

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: P298373

Luminaire Tested: **D3X-WO-40L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
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-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3911.0 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

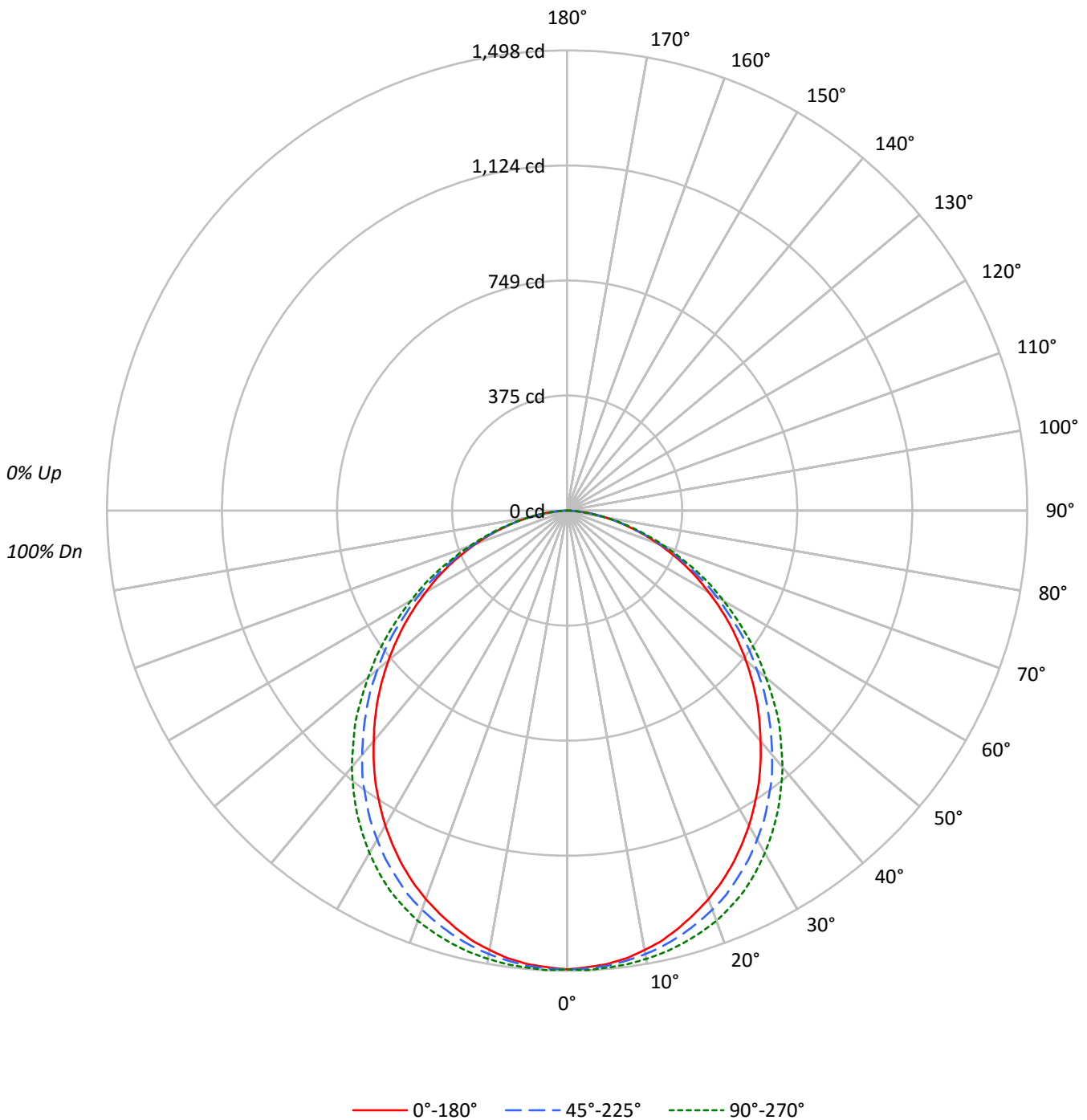
Input Watts (W): 32.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	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	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	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	31	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4019	4019	4019
5°	4003	4019	4035
10°	3969	4007	4049
15°	3917	3987	4063
20°	3853	3959	4071
25°	3776	3909	4053
30°	3679	3842	4000
35°	3570	3755	3928
40°	3441	3646	3831
45°	3320	3520	3713
50°	3179	3375	3538
55°	3033	3216	3371
60°	2861	3029	3165
65°	2703	2802	2939
70°	2482	2559	2651
75°	2207	2268	2328
80°	1901	1870	1870
85°	1442	1321	1201



