

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: P297970

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297970  
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-20L83050-LD5-UNV-22-T1-W2A-3500K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1856.0 lumens  
Efficiency: N/A  
Efficacy: 120.5 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

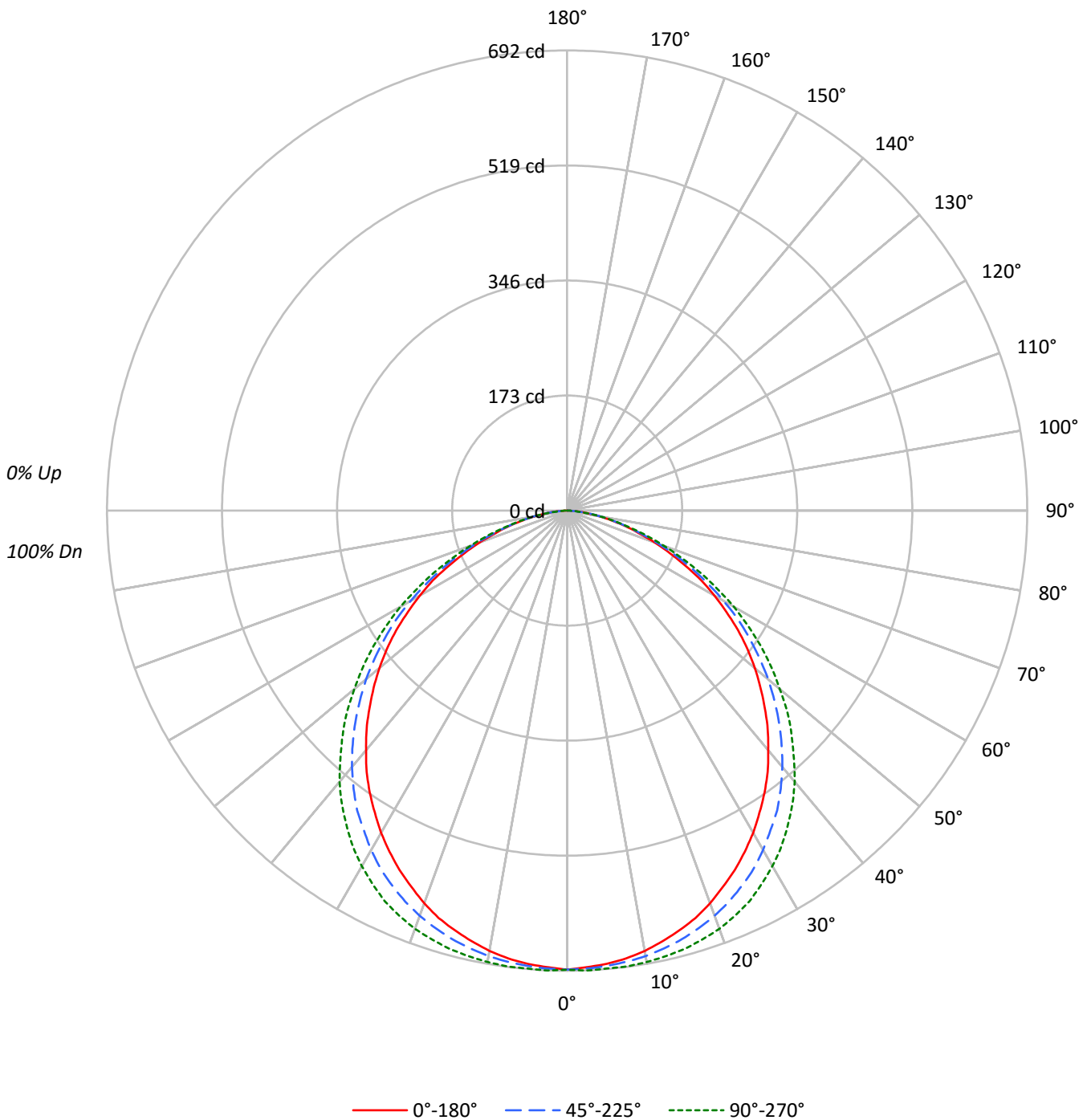
Input Watts (W): 15.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1858	1858	1858
5°	1848	1857	1867
10°	1837	1859	1884
15°	1820	1859	1901
20°	1800	1857	1917
25°	1771	1848	1925
30°	1739	1831	1918
35°	1700	1808	1900
40°	1653	1769	1871
45°	1601	1715	1817
50°	1543	1652	1748
55°	1472	1570	1669
60°	1376	1462	1559
65°	1247	1323	1406
70°	1101	1156	1218
75°	945	966	1007
80°	759	775	790
85°	556	494	494



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.4	3.5
10°-20°	188.4	10.2
20°-30°	286.6	15.4
30°-40°	342.9	18.5
40°-50°	346.7	18.7
50°-60°	298.4	16.1
60°-70°	206.0	11.1
70°-80°	99.9	5.4
80°-90°	21.7	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°	540.5	29.1
0°-40°	883.4	47.6
0°-60°	1528.5	82.4
0°-90°	1856.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1856.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	690	690	690	690	690	
5°	684	685	687	690	691	65
15°	653	657	667	677	682	184
25°	596	603	622	641	648	275
35°	518	526	550	570	578	323
45°	421	429	451	470	478	324
55°	314	319	335	350	356	280
65°	196	199	208	217	221	195
75°	91	89	93	96	97	96
85°	18	18	16	16	16	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	690.3	690.3	690.3	690.3	690.3
2.5°	687.3	687.3	689.3	691.3	692.3
5°	684.3	685.3	687.3	690.3	691.3
7.5°	679.3	680.3	684.3	689.3	691.3
10°	672.3	674.3	680.3	686.3	689.3
12.5°	663.3	667.3	674.3	682.3	686.3
15°	653.4	657.4	667.3	677.3	682.3
17.5°	642.4	646.4	658.4	671.3	676.3
20°	628.4	634.4	648.4	663.3	669.3
22.5°	612.4	620.4	636.4	652.4	659.4
25°	596.4	603.4	622.4	641.4	648.4
27.5°	578.4	586.4	607.4	626.4	633.4
30°	559.5	567.4	589.4	610.4	617.4
32.5°	538.5	548.5	569.4	591.4	599.4
35°	517.5	526.5	550.5	570.4	578.4
37.5°	495.5	503.5	527.5	548.5	556.5
40°	470.5	479.5	503.5	524.5	532.5
42.5°	446.6	455.6	477.5	497.5	504.5
45°	420.6	428.6	450.6	469.5	477.5
47.5°	394.6	403.6	422.6	441.6	449.6
50°	368.6	375.6	394.6	412.6	417.6
52.5°	341.7	347.7	364.6	380.6	387.6
55°	313.7	318.7	334.7	349.7	355.7
57.5°	283.7	289.7	304.7	315.7	322.7
60°	255.7	258.7	271.7	282.7	289.7
62.5°	227.8	228.8	238.8	249.8	253.8
65°	195.8	198.8	207.8	216.8	220.8
67.5°	166.8	169.8	176.8	183.8	186.8
70°	139.9	139.9	146.9	151.9	154.8
72.5°	112.9	113.9	118.9	121.9	124.9
75°	90.9	88.9	92.9	95.9	96.9
77.5°	67.9	66.9	69.9	70.9	72.9
80°	49.0	49.0	50.0	51.0	51.0
82.5°	32.0	32.0	33.0	31.0	30.0
85°	18.0	18.0	16.0	16.0	16.0
87.5°	6.0	6.0	6.0	7.0	6.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)