

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: P298087

Luminaire Tested: **D3X-WD-20L92765-LD5-UNV-22-T1-W2A-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298087  
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-20L92765-LD5-UNV-22-T1-W2A-4500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1682.0 lumens  
Efficiency: N/A  
Efficacy: 107.1 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

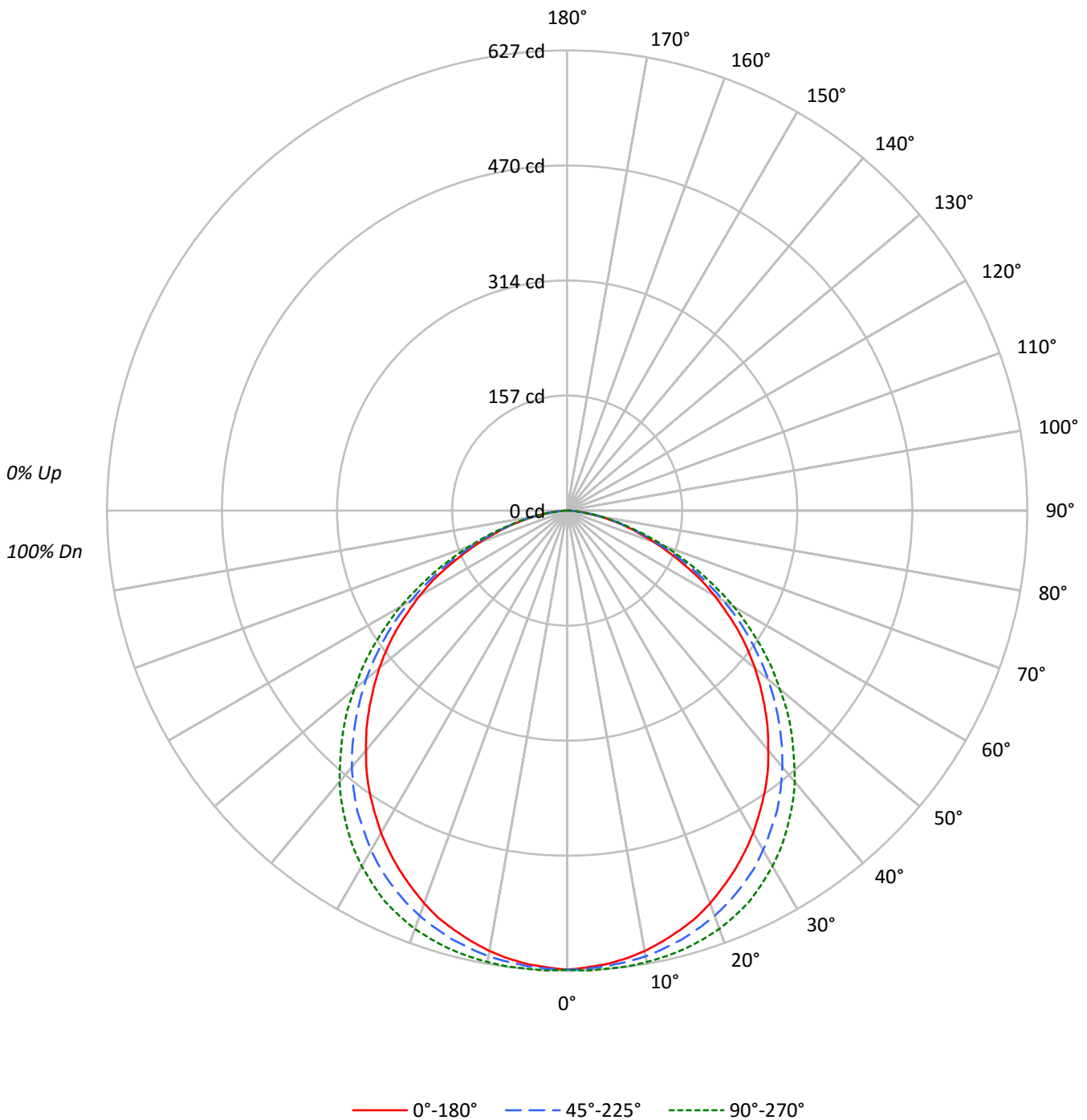
Input Watts (W): 15.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85					85			
2	100	92	85	80	97	90	84	79	87	81	77	83	79	75	80	77	74	72					72			
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61					61			
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52					52			
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45					45			
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40					40			
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35					35			
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31					31			
9	57	44	36	31	56	44	36	31	42	35	30	41	35	30	40	34	30	28					28			
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26					26			