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.6
10°-20°	403.8	10.3
20°-30°	606.3	15.5
30°-40°	713.6	18.2
40°-50°	711.8	18.2
50°-60°	610.8	15.6
60°-70°	437.5	11.2
70°-80°	231.7	5.9
80°-90°	54.2	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°	1151.5	29.4
0°-40°	1865.1	47.7
0°-60°	3187.7	81.5
0°-90°	3911.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3911.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1494	1494	1494	1494	1494	
5°	1482	1482	1488	1492	1494	141
15°	1406	1412	1431	1451	1458	396
25°	1272	1283	1316	1350	1365	585
35°	1087	1100	1143	1182	1196	679
45°	872	886	925	958	976	672
55°	646	656	685	709	719	578
65°	424	426	440	458	462	419
75°	212	212	218	222	224	228
85°	47	45	43	39	39	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1493.6	1493.6	1493.6	1493.6	1493.6
2.5°	1487.7	1487.7	1491.6	1495.5	1497.5
5°	1481.9	1481.9	1487.7	1491.6	1493.6
7.5°	1470.2	1470.2	1478.0	1485.8	1489.7
10°	1452.7	1456.6	1466.3	1478.0	1481.9
12.5°	1433.2	1437.1	1450.7	1466.3	1472.2
15°	1405.9	1411.8	1431.3	1450.7	1458.5
17.5°	1376.7	1384.5	1407.9	1431.3	1441.0
20°	1345.6	1353.4	1382.6	1409.8	1421.5
22.5°	1310.5	1320.3	1353.4	1382.6	1394.3
25°	1271.6	1283.3	1316.4	1349.5	1365.1
27.5°	1228.7	1242.4	1279.4	1314.4	1328.1
30°	1184.0	1199.5	1236.5	1273.5	1287.2
32.5°	1135.3	1148.9	1193.7	1228.7	1242.4
35°	1086.6	1100.2	1143.1	1182.0	1195.6
37.5°	1034.0	1051.5	1094.4	1129.4	1143.1
40°	979.5	997.0	1037.9	1078.8	1090.5
42.5°	926.9	942.5	981.4	1018.4	1030.1
45°	872.4	886.0	925.0	958.1	975.6
47.5°	815.9	829.5	868.5	899.7	909.4
50°	759.4	773.1	806.2	833.4	845.1
52.5°	703.0	716.6	747.8	773.1	784.8
55°	646.5	656.2	685.4	708.8	718.6
57.5°	590.0	597.8	621.2	646.5	652.3
60°	531.6	541.3	562.8	580.3	588.1
62.5°	479.0	482.9	502.4	518.0	527.7
65°	424.5	426.5	440.1	457.6	461.5
67.5°	368.0	370.0	383.6	393.4	397.2
70°	315.5	315.5	325.2	333.0	336.9
72.5°	264.8	262.9	268.7	276.5	280.4
75°	212.3	212.3	218.1	222.0	223.9
77.5°	167.5	163.6	167.5	171.4	171.4
80°	122.7	120.7	120.7	122.7	120.7
82.5°	83.7	81.8	83.7	79.8	77.9
85°	46.7	44.8	42.8	38.9	38.9
87.5°	15.6	13.6	13.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)