

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: P298330

Luminaire Tested: **D3X-WO-44L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298330
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4144.0 lumens
Efficiency: N/A
Efficacy: 116.7 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

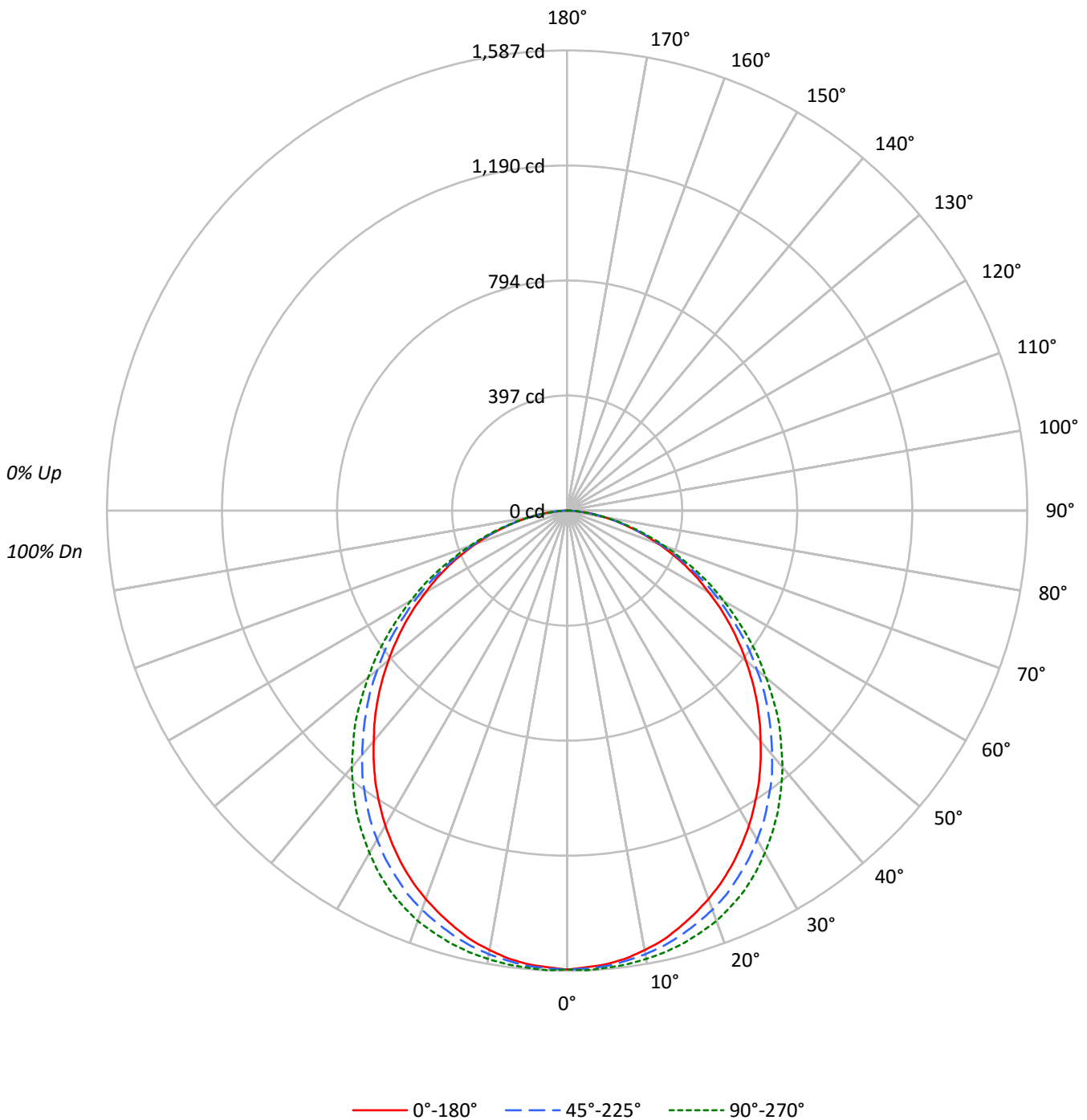
Input Watts (W): 35.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P298330

CATALOG NUMBER: D3X-WO-44L83050-LD5-UNV-22-T1-W2A-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P298330

