

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: P298386

Luminaire Tested: **D3X-WO-44L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298386
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-44L82765-LD5-UNV-22-T1-W2A-5500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4560.0 lumens
Efficiency: N/A
Efficacy: 124.6 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

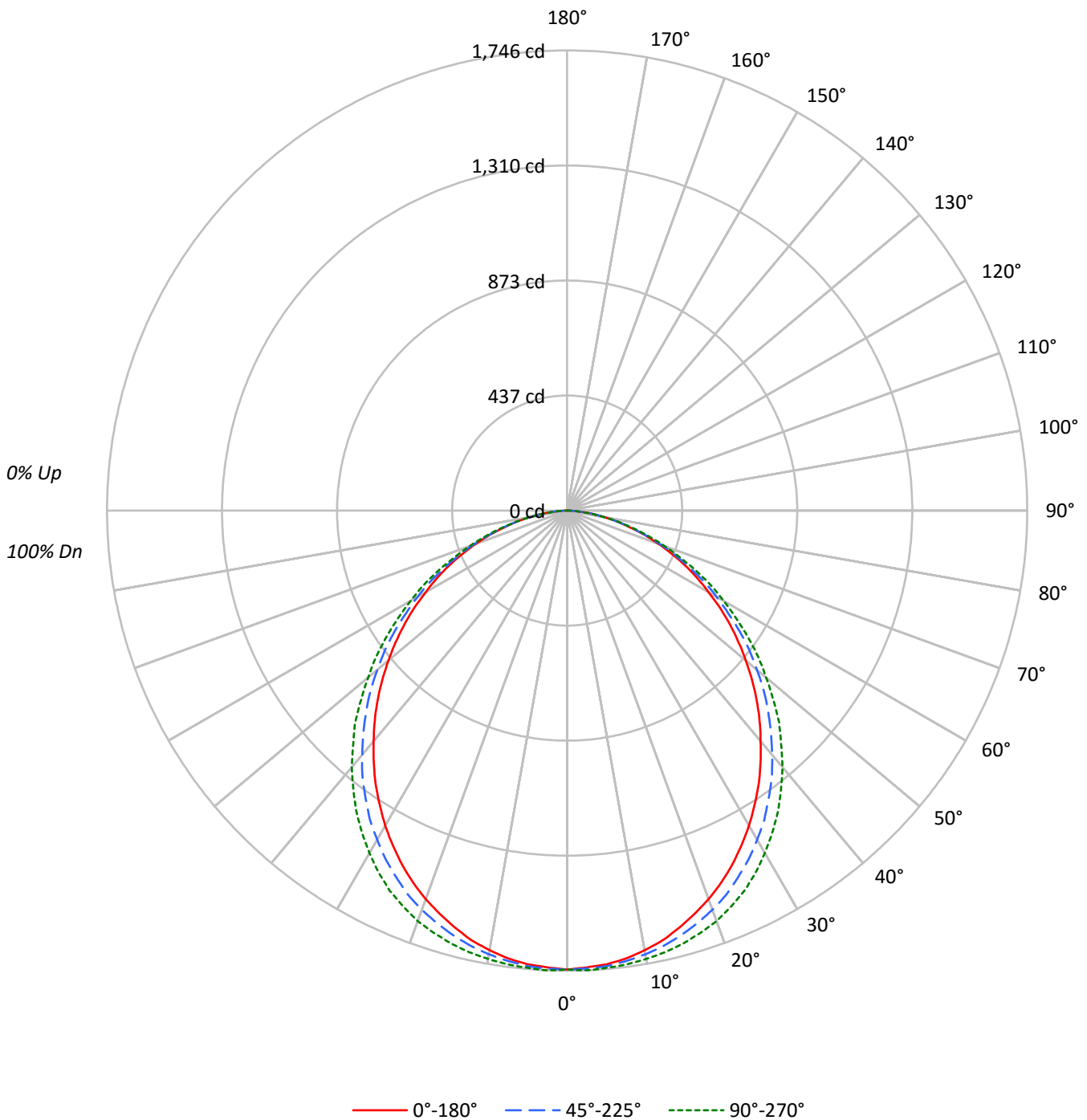
Input Watts (W): 36.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4686	4686	4686
5°	4667	4686	4704
10°	4628	4671	4721
15°	4567	4649	4738
20°	4493	4616	4746
25°	4402	4557	4726
30°	4289	4480	4663
35°	4162	4378	4579
40°	4012	4251	4466
45°	3871	4104	4329
50°	3707	3935	4125
55°	3537	3750	3931
60°	3336	3532	3690
65°	3152	3267	3426
70°	2894	2984	3091
75°	2573	2644	2715
80°	2216	2182	2182
85°	1683	1541	1402



