

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: P298137

Luminaire Tested: **D3X-WG-20L83050-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298137  
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-20L83050-LD5-UNV-22-T1-W2A-3000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1779.0 lumens  
Efficiency: N/A  
Efficacy: 115.5 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

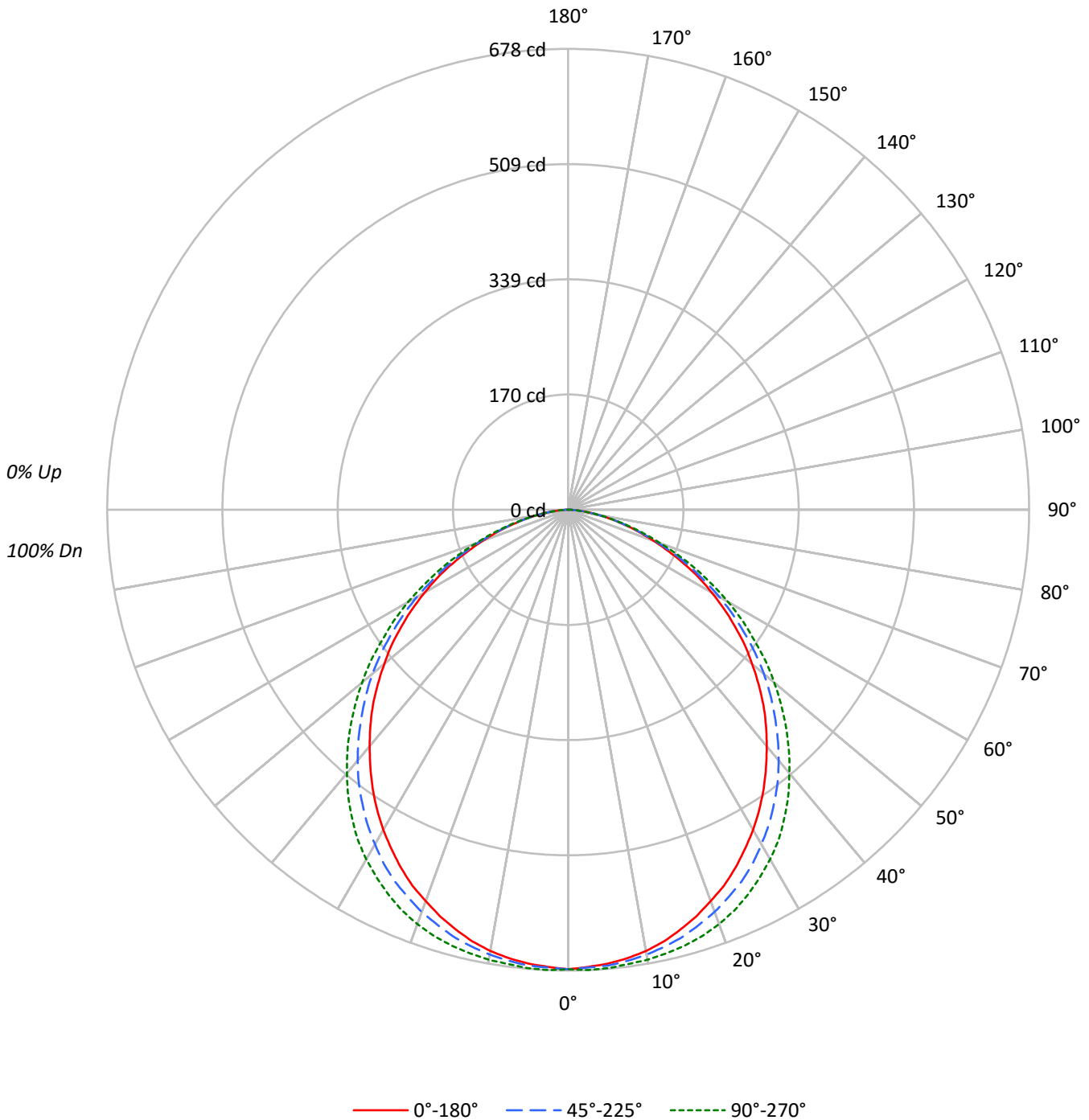
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1819	1819	1819
5°	1811	1818	1829
10°	1801	1816	1837
15°	1781	1813	1849
20°	1755	1804	1858
25°	1727	1792	1856
30°	1690	1766	1845
35°	1647	1734	1821
40°	1596	1692	1778
45°	1545	1635	1725
50°	1478	1573	1656
55°	1404	1484	1564
60°	1311	1382	1463
65°	1196	1251	1323
70°	1047	1092	1137
75°	893	913	952
80°	717	731	747
85°	525	497	466



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.0	3.6
10°-20°	183.7	10.3
20°-30°	277.7	15.6
30°-40°	329.8	18.5
40°-50°	331.1	18.6
50°-60°	282.8	15.9
60°-70°	194.8	11.0
70°-80°	94.5	5.3
80°-90°	20.7	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°	525.3	29.5
0°-40°	855.1	48.1
0°-60°	1469.0	82.6
0°-90°	1779.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1779.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	676	676	676	676	676	
5°	670	670	673	675	677	64
15°	639	642	651	659	664	180
25°	582	586	603	619	625	268
35°	501	509	528	548	554	313
45°	406	412	430	448	453	313
55°	299	304	316	330	333	268
65°	188	188	196	205	208	186
75°	86	84	88	90	92	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°	676.1	676.1	676.1	676.1	676.1
2.5°	673.2	673.2	674.2	677.0	677.9
5°	670.4	670.4	673.2	675.1	677.0
7.5°	665.7	666.6	669.5	673.2	674.2
10°	659.1	660.0	664.7	669.5	672.3
12.5°	650.6	652.5	658.1	665.7	668.5
15°	639.2	642.1	650.6	659.1	663.8
17.5°	627.0	630.7	640.2	652.5	657.2
20°	612.8	617.5	629.8	643.0	648.7
22.5°	598.6	602.4	616.6	631.7	638.3
25°	581.6	586.4	603.4	619.4	625.1
27.5°	562.8	569.4	587.3	604.3	610.0
30°	543.9	549.5	568.4	587.3	593.9
32.5°	523.1	528.8	549.5	568.4	576.0
35°	501.4	508.9	527.8	547.6	554.3
37.5°	477.8	486.3	506.1	523.1	531.6
40°	454.2	461.7	481.6	499.5	506.1
42.5°	430.6	437.2	456.1	474.9	480.6
45°	406.0	411.7	429.6	447.6	453.2
47.5°	379.6	386.2	403.2	418.3	424.9
50°	353.1	359.7	375.8	390.0	395.6
52.5°	327.6	331.4	346.5	359.7	366.4
55°	299.3	304.0	316.3	329.5	333.3
57.5°	271.9	274.8	287.0	298.4	304.0
60°	243.6	245.5	256.8	265.3	271.9
62.5°	217.2	217.2	225.7	235.1	238.9
65°	187.9	187.9	196.4	204.9	207.7
67.5°	159.6	161.5	167.1	173.7	175.6
70°	133.1	133.1	138.8	143.5	144.5
72.5°	109.5	108.6	111.4	115.2	117.1
75°	85.9	84.0	87.8	89.7	91.6
77.5°	65.2	64.2	66.1	68.0	68.0
80°	46.3	45.3	47.2	47.2	48.2
82.5°	30.2	31.2	31.2	30.2	29.3
85°	17.0	17.0	16.1	15.1	15.1
87.5°	5.7	5.7	5.7	6.6	6.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)