

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: P298165

Luminaire Tested: **D3X-WG-44L83050-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-44L83050-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4361.0 lumens  
Efficiency: N/A  
Efficacy: 116.6 lumens/watt  
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

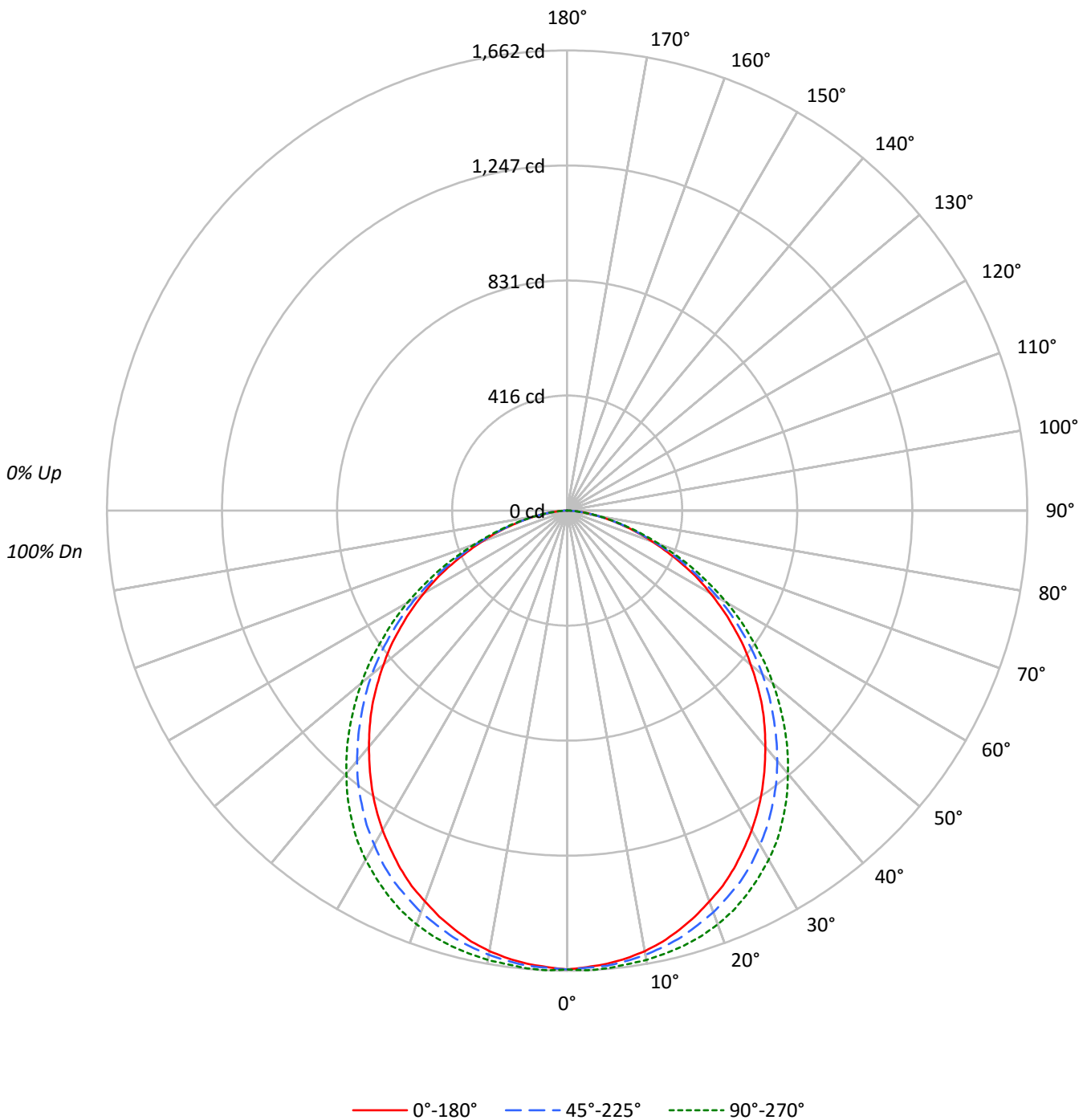
Input Watts (W): 37.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	99	96	98	95	93		95	92	90		91	89	87	85
2	100	92	86	80	97	90	84	79	87	82	77		83	79	76		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	64		71	67	63	61
4	84	72	64	57	82	71	63	57	68	61	56		66	60	55		64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49		59	53	48		58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43		54	47	42		52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38		49	43	38		48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34		45	39	34		44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31		42	35	30		41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28		39	32	28		38	32	28	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4460	4460	4460
5°	4439	4458	4483
10°	4415	4453	4503
15°	4366	4443	4533
20°	4302	4421	4554
25°	4233	4392	4550
30°	4143	4330	4524
35°	4038	4251	4463
40°	3911	4147	4358
45°	3788	4008	4228
50°	3624	3857	4060
55°	3442	3638	3833
60°	3214	3388	3588
65°	2933	3065	3242
70°	2568	2677	2786
75°	2190	2239	2334
80°	1757	1793	1829
85°	1288	1213	1142



