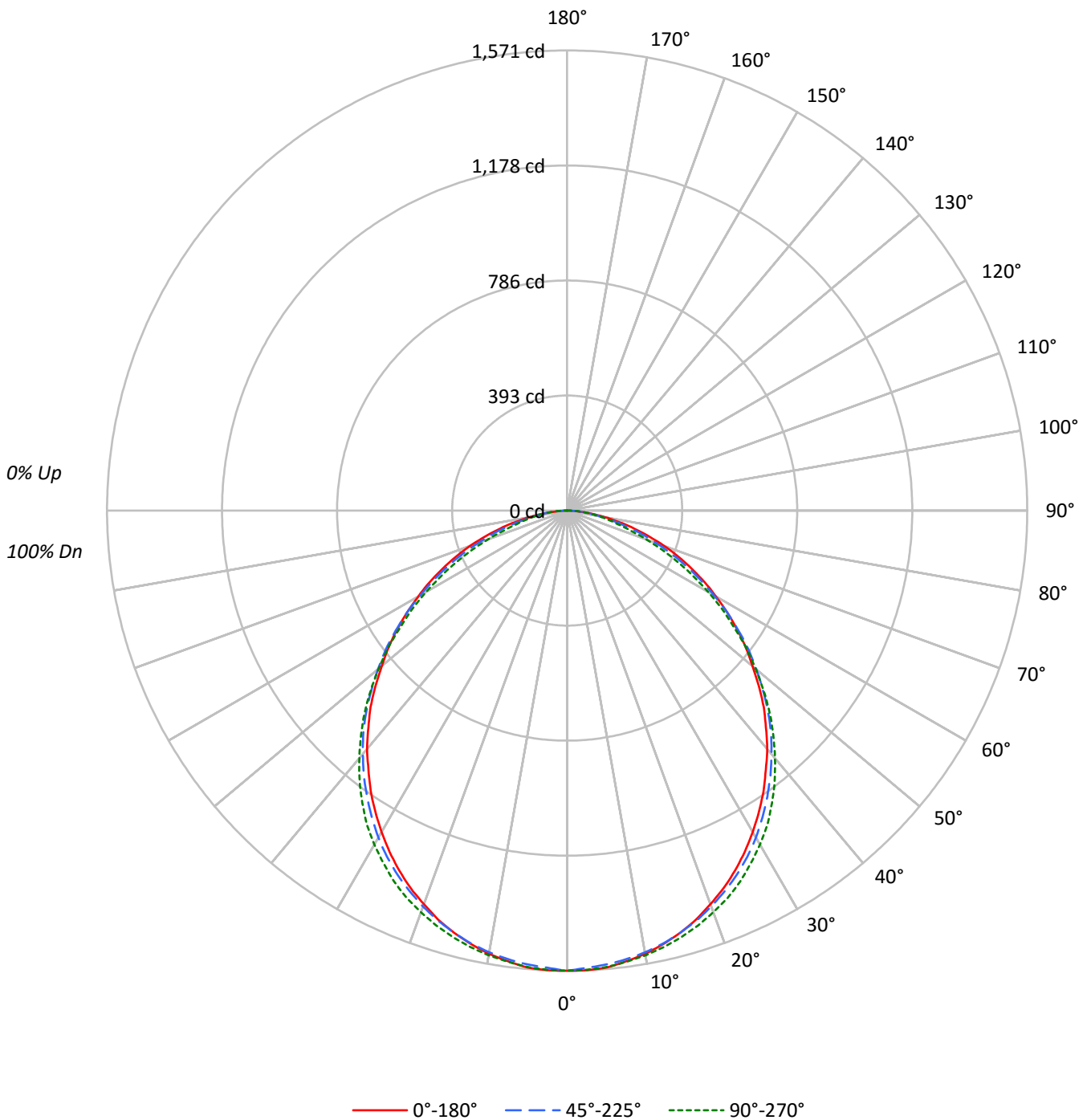
Input Watts (W): 39.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	31	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°	4227	4227	4227
5°	4229	4202	4225
10°	4198	4185	4213
15°	4156	4156	4199
20°	4095	4120	4179
25°	4027	4073	4149
30°	3937	4006	4092
35°	3841	3914	4004
40°	3733	3811	3878
45°	3613	3691	3724
50°	3457	3529	3514
55°	3326	3351	3262
60°	3160	3114	2993
65°	2984	2864	2667
70°	2769	2540	2256
75°	2463	2177	1856
80°	2049	1782	1729
85°	1485	1590	1590



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	3.7
10°-20°	422.3	10.4
20°-30°	632.9	15.6
30°-40°	745.7	18.4
40°-50°	743.7	18.4
50°-60°	632.6	15.6
60°-70°	441.5	10.9
70°-80°	224.4	5.5
80°-90°	58.6	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°	1203.4	29.7
0°-40°	1949.1	48.1
0°-60°	3325.4	82.1
0°-90°	4050.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4050.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1571	1571	1571	1571	1571	
5°	1566	1562	1555	1564	1564	148
15°	1492	1492	1492	1506	1507	421
25°	1356	1358	1372	1392	1398	624
35°	1169	1171	1191	1216	1219	730
45°	949	953	970	977	979	730
55°	709	709	714	704	695	633
65°	469	462	450	426	419	465
75°	237	228	209	184	178	252
85°	48	50	52	52	52	60
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.9	1570.9	1570.9	1570.9	1570.9
