

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: P297338

Luminaire Tested: **D3X-WO-42L82765-LD5-UNV-24-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297338
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-3000K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (504) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3978.0 lumens
Efficiency: N/A
Efficacy: 137.6 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

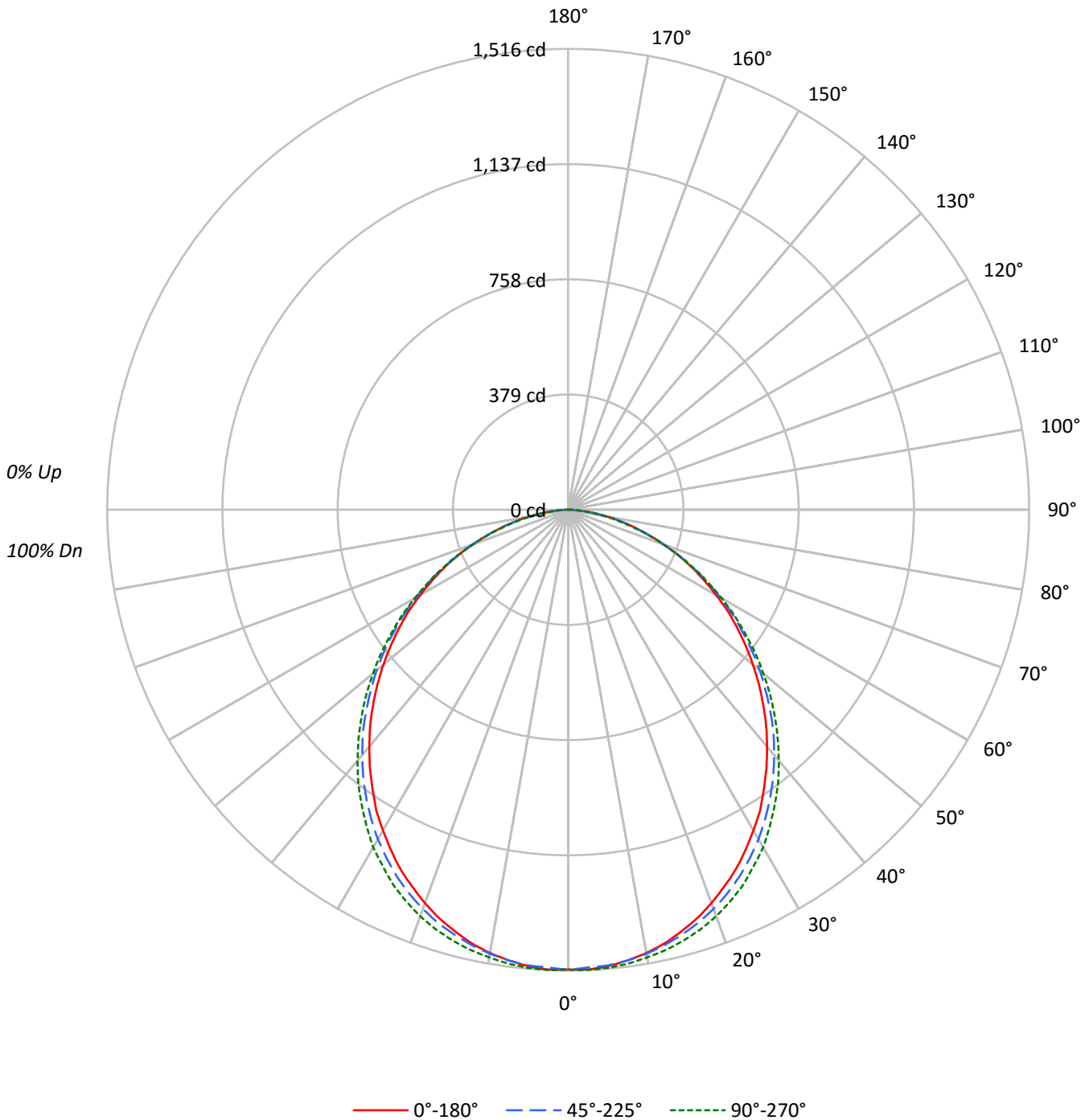
Input Watts (W): 28.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2036	2036	2036
5°	2036	2033	2043
10°	2023	2027	2043
15°	2001	2016	2044
20°	1973	2001	2038
25°	1938	1977	2021
30°	1892	1945	1992
35°	1842	1902	1946
40°	1786	1850	1892
45°	1726	1790	1828
50°	1661	1722	1753
55°	1591	1641	1666
60°	1511	1551	1569
65°	1425	1446	1455
70°	1307	1323	1307
75°	1177	1170	1135
80°	996	986	955
85°	744	724	641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.2	3.6
10°-20°	409.2	10.3
20°-30°	613.5	15.4
30°-40°	722.5	18.2
40°-50°	722.6	18.2
50°-60°	623.5	15.7
60°-70°	448.7	11.3
70°-80°	238.0	6.0
80°-90°	56.8	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°	1165.9	29.3
0°-40°	1888.5	47.5
0°-60°	3234.6	81.3
0°-90°	3978.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3978.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1513	1513	1513	1513	1513	
5°	1508	1506	1505	1510	1513	143
15°	1436	1440	1447	1462	1467	405
25°	1305	1313	1332	1355	1362	600
35°	1122	1135	1158	1178	1185	702
45°	907	919	941	957	961	700