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	156.9	3.6
10°-20°	450.2	10.3
20°-30°	680.6	15.6
30°-40°	808.4	18.5
40°-50°	811.6	18.6
50°-60°	693.3	15.9
60°-70°	477.6	11.0
70°-80°	231.6	5.3
80°-90°	50.7	1.2
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°	1287.7	29.5
0°-40°	2096.2	48.1
0°-60°	3601.1	82.6
0°-90°	4361.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4361.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1657	1657	1657	1657	1657	
5°	1643	1643	1650	1655	1660	156
15°	1567	1574	1595	1616	1627	442
25°	1426	1437	1479	1518	1532	656
35°	1229	1248	1294	1342	1359	768
45°	995	1009	1053	1097	1111	766
55°	734	745	775	808	817	656
65°	461	461	481	502	509	456
75°	211	206	215	220	224	226
85°	42	42	39	37	37	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1657.3	1657.3	1657.3	1657.3	1657.3
2.5°	1650.3	1650.3	1652.7	1659.6	1661.9
5°	1643.4	1643.4	1650.3	1655.0	1659.6
7.5°	1631.8	1634.1	1641.1	1650.3	1652.7
10°	1615.6	1617.9	1629.5	1641.1	1648.0
12.5°	1594.8	1599.4	1613.3	1631.8	1638.8
15°	1567.0	1574.0	1594.8	1615.6	1627.2
17.5°	1536.9	1546.2	1569.3	1599.4	1611.0
20°	1502.2	1513.8	1543.9	1576.3	1590.2
22.5°	1467.5	1476.7	1511.5	1548.5	1564.7
25°	1425.8	1437.4	1479.1	1518.4	1532.3
27.5°	1379.5	1395.7	1439.7	1481.4	1495.3
30°	1333.2	1347.1	1393.4	1439.7	1455.9
32.5°	1282.3	1296.2	1347.1	1393.4	1411.9
35°	1229.1	1247.6	1293.9	1342.5	1358.7
37.5°	1171.2	1192.0	1240.6	1282.3	1303.1
40°	1113.3	1131.9	1180.5	1224.4	1240.6
42.5°	1055.5	1071.7	1118.0	1164.3	1178.2
45°	995.3	1009.2	1053.2	1097.1	1111.0
47.5°	930.5	946.7	988.3	1025.4	1041.6
50°	865.7	881.9	921.2	955.9	969.8
52.5°	803.2	812.4	849.5	881.9	898.1
55°	733.7	745.3	775.4	807.8	817.1
57.5°	666.6	673.6	703.6	731.4	745.3
60°	597.2	601.8	629.6	650.4	666.6
62.5°	532.4	532.4	553.2	576.3	585.6
65°	460.6	460.6	481.4	502.3	509.2
67.5°	391.2	395.8	409.7	425.9	430.5
70°	326.4	326.4	340.3	351.8	354.1
72.5°	268.5	266.2	273.1	282.4	287.0
75°	210.6	206.0	215.3	219.9	224.5
77.5°	159.7	157.4	162.0	166.7	166.7
80°	113.4	111.1	115.7	115.7	118.0
82.5°	74.1	76.4	76.4	74.1	71.8
85°	41.7	41.7	39.3	37.0	37.0
87.5°	13.9	13.9	13.9	16.2	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)