2.5°	1570.9	1569.1	1562.3	1569.1	1569.1
5°	1565.7	1562.3	1555.4	1564.0	1564.0
7.5°	1552.0	1550.3	1545.1	1553.7	1553.7
10°	1536.5	1534.8	1531.4	1541.7	1541.7
12.5°	1515.9	1515.9	1514.2	1524.5	1526.2
15°	1491.9	1491.9	1491.9	1505.6	1507.3
17.5°	1464.4	1462.7	1467.8	1483.3	1485.0
20°	1430.1	1431.8	1438.7	1455.8	1459.3
22.5°	1395.7	1397.5	1406.0	1426.6	1431.8
25°	1356.3	1358.0	1371.7	1392.3	1397.5
27.5°	1313.3	1316.8	1332.2	1354.5	1358.0
30°	1267.0	1270.4	1289.3	1311.6	1316.8
32.5°	1218.9	1224.1	1241.2	1265.3	1272.1
35°	1169.1	1170.8	1191.4	1215.5	1218.9
37.5°	1114.2	1119.3	1139.9	1160.5	1164.0
40°	1062.7	1066.1	1085.0	1102.2	1103.9
42.5°	1004.3	1009.5	1030.1	1042.1	1042.1
45°	949.4	952.8	970.0	976.8	978.6
47.5°	887.6	891.0	906.5	909.9	909.9
50°	825.8	834.4	842.9	842.9	839.5
52.5°	769.1	770.8	781.1	774.3	770.8
55°	709.0	709.0	714.2	703.9	695.3
57.5°	648.9	648.9	648.9	635.2	628.3
60°	587.1	585.4	578.6	561.4	556.2
62.5°	528.8	523.6	513.3	496.1	485.8
65°	468.7	461.8	449.8	425.8	418.9
67.5°	412.0	400.0	386.3	364.0	351.9
70°	351.9	341.6	322.8	297.0	286.7
72.5°	293.6	283.3	267.8	242.1	226.6
75°	236.9	228.3	209.4	183.7	178.5
77.5°	182.0	176.8	157.9	145.9	144.2
80°	132.2	130.5	115.0	111.6	111.6
82.5°	87.6	85.8	80.7	80.7	79.0
85°	48.1	49.8	51.5	51.5	51.5
87.5°	17.2	20.6	24.0	24.0	24.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)