

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: P298307

Luminaire Tested: **D3X-WO-20L83050-LD5-UNV-22-T1-W2A-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298307  
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-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH OPAL LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2106.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 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

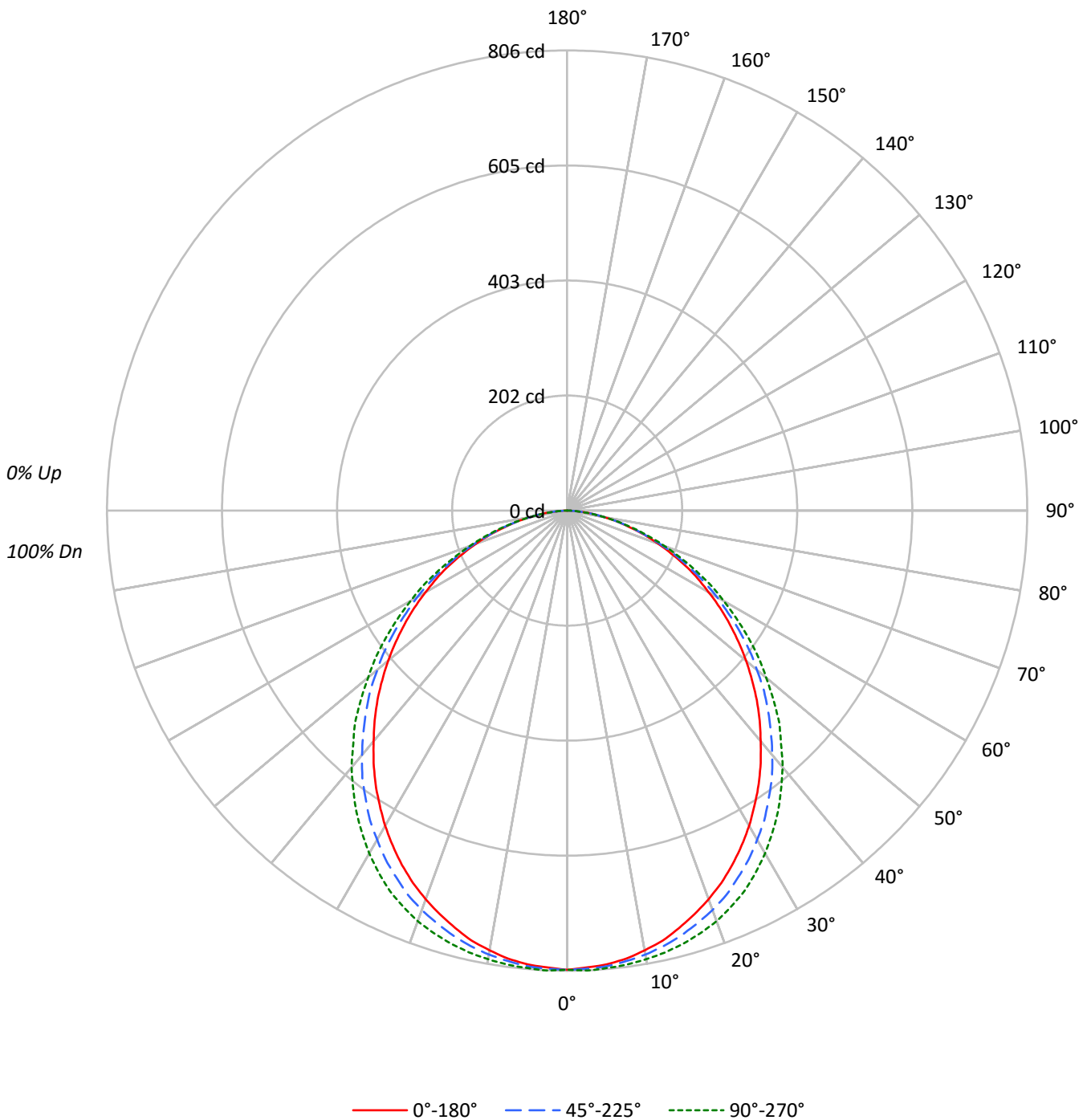
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P298307

