

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: P298054

Luminaire Tested: **D3X-WD-20L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298054  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WD-20L93050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1578.0 lumens  
Efficiency: N/A  
Efficacy: 100.5 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

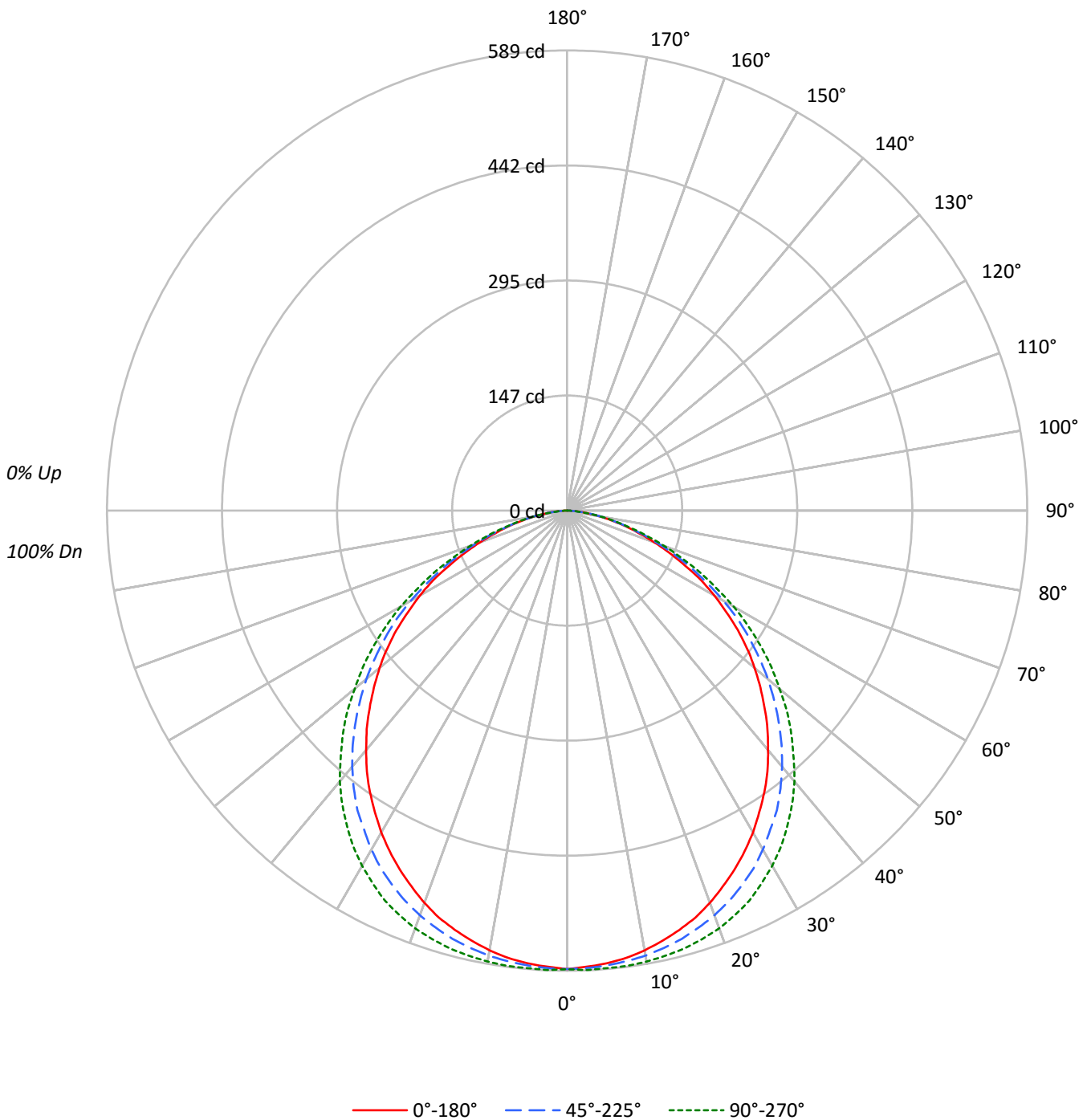
Input Watts (W): 15.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

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

	0°	45°	90°
0°	1579	1579	1579
5°	1572	1579	1588
10°	1562	1580	1602
15°	1548	1581	1616
20°	1530	1578	1630
25°	1506	1571	1637
30°	1478	1557	1631
35°	1445	1537	1616
40°	1405	1504	1590
45°	1361	1458	1545
50°	1312	1405	1486
55°	1251	1335	1419
60°	1170	1243	1326
65°	1060	1125	1195
70°	935	983	1036
75°	804	821	857
80°	645	659	671
85°	472	420	420



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.6	3.5
10°-20°	160.2	10.2
20°-30°	243.7	15.4
30°-40°	291.6	18.5
40°-50°	294.8	18.7
50°-60°	253.7	16.1
60°-70°	175.1	11.1
70°-80°	84.9	5.4
80°-90°	18.4	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°	459.5	29.1
0°-40°	751.1	47.6
0°-60°	1299.5	82.4
0°-90°	1578.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1578.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	587	587	587	587	587	
5°	582	583	584	587	588	55
15°	556	559	567	576	580	157
25°	507	513	529	545	551	233
35°	440	448	468	485	492	275
45°	358	364	383	399	406	276
55°	267	271	284	297	302	238
65°	166	169	177	184	188	166
75°	77	76	79	82	82	82
85°	15	15	14	14	14	19
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	586.9	586.9	586.9	586.9	586.9
2.5°	584.4	584.4	586.1	587.8	588.6
5°	581.8	582.7	584.4	586.9	587.8
7.5°	577.6	578.4	581.8	586.1	587.8
10°	571.6	573.3	578.4	583.5	586.1
12.5°	564.0	567.4	573.3	580.1	583.5
15°	555.5	558.9	567.4	575.9	580.1
17.5°	546.2	549.6	559.7	570.8	575.0
20°	534.3	539.4	551.2	564.0	569.1
22.5°	520.7	527.5	541.1	554.6	560.6
25°	507.1	513.0	529.2	545.3	551.2
27.5°	491.8	498.6	516.4	532.6	538.5
30°	475.7	482.4	501.1	519.0	524.9
32.5°	457.8	466.3	484.1	502.8	509.6
35°	440.0	447.6	468.0	485.0	491.8
37.5°	421.3	428.1	448.5	466.3	473.1
40°	400.1	407.7	428.1	445.9	452.7
42.5°	379.7	387.3	406.0	423.0	428.9
45°	357.6	364.4	383.1	399.2	406.0
47.5°	335.5	343.2	359.3	375.4	382.2
50°	313.4	319.4	335.5	350.8	355.0
52.5°	290.5	295.6	310.0	323.6	329.6
55°	266.7	271.0	284.5	297.3	302.4
57.5°	241.2	246.3	259.1	268.4	274.4
60°	217.4	220.0	231.0	240.4	246.3
62.5°	193.7	194.5	203.0	212.3	215.7
65°	166.5	169.0	176.7	184.3	187.7
67.5°	141.8	144.4	150.3	156.3	158.8
70°	118.9	118.9	124.9	129.1	131.7
72.5°	96.0	96.8	101.1	103.6	106.2
75°	77.3	75.6	79.0	81.5	82.4
77.5°	57.8	56.9	59.5	60.3	62.0
80°	41.6	41.6	42.5	43.3	43.3
82.5°	27.2	27.2	28.0	26.3	25.5
85°	15.3	15.3	13.6	13.6	13.6
87.5°	5.1	5.1	5.1	5.9	5.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)