

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: P298332

Luminaire Tested: **D3X-WO-44L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298332
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-44L83050-LD5-UNV-22-T1-W2A-4000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4604.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

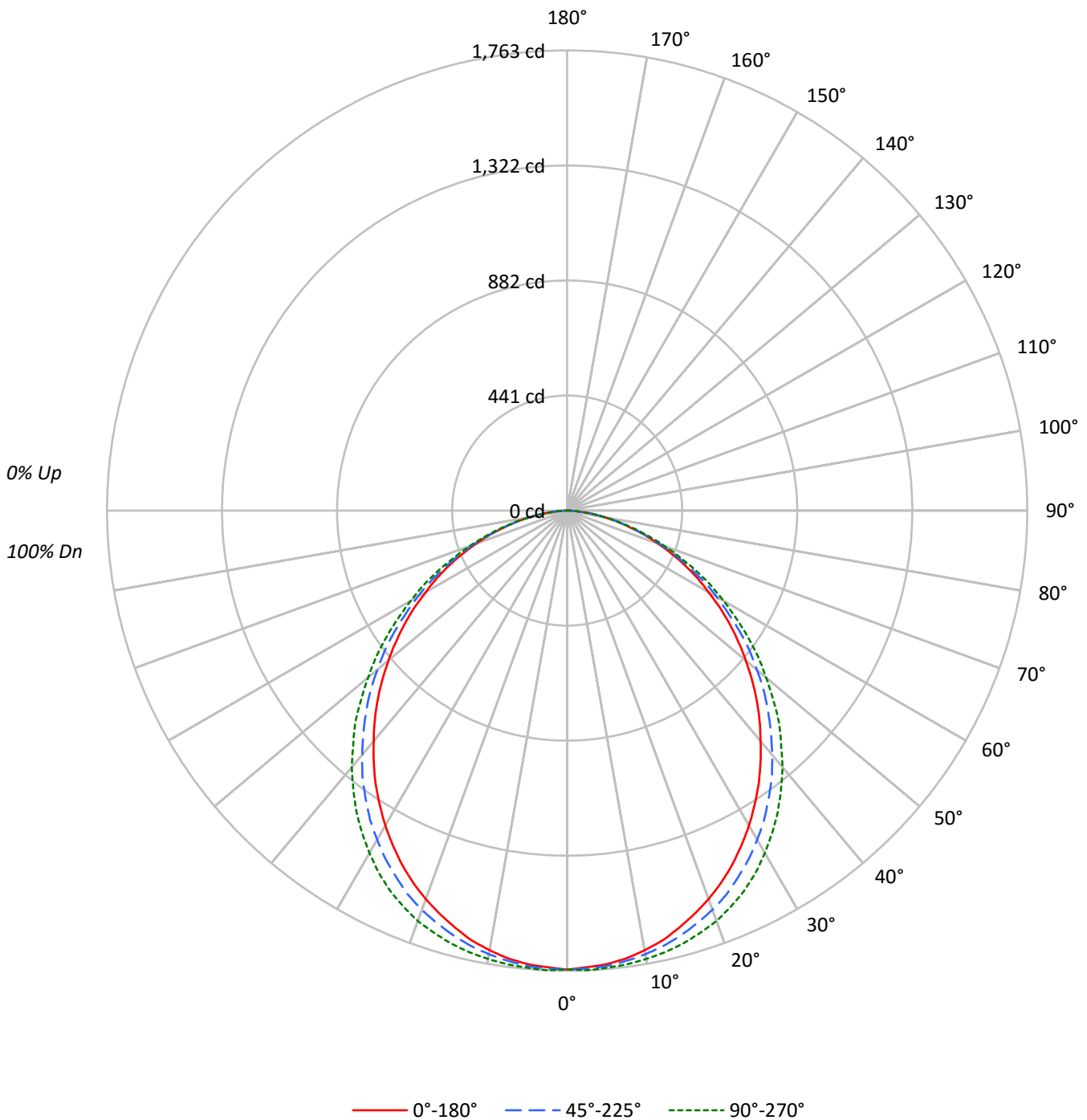
Input Watts (W): 36.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4731	4731	4731
5°	4712	4731	4749
10°	4673	4717	4767
15°	4611	4694	4783
20°	4536	4661	4792
25°	4445	4601	4771
30°	4331	4523	4708
35°	4202	4420	4624
40°	4050	4292	4509
45°	3908	4144	4371
50°	3743	3973	4165
55°	3571	3786	3969
60°	3368	3566	3726
65°	3182	3299	3459
70°	2922	3012	3120
75°	2598	2669	2741
80°	2238	2202	2202
85°	1698	1556	1414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.3	3.6
10°-20°	475.4	10.3
20°-30°	713.8	15.5
30°-40°	840.1	18.2
40°-50°	837.9	18.2
50°-60°	719.1	15.6
60°-70°	515.0	11.2
70°-80°	272.7	5.9
80°-90°	63.8	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°	1355.5	29.4
0°-40°	2195.6	47.7
0°-60°	3752.5	81.5
0°-90°	4604.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4604.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1758	1758	1758	1758	1758	
5°	1744	1744	1751	1756	1758	165
15°	1655	1662	1685	1708	1717	467
25°	1497	1511	1550	1589	1607	689
35°	1279	1295	1346	1392	1408	799
45°	1027	1043	1089	1128	1148	791
55°	761	772	807	834	846	680
65°	500	502	518	539	543	494
