

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: P298306

Luminaire Tested: **D3X-WO-20L83050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298306  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WO-20L83050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2006.0 lumens  
Efficiency: N/A  
Efficacy: 130.3 lumens/watt  
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct

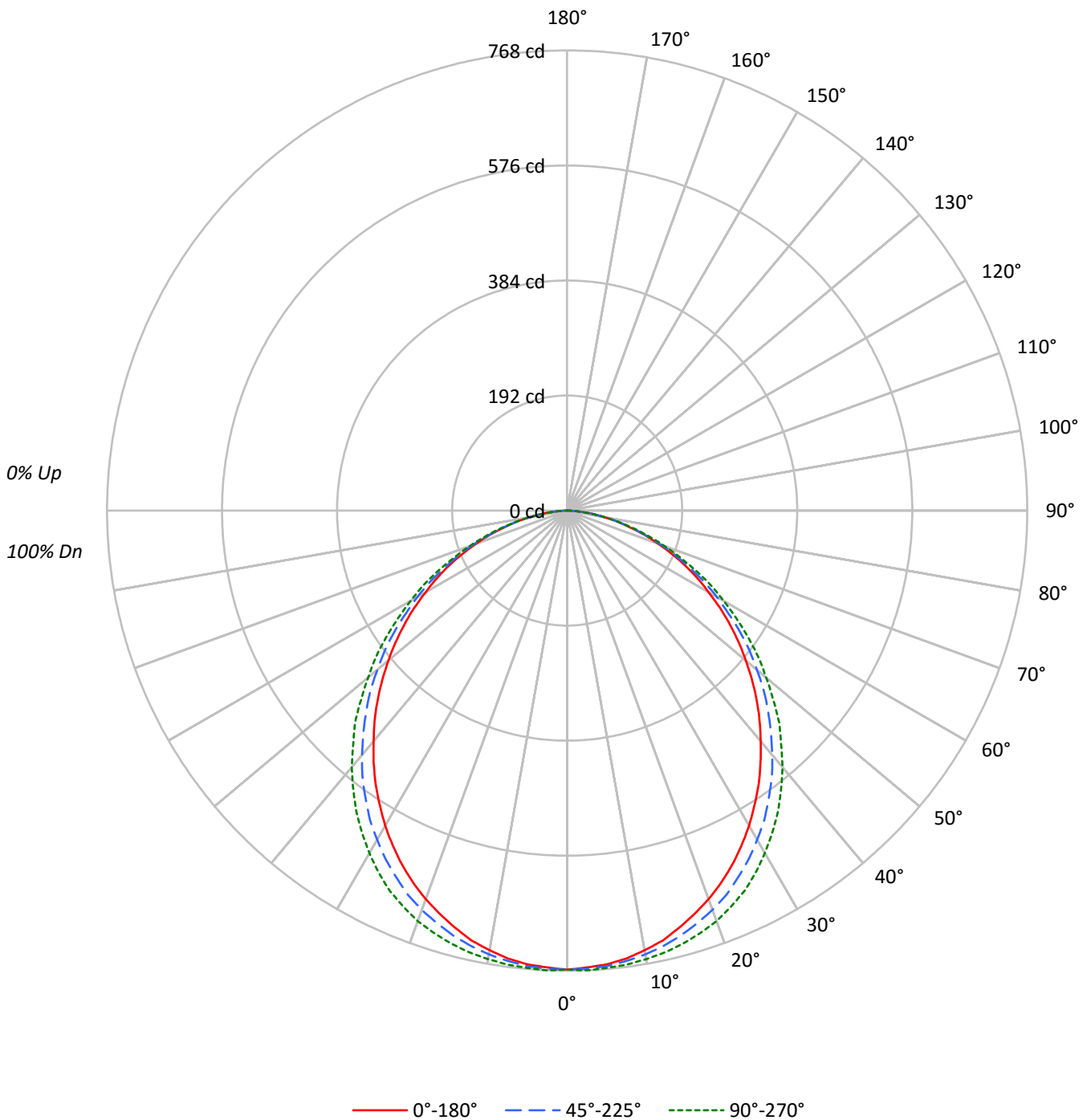
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	56	68	61	56	66	60	55	64	58	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	43	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27	26