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

	0°	45°	90°
0°	1683	1683	1683
5°	1675	1683	1692
10°	1665	1685	1707
15°	1650	1685	1723
20°	1631	1683	1737
25°	1605	1675	1745
30°	1575	1660	1739
35°	1541	1639	1722
40°	1498	1603	1695
45°	1451	1554	1647
50°	1399	1497	1584
55°	1334	1423	1512
60°	1248	1326	1413
65°	1130	1199	1274
70°	998	1047	1104
75°	857	875	913
80°	688	702	716
85°	503	448	448



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.3	3.5
10°-20°	170.8	10.2
20°-30°	259.8	15.4
30°-40°	310.8	18.5
40°-50°	314.2	18.7
50°-60°	270.4	16.1
60°-70°	186.7	11.1
70°-80°	90.5	5.4
80°-90°	19.6	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°	489.8	29.1
0°-40°	800.6	47.6
0°-60°	1385.2	82.4
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	620	621	623	626	626	59
15°	592	596	605	614	618	167
25°	540	547	564	581	588	249
35°	469	477	499	517	524	293
45°	381	388	408	426	433	294
55°	284	289	303	317	322	253
65°	178	180	188	196	200	177
75°	82	81	84	87	88	87
85°	16	16	14	14	14	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	625.6	625.6	625.6	625.6	625.6
2.5°	622.9	622.9	624.7	626.5	627.4
5°	620.2	621.1	622.9	625.6	626.5
7.5°	615.6	616.6	620.2	624.7	626.5
10°	609.3	611.1	616.6	622.0	624.7
12.5°	601.2	604.8	611.1	618.4	622.0
15°	592.1	595.7	604.8	613.8	618.4
17.5°	582.1	585.8	596.6	608.4	612.9
20°	569.5	574.9	587.6	601.2	606.6
22.5°	555.0	562.2	576.7	591.2	597.5
25°	540.5	546.8	564.0	581.2	587.6
27.5°	524.2	531.4	550.5	567.7	574.0
30°	507.0	514.2	534.2	553.2	559.5
32.5°	488.0	497.0	516.1	536.0	543.2
35°	469.0	477.1	498.9	517.0	524.2
37.5°	449.1	456.3	478.0	497.0	504.3
40°	426.4	434.6	456.3	475.3	482.6
42.5°	404.7	412.8	432.8	450.9	457.2
45°	381.2	388.4	408.3	425.5	432.8
47.5°	357.6	365.8	383.0	400.2	407.4
50°	334.1	340.4	357.6	373.9	378.4
52.5°	309.6	315.1	330.5	344.9	351.3
55°	284.3	288.8	303.3	316.9	322.3
57.5°	257.1	262.6	276.1	286.1	292.4
60°	231.8	234.5	246.3	256.2	262.6
62.5°	206.4	207.3	216.4	226.3	230.0
65°	177.5	180.2	188.3	196.5	200.1
67.5°	151.2	153.9	160.2	166.6	169.3
70°	126.8	126.8	133.1	137.6	140.3
72.5°	102.3	103.2	107.7	110.5	113.2
75°	82.4	80.6	84.2	86.9	87.8
77.5°	61.6	60.7	63.4	64.3	66.1
80°	44.4	44.4	45.3	46.2	46.2
82.5°	29.0	29.0	29.9	28.1	27.2
85°	16.3	16.3	14.5	14.5	14.5
87.5°	5.4	5.4	5.4	6.3	5.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)