75°	250	250	257	261	264	268
85°	55	53	50	46	46	66
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1758.2	1758.2	1758.2	1758.2	1758.2
2.5°	1751.3	1751.3	1755.9	1760.5	1762.8
5°	1744.5	1744.5	1751.3	1755.9	1758.2
7.5°	1730.7	1730.7	1739.9	1749.1	1753.6
10°	1710.1	1714.7	1726.1	1739.9	1744.5
12.5°	1687.2	1691.7	1707.8	1726.1	1733.0
15°	1655.1	1661.9	1684.9	1707.8	1717.0
17.5°	1620.7	1629.9	1657.4	1684.9	1696.3
20°	1584.0	1593.2	1627.6	1659.7	1673.4
22.5°	1542.7	1554.2	1593.2	1627.6	1641.3
25°	1496.9	1510.7	1549.6	1588.6	1606.9
27.5°	1446.5	1462.5	1506.1	1547.3	1563.4
30°	1393.7	1412.1	1455.6	1499.2	1515.2
32.5°	1336.4	1352.5	1405.2	1446.5	1462.5
35°	1279.1	1295.2	1345.6	1391.5	1407.5
37.5°	1217.2	1237.9	1288.3	1329.6	1345.6
40°	1153.0	1173.7	1221.8	1270.0	1283.7
42.5°	1091.2	1109.5	1155.3	1198.9	1212.6
45°	1027.0	1043.0	1088.9	1127.8	1148.5
47.5°	960.5	976.5	1022.4	1059.1	1070.5
50°	894.0	910.1	949.0	981.1	994.9
52.5°	827.5	843.6	880.3	910.1	923.8
55°	761.1	772.5	806.9	834.4	845.9
57.5°	694.6	703.7	731.3	761.1	767.9
60°	625.8	637.3	662.5	683.1	692.3
62.5°	563.9	568.5	591.4	609.8	621.2
65°	499.7	502.0	518.1	538.7	543.3
67.5°	433.3	435.5	451.6	463.1	467.6
70°	371.4	371.4	382.8	392.0	396.6
72.5°	311.8	309.5	316.3	325.5	330.1
75°	249.9	249.9	256.7	261.3	263.6
77.5°	197.1	192.6	197.1	201.7	201.7
80°	144.4	142.1	142.1	144.4	142.1
82.5°	98.6	96.3	98.6	94.0	91.7
85°	55.0	52.7	50.4	45.8	45.8
87.5°	18.3	16.0	16.0	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)