

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: P297831

Luminaire Tested: **D3X-WO-23L83050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297831
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-23L83050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2485.0 lumens
Efficiency: N/A
Efficacy: 117.8 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.33
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

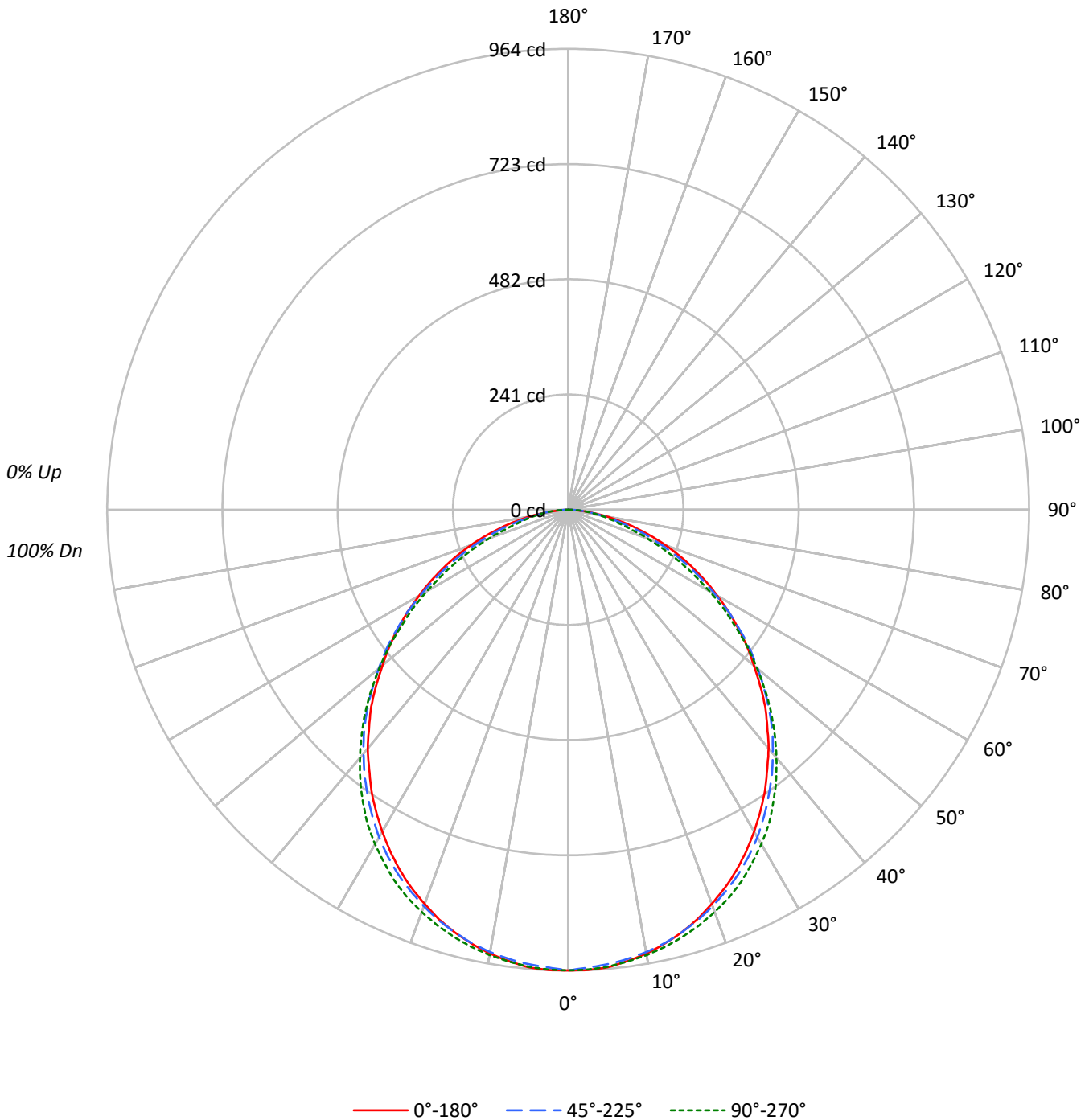
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	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	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	63	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	46	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	31	41	35	30	29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2594	2594	2594
5°	2595	2578	2592
10°	2576	2567	2585
15°	2550	2550	2577
20°	2513	2528	2564
25°	2471	2499	2546
30°	2416	2458	2510
35°	2357	2401	2457
40°	2290	2338	2379
45°	2217	2265	2285
50°	2121	2165	2156
55°	2041	2056	2001
60°	1939	1911	1837
65°	1831	1757	1636
70°	1699	1558	1384
75°	1512	1336	1140
80°	1257	1094	1062
85°	911	976	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.0	3.7
10°-20°	259.1	10.4
20°-30°	388.3	15.6
30°-40°	457.5	18.4
40°-50°	456.3	18.4
50°-60°	388.2	15.6
60°-70°	270.9	10.9
70°-80°	137.7	5.5
80°-90°	36.0	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°	738.4	29.7
0°-40°	1195.9	48.1
0°-60°	2040.4	82.1
0°-90°	2485.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2485.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	961	959	954	960	960	91
15°	915	915	915	924	925	258
25°	832	833	842	854	858	383
35°	717	718	731	746	748	448
45°	582	585	595	599	600	448
55°	435	435	438	432	427	389
65°	288	283	276	261	257	285
75°	145	140	128	113	110	154
85°	30	30	32	32	32	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.8	963.8	963.8	963.8	963.8
2.5°	963.8	962.8	958.6	962.8	962.8
5°	960.7	958.6	954.4	959.6	959.6
7.5°	952.3	951.2	948.0	953.3	953.3
10°	942.8	941.7	939.6	945.9	945.9
12.5°	930.1	930.1	929.1	935.4	936.5
15°	915.4	915.4	915.4	923.8	924.9
17.5°	898.5	897.5	900.6	910.1	911.2
20°	877.5	878.5	882.7	893.3	895.4
22.5°	856.4	857.5	862.7	875.4	878.5
25°	832.2	833.2	841.7	854.3	857.5
27.5°	805.8	807.9	817.4	831.1	833.2
30°	777.4	779.5	791.1	804.8	807.9
32.5°	747.9	751.1	761.6	776.3	780.6
35°	717.4	718.4	731.0	745.8	747.9
37.5°	683.6	686.8	699.4	712.1	714.2
40°	652.0	654.2	665.7	676.3	677.3
42.5°	616.2	619.4	632.0	639.4	639.4
45°	582.5	584.6	595.2	599.4	600.4
47.5°	544.6	546.7	556.2	558.3	558.3
50°	506.7	511.9	517.2	517.2	515.1
52.5°	471.9	473.0	479.3	475.1	473.0
55°	435.0	435.0	438.2	431.9	426.6
57.5°	398.2	398.2	398.2	389.8	385.5
60°	360.3	359.2	355.0	344.5	341.3
62.5°	324.4	321.3	315.0	304.4	298.1
65°	287.6	283.4	276.0	261.2	257.0
67.5°	252.8	245.4	237.0	223.3	215.9
70°	215.9	209.6	198.0	182.2	175.9
72.5°	180.1	173.8	164.3	148.5	139.0
75°	145.4	140.1	128.5	112.7	109.6
77.5°	111.7	108.5	96.9	89.5	88.5
80°	81.1	80.1	70.6	68.5	68.5
82.5°	53.7	52.7	49.5	49.5	48.5
85°	29.5	30.5	31.6	31.6	31.6
87.5°	10.5	12.6	14.7	14.7	14.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)