

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: P298382

Luminaire Tested: **D3X-WO-44L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298382
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-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: 4283.0 lumens
Efficiency: N/A
Efficacy: 119.6 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

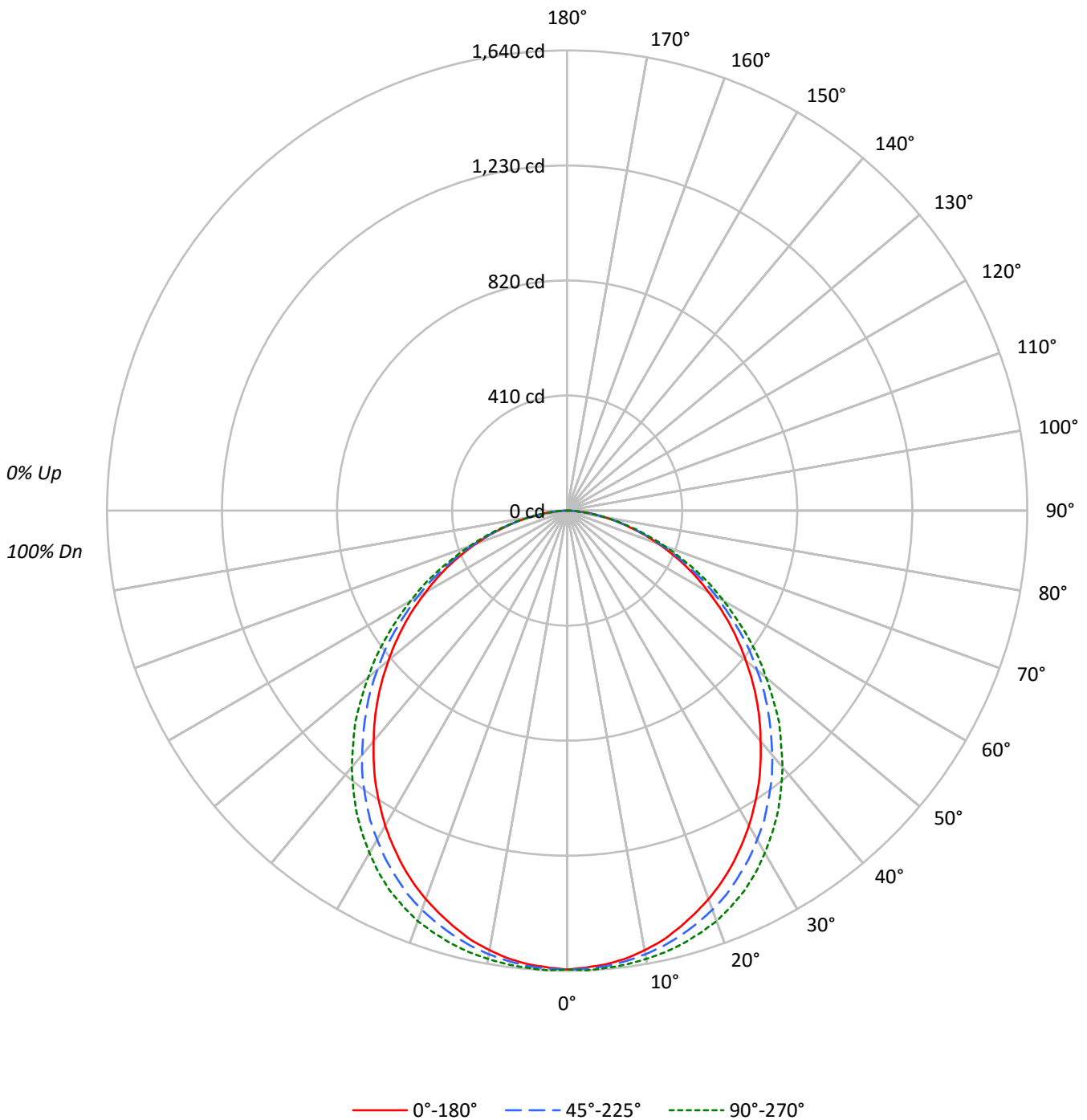
Input Watts (W): 35.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4401	4401	4401
5°	4384	4401	4418
10°	4347	4388	4434
15°	4289	4367	4450
20°	4220	4336	4458
25°	4135	4280	4439
30°	4029	4208	4380
35°	3909	4112	4301
40°	3768	3993	4195
45°	3636	3855	4066
50°	3482	3696	3875
55°	3322	3521	3692
60°	3133	3317	3466
65°	2960	3068	3218
70°	2718	2802	2902
75°	2416	2483	2549
80°	2081	2049	2049
85°	1581	1448	1318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.7	3.6
10°-20°	442.3	10.3
20°-30°	664.0	15.5
30°-40°	781.5	18.2
40°-50°	779.5	18.2
50°-60°	668.9	15.6
60°-70°	479.1	11.2
70°-80°	253.7	5.9
80°-90°	59.3	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°	1261.0	29.4
0°-40°	2042.5	47.7
0°-60°	3490.9	81.5
0°-90°	4283.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4283.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1636	1636	1636	1636	1636	
5°	1623	1623	1629	1634	1636	154
15°	1540	1546	1567	1589	1597	434
25°	1392	1405	1442	1478	1495	641
35°	1190	1205	1252	1294	1309	743
45°	955	970	1013	1049	1068	736
55°	708	719	751	776	787	633
65°	465	467	482	501	505	459