CATALOG NUMBER: D3X-WO-44L83050-LD5-UNV-22-T1-W2A-3000K

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°	4259	4259	4259
5°	4242	4258	4275
10°	4206	4245	4291
15°	4150	4225	4305
20°	4083	4195	4313
25°	4000	4141	4295
30°	3898	4071	4238
35°	3782	3979	4162
40°	3646	3863	4059
45°	3518	3730	3934
50°	3369	3576	3749
55°	3214	3407	3572
60°	3032	3209	3353
65°	2864	2969	3114
70°	2630	2711	2809
75°	2338	2403	2467
80°	2015	1982	1982
85°	1528	1402	1275



TEST NUMBER: P298330

CATALOG NUMBER: D3X-WO-44L83050-LD5-UNV-22-T1-W2A-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.7	3.6
10°-20°	427.9	10.3
20°-30°	642.5	15.5
30°-40°	756.1	18.2
40°-50°	754.2	18.2
50°-60°	647.2	15.6
60°-70°	463.5	11.2
70°-80°	245.5	5.9
80°-90°	57.4	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°	1220.1	29.4
0°-40°	1976.2	47.7
0°-60°	3377.6	81.5
0°-90°	4144.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4144.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1583	1583	1583	1583	1583	
5°	1570	1570	1576	1580	1583	149
15°	1490	1496	1516	1537	1545	420
25°	1347	1360	1395	1430	1446	620
35°	1151	1166	1211	1252	1267	719
45°	924	939	980	1015	1034	712
55°	685	695	726	751	761	612
65°	450	452	466	485	489	444
75°	225	225	231	235	237	241
85°	50	48	45	41	41	60
90°	0	0	0	0	0	



TEST NUMBER: P298330

CATALOG NUMBER: D3X-WO-44L83050-LD5-UNV-22-T1-W2A-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1582.6	1582.6	1582.6	1582.6	1582.6
2.5°	1576.4	1576.4	1580.5	1584.6	1586.7
5°	1570.2	1570.2	1576.4	1580.5	1582.6
7.5°	1557.8	1557.8	1566.0	1574.3	1578.4
10°	1539.2	1543.4	1553.7	1566.0	1570.2
12.5°	1518.6	1522.7	1537.2	1553.7	1559.9
15°	1489.7	1495.9	1516.5	1537.2	1545.4
17.5°	1458.8	1467.0	1491.8	1516.5	1526.8
20°	1425.7	1434.0	1464.9	1493.8	1506.2
22.5°	1388.6	1398.9	1434.0	1464.9	1477.3
25°	1347.3	1359.7	1394.8	1429.9	1446.4
27.5°	1301.9	1316.4	1355.6	1392.7	1407.2
30°	1254.5	1271.0	1310.2	1349.4	1363.8
32.5°	1202.9	1217.4	1264.8	1301.9	1316.4
35°	1151.3	1165.8	1211.2	1252.4	1266.9
37.5°	1095.6	1114.2	1159.6	1196.7	1211.2
40°	1037.8	1056.4	1099.7	1143.1	1155.5
42.5°	982.1	998.6	1039.9	1079.1	1091.5
45°	924.4	938.8	980.1	1015.1	1033.7
47.5°	864.5	879.0	920.2	953.2	963.6
50°	804.7	819.1	854.2	883.1	895.5
52.5°	744.9	759.3	792.3	819.1	831.5
55°	685.0	695.3	726.3	751.0	761.4
57.5°	625.2	633.4	658.2	685.0	691.2
60°	563.3	573.6	596.3	614.9	623.1
62.5°	507.6	511.7	532.3	548.8	559.2
65°	449.8	451.9	466.3	484.9	489.0
67.5°	390.0	392.0	406.5	416.8	420.9
70°	334.3	334.3	344.6	352.8	357.0
72.5°	280.6	278.5	284.7	293.0	297.1
75°	224.9	224.9	231.1	235.2	237.3
77.5°	177.4	173.3	177.4	181.6	181.6
80°	130.0	127.9	127.9	130.0	127.9
82.5°	88.7	86.7	88.7	84.6	82.5
85°	49.5	47.5	45.4	41.3	41.3
87.5°	16.5	14.4	14.4	16.5	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)