

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: P298223

Luminaire Tested: **D3X-WG-20L93050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298223  
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-20L93050-LD5-UNV-22-T1-W2A-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (252) 90 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1728.0 lumens  
Efficiency: N/A  
Efficacy: 109.4 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

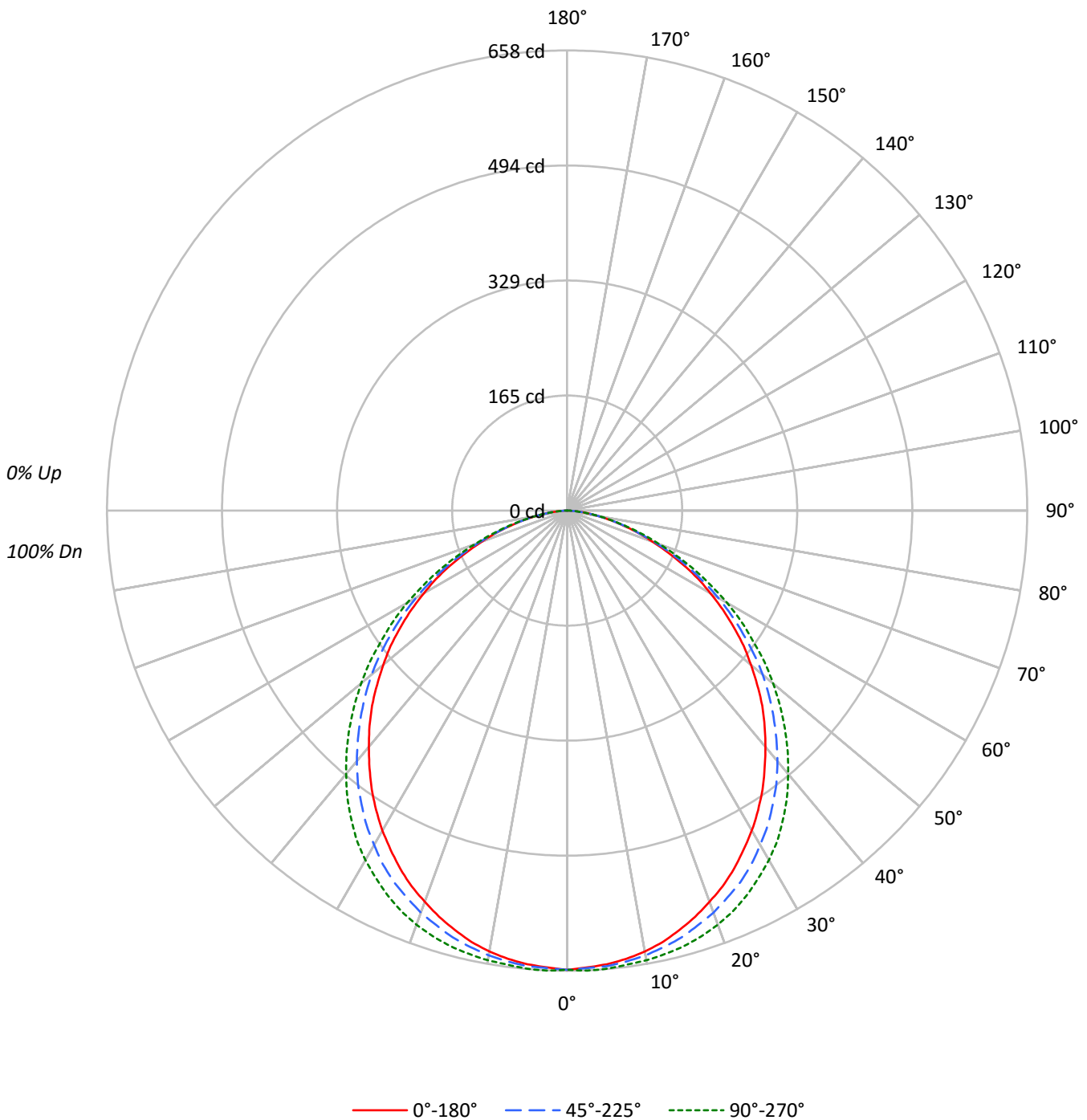
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1767	1767	1767
5°	1759	1766	1776
10°	1749	1764	1784
15°	1730	1760	1796
20°	1704	1752	1804
25°	1678	1740	1803
30°	1642	1716	1793
35°	1600	1684	1769
40°	1550	1643	1727
45°	1501	1588	1675
50°	1436	1528	1609
55°	1364	1441	1519
60°	1273	1343	1421
65°	1162	1215	1285
70°	1017	1061	1104
75°	868	887	925
80°	696	711	725
85°	509	482	454



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	62.2	3.6
10°-20°	178.4	10.3
20°-30°	269.7	15.6
30°-40°	320.3	18.5
40°-50°	321.6	18.6
50°-60°	274.7	15.9
60°-70°	189.3	11.0
70°-80°	91.8	5.3
80°-90°	20.1	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°	510.3	29.5
0°-40°	830.6	48.1
0°-60°	1426.9	82.6
0°-90°	1728.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1728.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	651	651	654	656	658	62
15°	621	624	632	640	645	175
25°	565	570	586	602	607	260
35°	487	494	513	532	538	304
45°	394	400	417	435	440	304
55°	291	295	307	320	324	260
65°	182	182	191	199	202	181
75°	84	82	85	87	89	90
85°	16	16	16	15	15	20
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	656.7	656.7	656.7	656.7	656.7
2.5°	653.9	653.9	654.8	657.6	658.5
5°	651.2	651.2	653.9	655.8	657.6
7.5°	646.6	647.5	650.3	653.9	654.8
10°	640.2	641.1	645.7	650.3	653.0
12.5°	631.9	633.8	639.3	646.6	649.3
15°	620.9	623.7	631.9	640.2	644.8
17.5°	609.0	612.7	621.8	633.8	638.3
20°	595.2	599.8	611.7	624.6	630.1
22.5°	581.5	585.1	598.9	613.6	620.0
25°	565.0	569.6	586.1	601.7	607.2
27.5°	546.6	553.0	570.5	587.0	592.5
30°	528.3	533.8	552.1	570.5	576.9
32.5°	508.1	513.6	533.8	552.1	559.5
35°	487.0	494.3	512.7	531.9	538.4
37.5°	464.1	472.3	491.6	508.1	516.4
40°	441.1	448.5	467.7	485.2	491.6
42.5°	418.2	424.6	443.0	461.3	466.8
45°	394.4	399.9	417.3	434.7	440.2
47.5°	368.7	375.1	391.6	406.3	412.7
50°	343.0	349.4	365.0	378.8	384.3
52.5°	318.3	321.9	336.6	349.4	355.9
55°	290.7	295.3	307.2	320.1	323.8
57.5°	264.1	266.9	278.8	289.8	295.3
60°	236.6	238.5	249.5	257.7	264.1
62.5°	210.9	210.9	219.2	228.4	232.0
65°	182.5	182.5	190.8	199.0	201.8
67.5°	155.0	156.8	162.3	168.8	170.6
70°	129.3	129.3	134.8	139.4	140.3
72.5°	106.4	105.5	108.2	111.9	113.7
75°	83.5	81.6	85.3	87.1	89.0
77.5°	63.3	62.4	64.2	66.0	66.0
80°	44.9	44.0	45.9	45.9	46.8
82.5°	29.3	30.3	30.3	29.3	28.4
85°	16.5	16.5	15.6	14.7	14.7
87.5°	5.5	5.5	5.5	6.4	6.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)