75°	232	232	239	243	245	249
85°	51	49	47	43	43	62
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1635.6	1635.6	1635.6	1635.6	1635.6
2.5°	1629.2	1629.2	1633.5	1637.8	1639.9
5°	1622.8	1622.8	1629.2	1633.5	1635.6
7.5°	1610.0	1610.0	1618.6	1627.1	1631.4
10°	1590.9	1595.1	1605.8	1618.6	1622.8
12.5°	1569.5	1573.8	1588.7	1605.8	1612.2
15°	1539.7	1546.1	1567.4	1588.7	1597.3
17.5°	1507.7	1516.2	1541.8	1567.4	1578.1
20°	1473.6	1482.1	1514.1	1543.9	1556.7
22.5°	1435.2	1445.8	1482.1	1514.1	1526.9
25°	1392.5	1405.3	1441.6	1477.8	1494.9
27.5°	1345.6	1360.5	1401.1	1439.4	1454.4
30°	1296.6	1313.6	1354.1	1394.7	1409.6
32.5°	1243.3	1258.2	1307.2	1345.6	1360.5
35°	1189.9	1204.9	1251.8	1294.4	1309.4
37.5°	1132.4	1151.6	1198.5	1236.9	1251.8
40°	1072.7	1091.8	1136.6	1181.4	1194.2
42.5°	1015.1	1032.1	1074.8	1115.3	1128.1
45°	955.4	970.3	1012.9	1049.2	1068.4
47.5°	893.5	908.5	951.1	985.2	995.9
50°	831.7	846.6	882.9	912.7	925.5
52.5°	769.8	784.8	818.9	846.6	859.4
55°	708.0	718.7	750.6	776.2	786.9
57.5°	646.2	654.7	680.3	708.0	714.4
60°	582.2	592.8	616.3	635.5	644.0
62.5°	524.6	528.9	550.2	567.2	577.9
65°	464.9	467.0	481.9	501.1	505.4
67.5°	403.0	405.2	420.1	430.8	435.0
70°	345.5	345.5	356.1	364.7	368.9
72.5°	290.0	287.9	294.3	302.8	307.1
75°	232.4	232.4	238.8	243.1	245.2
77.5°	183.4	179.1	183.4	187.7	187.7
80°	134.3	132.2	132.2	134.3	132.2
82.5°	91.7	89.6	91.7	87.4	85.3
85°	51.2	49.0	46.9	42.7	42.7
87.5°	17.1	14.9	14.9	17.1	17.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)