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	164.8	3.6
10°-20°	470.9	10.3
20°-30°	706.9	15.5
30°-40°	832.0	18.2
40°-50°	829.9	18.2
50°-60°	712.2	15.6
60°-70°	510.1	11.2
70°-80°	270.1	5.9
80°-90°	63.2	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°	1342.6	29.4
0°-40°	2174.6	47.7
0°-60°	3716.7	81.5
0°-90°	4560.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4560.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1741	1741	1741	1741	1741	
5°	1728	1728	1735	1739	1741	164
15°	1639	1646	1669	1692	1701	462
25°	1483	1496	1535	1573	1592	682
35°	1267	1283	1333	1378	1394	791
45°	1017	1033	1078	1117	1138	784
55°	754	765	799	826	838	674
65°	495	497	513	534	538	489
75°	248	248	254	259	261	265
85°	54	52	50	45	45	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1741.4	1741.4	1741.4	1741.4	1741.4
2.5°	1734.6	1734.6	1739.2	1743.7	1746.0
5°	1727.8	1727.8	1734.6	1739.2	1741.4
7.5°	1714.2	1714.2	1723.3	1732.3	1736.9
10°	1693.7	1698.3	1709.6	1723.3	1727.8
12.5°	1671.0	1675.6	1691.5	1709.6	1716.4
15°	1639.3	1646.1	1668.8	1691.5	1700.6
17.5°	1605.2	1614.3	1641.5	1668.8	1680.1
20°	1568.9	1578.0	1612.0	1643.8	1657.4
22.5°	1528.0	1539.4	1578.0	1612.0	1625.6
25°	1482.6	1496.2	1534.8	1573.4	1591.6
27.5°	1432.6	1448.5	1491.7	1532.5	1548.4
30°	1380.4	1398.6	1441.7	1484.9	1500.8
32.5°	1323.7	1339.6	1391.8	1432.6	1448.5
35°	1266.9	1282.8	1332.7	1378.2	1394.0
37.5°	1205.6	1226.0	1276.0	1316.9	1332.7
40°	1142.0	1162.5	1210.1	1257.8	1271.4
42.5°	1080.7	1098.9	1144.3	1187.4	1201.1
45°	1017.2	1033.0	1078.5	1117.1	1137.5
47.5°	951.3	967.2	1012.6	1048.9	1060.3
50°	885.5	901.4	940.0	971.7	985.4
52.5°	819.6	835.5	871.8	901.4	915.0
55°	753.8	765.1	799.2	826.4	837.8
57.5°	687.9	697.0	724.3	753.8	760.6
60°	619.8	631.2	656.2	676.6	685.7
62.5°	558.5	563.1	585.8	603.9	615.3
65°	495.0	497.2	513.1	533.6	538.1
67.5°	429.1	431.4	447.3	458.6	463.2
70°	367.8	367.8	379.2	388.2	392.8
72.5°	308.8	306.5	313.3	322.4	326.9
75°	247.5	247.5	254.3	258.8	261.1
77.5°	195.3	190.7	195.3	199.8	199.8
80°	143.0	140.8	140.8	143.0	140.8
82.5°	97.6	95.4	97.6	93.1	90.8
85°	54.5	52.2	49.9	45.4	45.4
87.5°	18.2	15.9	15.9	18.2	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)