

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: P298257

Luminaire Tested: **D3X-WG-20L92765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298257  
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-20L92765-LD5-UNV-22-T1-W2A-5500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1767.0 lumens  
Efficiency: N/A  
Efficacy: 111.1 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

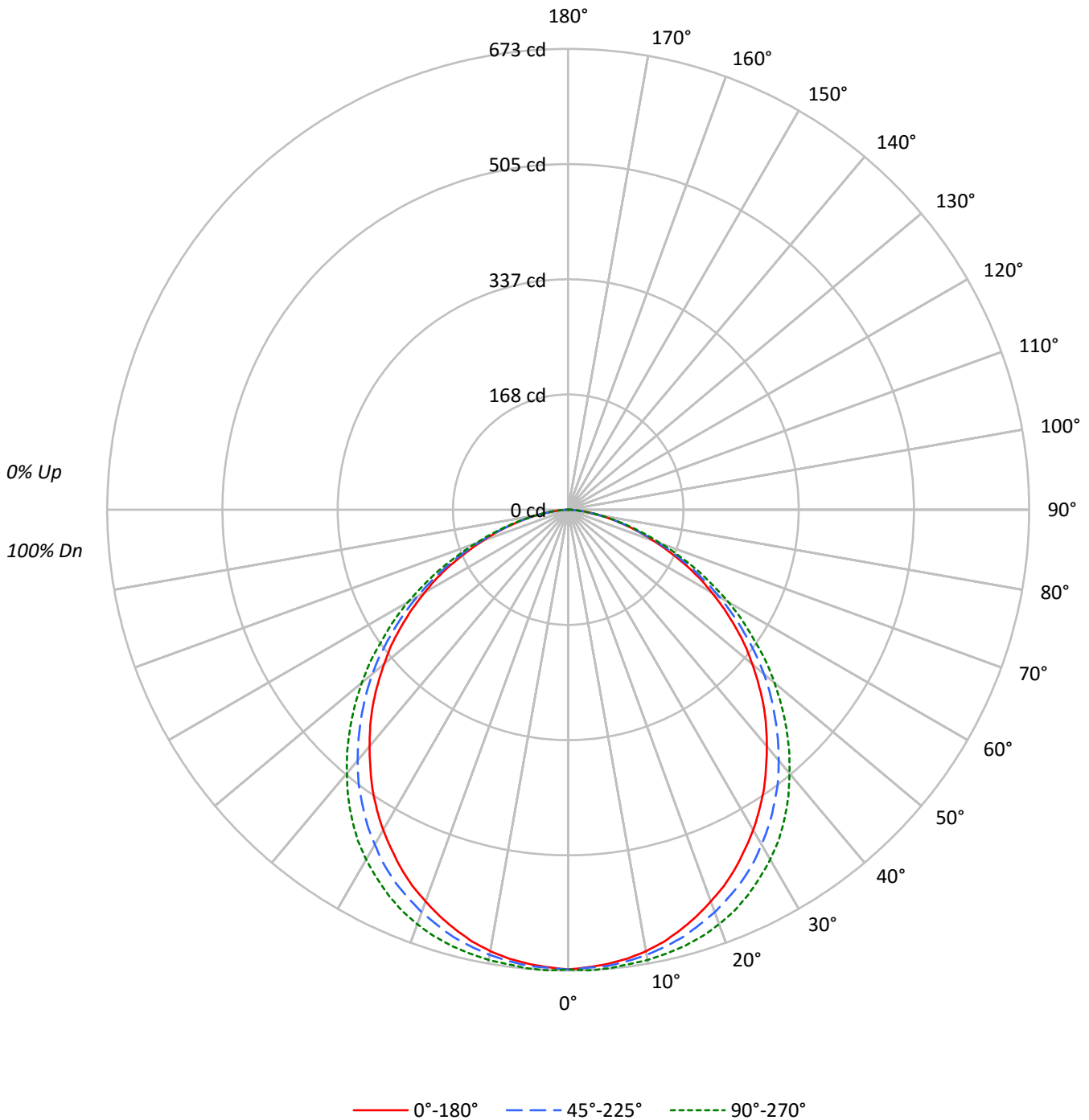
Input Watts (W): 15.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1807	1807	1807
5°	1799	1806	1816
10°	1789	1804	1824
15°	1769	1800	1837
20°	1743	1791	1845
25°	1715	1779	1844
30°	1679	1754	1833
35°	1636	1722	1808
40°	1585	1680	1766
45°	1535	1624	1713
50°	1469	1563	1645
55°	1395	1474	1553
60°	1302	1373	1454
65°	1188	1242	1314
70°	1040	1085	1129
75°	887	907	946
80°	713	727	741
85°	522	491	463



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.6	3.6
10°-20°	182.4	10.3
20°-30°	275.8	15.6
30°-40°	327.6	18.5
40°-50°	328.9	18.6
50°-60°	280.9	15.9
60°-70°	193.5	11.0
70°-80°	93.8	5.3
80°-90°	20.5	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°	521.8	29.5
0°-40°	849.3	48.1
0°-60°	1459.1	82.6
0°-90°	1767.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1767.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	672	672	672	672	672	
5°	666	666	669	671	672	63
15°	635	638	646	655	659	179
25°	578	582	599	615	621	266
35°	498	506	524	544	550	311
45°	403	409	427	444	450	310
55°	297	302	314	327	331	266
65°	187	187	195	204	206	185
75°	85	84	87	89	91	92
85°	17	17	16	15	15	21
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	671.5	671.5	671.5	671.5	671.5
2.5°	668.7	668.7	669.6	672.4	673.4
5°	665.9	665.9	668.7	670.6	672.4
7.5°	661.2	662.1	664.9	668.7	669.6
10°	654.6	655.6	660.2	664.9	667.7
12.5°	646.2	648.1	653.7	661.2	664.0
15°	634.9	637.7	646.2	654.6	659.3
17.5°	622.7	626.5	635.9	648.1	652.7
20°	608.7	613.4	625.5	638.7	644.3
22.5°	594.6	598.3	612.4	627.4	634.0
25°	577.7	582.4	599.3	615.2	620.9
27.5°	559.0	565.5	583.3	600.2	605.9
30°	540.2	545.8	564.6	583.3	589.9
32.5°	519.6	525.2	545.8	564.6	572.1
35°	498.0	505.5	524.3	544.0	550.5
37.5°	474.6	483.0	502.7	519.6	528.0
40°	451.1	458.6	478.3	496.1	502.7
42.5°	427.7	434.2	453.0	471.7	477.4
45°	403.3	408.9	426.7	444.5	450.2
47.5°	377.0	383.6	400.5	415.5	422.0
50°	350.8	357.3	373.3	387.3	393.0
52.5°	325.4	329.2	344.2	357.3	363.9
55°	297.3	302.0	314.2	327.3	331.1
57.5°	270.1	272.9	285.1	296.4	302.0
60°	242.0	243.8	255.1	263.5	270.1
62.5°	215.7	215.7	224.1	233.5	237.3
65°	186.6	186.6	195.1	203.5	206.3
67.5°	158.5	160.4	166.0	172.6	174.4
70°	132.2	132.2	137.9	142.6	143.5
72.5°	108.8	107.9	110.7	114.4	116.3
75°	85.3	83.5	87.2	89.1	91.0
77.5°	64.7	63.8	65.6	67.5	67.5
80°	46.0	45.0	46.9	46.9	47.8
82.5°	30.0	30.9	30.9	30.0	29.1
85°	16.9	16.9	15.9	15.0	15.0
87.5°	5.6	5.6	5.6	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)