55°	678	685	700	712	710	607
65°	448	449	454	457	457	443
75°	226	224	225	220	218	241
85°	48	48	47	43	42	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1512.9	1512.9	1512.9	1512.9	1512.9
2.5°	1514.2	1511.6	1507.5	1512.9	1515.6
5°	1507.5	1506.2	1504.9	1510.2	1512.9
7.5°	1495.5	1496.8	1495.5	1503.5	1506.2
10°	1480.7	1482.1	1483.4	1492.8	1495.5
12.5°	1462.0	1463.3	1467.3	1479.4	1483.4
15°	1436.5	1440.5	1447.2	1462.0	1467.3
17.5°	1409.7	1415.1	1424.5	1441.9	1447.2
20°	1377.6	1384.3	1397.7	1416.4	1423.1
22.5°	1341.4	1348.1	1366.8	1386.9	1393.6
25°	1305.2	1313.2	1332.0	1354.8	1361.5
27.5°	1262.3	1273.0	1293.1	1315.9	1321.3
30°	1218.1	1227.5	1251.6	1273.0	1282.4
32.5°	1173.9	1183.3	1206.0	1227.5	1234.2
35°	1121.6	1135.0	1157.8	1177.9	1184.6
37.5°	1070.7	1082.8	1106.9	1127.0	1133.7
40°	1017.1	1027.8	1053.3	1072.0	1077.4
42.5°	963.5	974.2	999.7	1014.4	1019.8
45°	907.2	919.3	940.7	956.8	960.8
47.5°	850.9	860.3	880.4	895.1	900.5
50°	793.3	802.7	822.8	834.8	837.5
52.5°	735.7	742.4	761.1	771.9	775.9
55°	678.1	684.8	699.5	711.6	710.2
57.5°	623.1	625.8	640.5	648.6	648.6
60°	561.5	564.2	576.2	581.6	582.9
62.5°	503.9	507.9	517.3	518.6	518.6
65°	447.6	448.9	454.3	457.0	457.0
67.5°	391.3	390.0	395.3	395.3	394.0
70°	332.3	335.0	336.4	333.7	332.3
72.5°	278.7	277.4	277.4	276.0	276.0
75°	226.5	223.8	225.1	219.8	218.4
77.5°	178.2	174.2	172.9	170.2	167.5
80°	128.6	128.6	127.3	124.6	123.3
82.5°	85.8	85.8	84.4	81.7	79.1
85°	48.2	48.2	46.9	42.9	41.5
87.5°	16.1	16.1	16.1	16.1	16.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)