

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: P297891

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297891
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-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3830.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

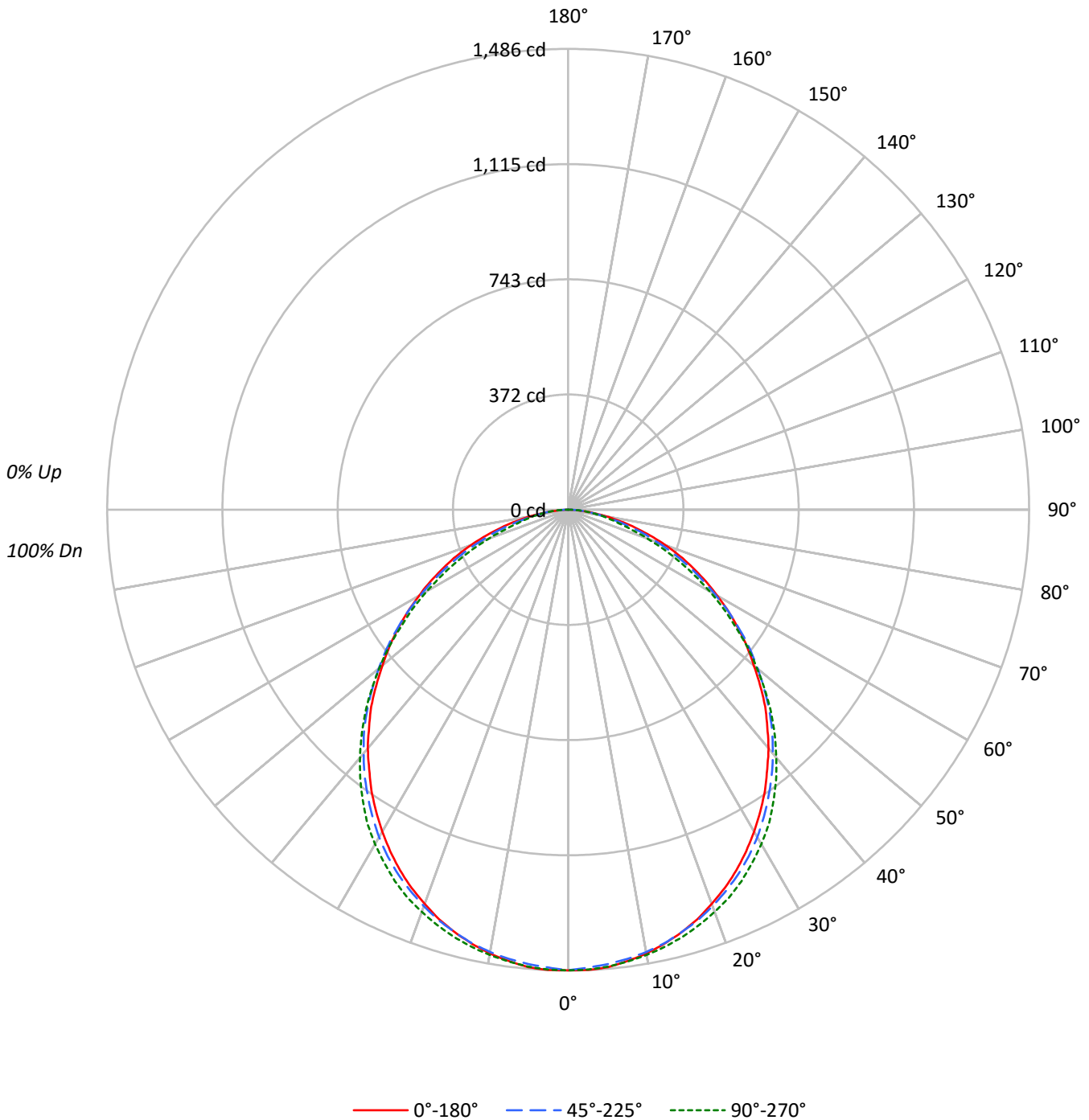
Input Watts (W): 39.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3997	3997	3997
5°	4000	3973	3995
10°	3971	3957	3984
15°	3930	3930	3971
20°	3873	3896	3952
25°	3808	3852	3924
30°	3723	3789	3869
35°	3632	3701	3787
40°	3530	3605	3667
45°	3417	3491	3522
50°	3269	3337	3324
55°	3146	3169	3085
60°	2988	2944	2831
65°	2822	2709	2522
70°	2618	2401	2133
75°	2329	2060	1755
80°	1937	1686	1635
85°	1405	1504	1504



