

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: P298005

Luminaire Tested: **D3X-WD-20L82765-LD5-UNV-22-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298005  
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-20L82765-LD5-UNV-22-T1-W2A-5500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1930.0 lumens  
Efficiency: N/A  
Efficacy: 121.4 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

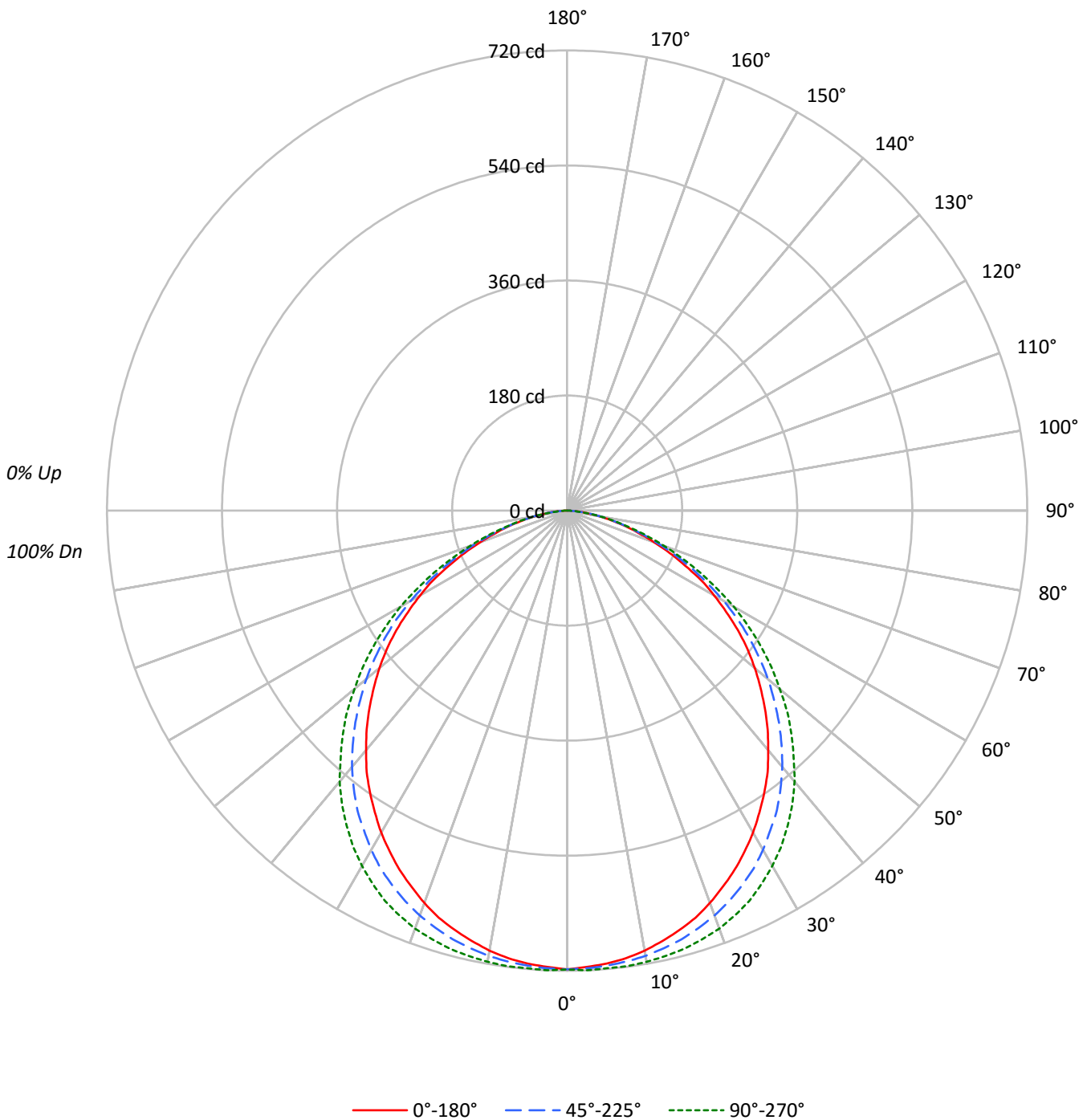
Input Watts (W): 15.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1932	1932	1932
5°	1922	1931	1942
10°	1910	1933	1959
15°	1893	1933	1977
20°	1871	1931	1993
25°	1841	1922	2002
30°	1808	1904	1995
35°	1768	1880	1976
40°	1719	1839	1945
45°	1665	1783	1890
50°	1605	1718	1818
55°	1530	1633	1735
60°	1431	1521	1622
65°	1296	1376	1462
70°	1144	1201	1267
75°	983	1004	1048
80°	789	804	821
85°	577	513	513



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.0	3.5
10°-20°	196.0	10.2
20°-30°	298.1	15.4
30°-40°	356.6	18.5
40°-50°	360.5	18.7
50°-60°	310.2	16.1
60°-70°	214.2	11.1
70°-80°	103.9	5.4
80°-90°	22.5	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°	562.0	29.1
0°-40°	918.6	47.6
0°-60°	1589.4	82.4
0°-90°	1930.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1930.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	718	718	718	718	718	
5°	712	713	715	718	719	68
15°	679	684	694	704	710	192
25°	620	628	647	667	674	286
35°	538	548	572	593	602	336
45°	437	446	468	488	497	337
55°	326	331	348	364	370	291
65°	204	207	216	225	230	203
75°	94	92	97	100	101	100
85°	19	19	17	17	17	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	717.8	717.8	717.8	717.8	717.8
2.5°	714.7	714.7	716.8	718.9	719.9
5°	711.6	712.7	714.7	717.8	718.9
7.5°	706.4	707.5	711.6	716.8	718.9
10°	699.1	701.2	707.5	713.7	716.8
12.5°	689.8	694.0	701.2	709.5	713.7
15°	679.4	683.6	694.0	704.3	709.5
17.5°	668.0	672.1	684.6	698.1	703.3
20°	653.4	659.7	674.2	689.8	696.0
22.5°	636.8	645.1	661.7	678.4	685.6
25°	620.2	627.5	647.2	666.9	674.2
27.5°	601.5	609.8	631.6	651.4	658.6
30°	581.8	590.1	612.9	634.7	642.0
32.5°	559.9	570.3	592.1	615.0	623.3
35°	538.1	547.5	572.4	593.2	601.5
37.5°	515.3	523.6	548.5	570.3	578.6
40°	489.3	498.6	523.6	545.4	553.7
42.5°	464.4	473.7	496.6	517.3	524.6
45°	437.4	445.7	468.5	488.3	496.6
47.5°	410.3	419.7	439.4	459.2	467.5
50°	383.3	390.6	410.3	429.0	434.2
52.5°	355.3	361.5	379.2	395.8	403.1
55°	326.2	331.4	348.0	363.6	369.8
57.5°	295.0	301.3	316.8	328.3	335.5
60°	265.9	269.1	282.6	294.0	301.3
62.5°	236.9	237.9	248.3	259.7	263.9
65°	203.6	206.7	216.1	225.4	229.6
67.5°	173.5	176.6	183.9	191.1	194.3
70°	145.4	145.4	152.7	157.9	161.0
72.5°	117.4	118.4	123.6	126.7	129.9
75°	94.5	92.5	96.6	99.7	100.8
77.5°	70.6	69.6	72.7	73.8	75.8
80°	50.9	50.9	51.9	53.0	53.0
82.5°	33.2	33.2	34.3	32.2	31.2
85°	18.7	18.7	16.6	16.6	16.6
87.5°	6.2	6.2	6.2	7.3	6.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)