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

	0°	45°	90°
0°	2062	2062	2062
5°	2053	2061	2069
10°	2036	2055	2077
15°	2009	2045	2084
20°	1977	2031	2088
25°	1936	2005	2079
30°	1887	1971	2051
35°	1831	1926	2015
40°	1765	1870	1965
45°	1703	1805	1904
50°	1631	1731	1815
55°	1556	1650	1729
60°	1468	1554	1623
65°	1386	1437	1507
70°	1273	1312	1360
75°	1132	1163	1195
80°	975	959	959
85°	741	679	618



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	3.6
10°-20°	207.1	10.3
20°-30°	311.0	15.5
30°-40°	366.0	18.2
40°-50°	365.1	18.2
50°-60°	313.3	15.6
60°-70°	224.4	11.2
70°-80°	118.8	5.9
80°-90°	27.8	1.4
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°	590.6	29.4
0°-40°	956.6	47.7
0°-60°	1635.0	81.5
0°-90°	2006.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2006.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	766	766	766	766	766	
5°	760	760	763	765	766	72
15°	721	724	734	744	748	203
25°	652	658	675	692	700	300
35°	557	564	586	606	613	348
45°	448	454	474	491	500	345
55°	332	337	352	364	369	296
65°	218	219	226	235	237	215
75°	109	109	112	114	115	117
85°	24	23	22	20	20	29
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	766.1	766.1	766.1	766.1	766.1
2.5°	763.1	763.1	765.1	767.1	768.1
5°	760.1	760.1	763.1	765.1	766.1
7.5°	754.1	754.1	758.1	762.1	764.1
10°	745.1	747.1	752.1	758.1	760.1
12.5°	735.1	737.1	744.1	752.1	755.1
15°	721.1	724.1	734.1	744.1	748.1
17.5°	706.1	710.1	722.1	734.1	739.1
20°	690.2	694.2	709.1	723.1	729.1
22.5°	672.2	677.2	694.2	709.1	715.1
25°	652.2	658.2	675.2	692.2	700.2
27.5°	630.2	637.2	656.2	674.2	681.2
30°	607.3	615.3	634.2	653.2	660.2
32.5°	582.3	589.3	612.3	630.2	637.2
35°	557.3	564.3	586.3	606.3	613.3
37.5°	530.4	539.3	561.3	579.3	586.3
40°	502.4	511.4	532.4	553.3	559.3
42.5°	475.4	483.4	503.4	522.4	528.4
45°	447.5	454.5	474.4	491.4	500.4
47.5°	418.5	425.5	445.5	461.4	466.4
50°	389.5	396.5	413.5	427.5	433.5
52.5°	360.6	367.6	383.5	396.5	402.5
55°	331.6	336.6	351.6	363.6	368.6
57.5°	302.6	306.6	318.6	331.6	334.6
60°	272.7	277.7	288.7	297.6	301.6
62.5°	245.7	247.7	257.7	265.7	270.7
65°	217.7	218.7	225.7	234.7	236.7
67.5°	188.8	189.8	196.8	201.8	203.8
70°	161.8	161.8	166.8	170.8	172.8
72.5°	135.8	134.8	137.8	141.8	143.8
75°	108.9	108.9	111.9	113.9	114.9
77.5°	85.9	83.9	85.9	87.9	87.9
80°	62.9	61.9	61.9	62.9	61.9
82.5°	42.9	41.9	42.9	41.0	40.0
85°	24.0	23.0	22.0	20.0	20.0
87.5°	8.0	7.0	7.0	8.0	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)