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	3.7
10°-20°	399.3	10.4
20°-30°	598.5	15.6
30°-40°	705.2	18.4
40°-50°	703.3	18.4
50°-60°	598.2	15.6
60°-70°	417.5	10.9
70°-80°	212.2	5.5
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	29.7
0°-40°	1843.2	48.1
0°-60°	3144.8	82.1
0°-90°	3830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3830.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1486	1486	1486	1486	1486	
5°	1481	1477	1471	1479	1479	140
15°	1411	1411	1411	1424	1426	398
25°	1283	1284	1297	1317	1322	590
35°	1106	1107	1127	1150	1153	691
45°	898	901	917	924	925	691
55°	670	670	675	666	658	599
65°	443	437	425	403	396	440
75°	224	216	198	174	169	238
85°	46	47	49	49	49	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1485.5	1485.5	1485.5	1485.5	1485.5
2.5°	1485.5	1483.9	1477.4	1483.9	1483.9
5°	1480.7	1477.4	1470.9	1479.0	1479.0
7.5°	1467.7	1466.0	1461.2	1469.3	1469.3
10°	1453.1	1451.4	1448.2	1457.9	1457.9
12.5°	1433.6	1433.6	1431.9	1441.7	1443.3
15°	1410.8	1410.8	1410.8	1423.8	1425.5
17.5°	1384.9	1383.2	1388.1	1402.7	1404.3
20°	1352.4	1354.0	1360.5	1376.7	1380.0
22.5°	1319.9	1321.5	1329.7	1349.1	1354.0
25°	1282.6	1284.2	1297.2	1316.7	1321.5
27.5°	1242.0	1245.2	1259.9	1281.0	1284.2
30°	1198.2	1201.4	1219.3	1240.4	1245.2
32.5°	1152.7	1157.6	1173.8	1196.5	1203.0
35°	1105.6	1107.2	1126.7	1149.5	1152.7
37.5°	1053.7	1058.5	1078.0	1097.5	1100.7
40°	1005.0	1008.2	1026.1	1042.3	1043.9
42.5°	949.8	954.6	974.1	985.5	985.5
45°	897.8	901.1	917.3	923.8	925.4
47.5°	839.4	842.6	857.2	860.5	860.5
50°	780.9	789.0	797.2	797.2	793.9
52.5°	727.3	729.0	738.7	732.2	729.0
55°	670.5	670.5	675.4	665.6	657.5
57.5°	613.7	613.7	613.7	600.7	594.2
60°	555.2	553.6	547.1	530.9	526.0
62.5°	500.0	495.2	485.4	469.2	459.5
65°	443.2	436.7	425.4	402.6	396.1
67.5°	389.6	378.3	365.3	344.2	332.8
70°	332.8	323.1	305.2	280.9	271.1
72.5°	277.6	267.9	253.3	228.9	214.3
75°	224.0	215.9	198.1	173.7	168.8
77.5°	172.1	167.2	149.4	138.0	136.4
80°	125.0	123.4	108.8	105.5	105.5
82.5°	82.8	81.2	76.3	76.3	74.7
85°	45.5	47.1	48.7	48.7	48.7
87.5°	16.2	19.5	22.7	22.7	22.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)