CATALOG NUMBER: D3X-WO-20L83050-LD5-UNV-22-T1-W2A-4000K

### Luminous Intensity Polar Plot





TEST NUMBER: P298307

CATALOG NUMBER: D3X-WO-20L83050-LD5-UNV-22-T1-W2A-4000K

**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°	2164	2164	2164
5°	2156	2164	2173
10°	2137	2158	2181
15°	2109	2147	2188
20°	2075	2132	2192
25°	2033	2105	2183
30°	1981	2069	2154
35°	1922	2022	2115
40°	1853	1963	2063
45°	1788	1896	1999
50°	1712	1817	1905
55°	1633	1732	1815
60°	1541	1631	1704
65°	1456	1509	1582
70°	1337	1378	1427
75°	1188	1221	1254
80°	1024	1007	1007
85°	778	713	648



TEST NUMBER: P298307

CATALOG NUMBER: D3X-WO-20L83050-LD5-UNV-22-T1-W2A-4000K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	3.6
10°-20°	217.5	10.3
20°-30°	326.5	15.5
30°-40°	384.3	18.2
40°-50°	383.3	18.2
50°-60°	328.9	15.6
60°-70°	235.6	11.2
70°-80°	124.8	5.9
80°-90°	29.2	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°	620.1	29.4
0°-40°	1004.3	47.7
0°-60°	1716.5	81.5
0°-90°	2106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2106.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	804	804	804	804	804	
5°	798	798	801	803	804	76
15°	757	760	771	781	785	213
25°	685	691	709	727	735	315
35°	585	592	616	636	644	365
45°	470	477	498	516	525	362
55°	348	353	369	382	387	311
65°	229	230	237	246	248	226
75°	114	114	117	120	121	123
85°	25	24	23	21	21	30
90°	0	0	0	0	0	



TEST NUMBER: P298307

CATALOG NUMBER: D3X-WO-20L83050-LD5-UNV-22-T1-W2A-4000K

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	804.3	804.3	804.3	804.3	804.3
2.5°	801.1	801.1	803.2	805.3	806.4
5°	798.0	798.0	801.1	803.2	804.3
7.5°	791.7	791.7	795.9	800.1	802.2
10°	782.2	784.3	789.6	795.9	798.0
12.5°	771.8	773.9	781.2	789.6	792.7
15°	757.1	760.2	770.7	781.2	785.4
17.5°	741.3	745.5	758.1	770.7	776.0
20°	724.6	728.8	744.5	759.2	765.5
22.5°	705.7	710.9	728.8	744.5	750.8
25°	684.7	691.0	708.8	726.7	735.1
27.5°	661.7	669.0	688.9	707.8	715.1
30°	637.5	645.9	665.8	685.8	693.1
32.5°	611.3	618.7	642.8	661.7	669.0
35°	585.1	592.4	615.5	636.5	643.8
37.5°	556.8	566.2	589.3	608.2	615.5
40°	527.4	536.9	558.9	580.9	587.2
42.5°	499.1	507.5	528.5	548.4	554.7
45°	469.8	477.1	498.1	515.9	525.3
47.5°	439.4	446.7	467.7	484.4	489.7
50°	408.9	416.3	434.1	448.8	455.1
52.5°	378.5	385.9	402.7	416.3	422.6
55°	348.1	353.4	369.1	381.7	386.9
57.5°	317.7	321.9	334.5	348.1	351.3
60°	286.3	291.5	303.0	312.5	316.7
62.5°	258.0	260.0	270.5	278.9	284.2
65°	228.6	229.6	237.0	246.4	248.5
67.5°	198.2	199.2	206.6	211.8	213.9
70°	169.9	169.9	175.1	179.3	181.4
72.5°	142.6	141.6	144.7	148.9	151.0
75°	114.3	114.3	117.4	119.5	120.6
77.5°	90.2	88.1	90.2	92.3	92.3
80°	66.1	65.0	65.0	66.1	65.0
82.5°	45.1	44.0	45.1	43.0	41.9
85°	25.2	24.1	23.1	21.0	21.0
87.5°	8.4	7.3	7.3	8.4	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)