

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: P297971

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297971  
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-4000K  
Description: D3X LED 2x2 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (252) 80 CRI LEDS TUNED TO 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1949.0 lumens  
Efficiency: N/A  
Efficacy: 123.4 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

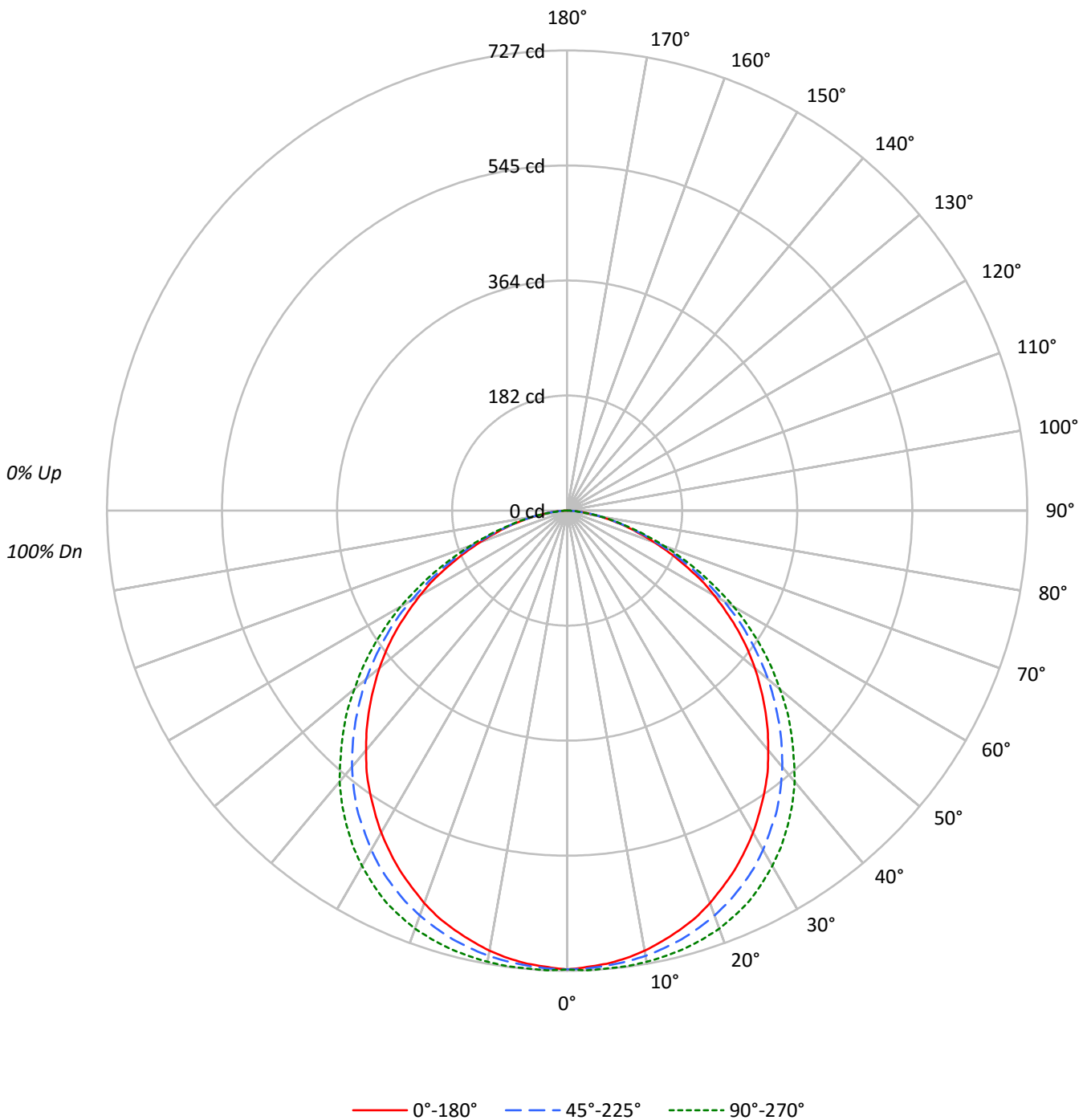
Input Watts (W): 15.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	1951	1951	1951
5°	1941	1950	1961
10°	1929	1952	1978
15°	1911	1952	1996
20°	1890	1950	2013
25°	1860	1941	2022
30°	1826	1923	2014
35°	1785	1899	1995
40°	1736	1857	1964
45°	1681	1800	1909
50°	1621	1735	1836
55°	1545	1649	1752
60°	1446	1535	1637
65°	1309	1389	1476
70°	1156	1213	1279
75°	993	1015	1058
80°	797	814	829
85°	584	519	519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	68.7	3.5
10°-20°	197.9	10.2
20°-30°	301.0	15.4
30°-40°	360.1	18.5
40°-50°	364.1	18.7
50°-60°	313.3	16.1
60°-70°	216.3	11.1
70°-80°	104.9	5.4
80°-90°	22.8	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°	567.6	29.1
0°-40°	927.7	47.6
0°-60°	1605.1	82.4
0°-90°	1949.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1949.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	725	725	725	725	725	
5°	719	720	722	725	726	68
15°	686	690	701	711	716	194
25°	626	634	654	674	681	288
35°	543	553	578	599	607	340
45°	442	450	473	493	502	341
55°	329	335	351	367	374	294
65°	206	209	218	228	232	205
75°	96	93	98	101	102	101
85°	19	19	17	17	17	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	724.9	724.9	724.9	724.9	724.9
2.5°	721.8	721.8	723.9	726.0	727.0
5°	718.6	719.7	721.8	724.9	726.0
7.5°	713.4	714.4	718.6	723.9	726.0
10°	706.0	708.1	714.4	720.7	723.9
12.5°	696.6	700.8	708.1	716.5	720.7
15°	686.1	690.3	700.8	711.3	716.5
17.5°	674.6	678.8	691.3	705.0	710.2
20°	659.9	666.2	680.9	696.6	702.9
22.5°	643.1	651.5	668.3	685.0	692.4
25°	626.3	633.6	653.6	673.5	680.9
27.5°	607.4	615.8	637.8	657.8	665.1
30°	587.5	595.9	619.0	641.0	648.3
32.5°	565.5	575.9	598.0	621.1	629.4
35°	543.4	552.9	578.0	599.0	607.4
37.5°	520.3	528.7	553.9	575.9	584.3
40°	494.1	503.6	528.7	550.8	559.2
42.5°	468.9	478.4	501.5	522.4	529.8
45°	441.7	450.1	473.1	493.1	501.5
47.5°	414.4	423.8	443.8	463.7	472.1
50°	387.1	394.5	414.4	433.3	438.5
52.5°	358.8	365.1	382.9	399.7	407.0
55°	329.4	334.7	351.4	367.2	373.5
57.5°	297.9	304.2	320.0	331.5	338.9
60°	268.6	271.7	285.3	296.9	304.2
62.5°	239.2	240.2	250.7	262.3	266.5
65°	205.6	208.8	218.2	227.7	231.8
67.5°	175.2	178.3	185.7	193.0	196.2
70°	146.9	146.9	154.2	159.5	162.6
72.5°	118.5	119.6	124.8	128.0	131.1
75°	95.5	93.4	97.6	100.7	101.8
77.5°	71.3	70.3	73.4	74.5	76.6
80°	51.4	51.4	52.5	53.5	53.5
82.5°	33.6	33.6	34.6	32.5	31.5
85°	18.9	18.9	16.8	16.8	16.8
87.5°	6.3	6.3	6.3	7.3	6.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)