

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: P297551

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297551
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-23L83050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2360.0 lumens
Efficiency: N/A
Efficacy: 111.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

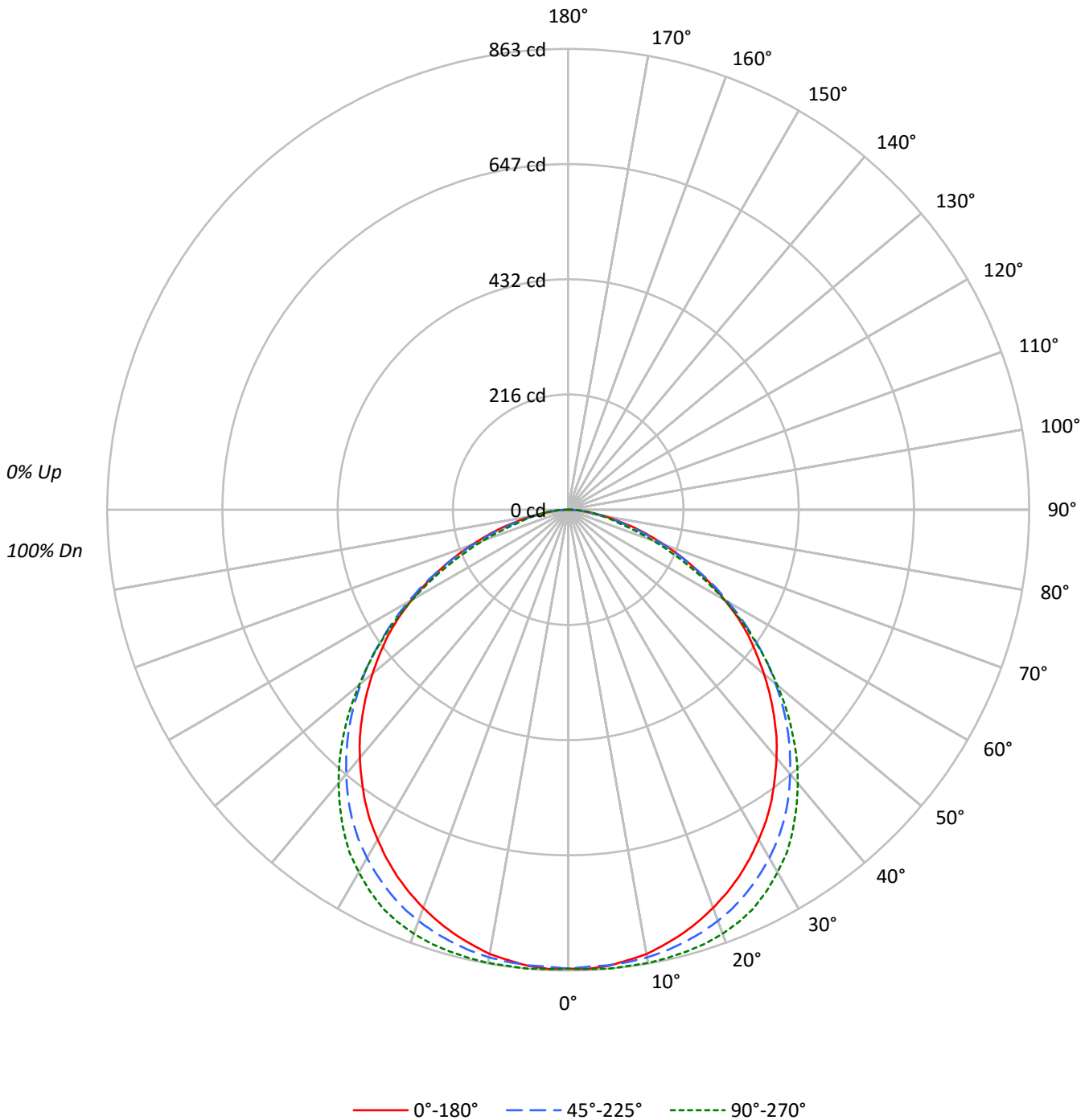
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2313	2313	2313
5°	2316	2314	2331
10°	2309	2326	2355
15°	2292	2336	2386
20°	2272	2347	2420
25°	2249	2349	2443
30°	2216	2340	2435
35°	2180	2319	2409
40°	2132	2272	2350
45°	2073	2209	2261
50°	2002	2121	2139
55°	1932	2007	1997
60°	1820	1859	1814
65°	1677	1684	1590
70°	1500	1467	1334
75°	1304	1215	1029
80°	1044	947	947
85°	747	877	911



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.5
10°-20°	237.3	10.1
20°-30°	364.3	15.4
30°-40°	438.8	18.6
40°-50°	443.4	18.8
50°-60°	378.2	16.0
60°-70°	258.9	11.0
70°-80°	125.0	5.3
80°-90°	32.2	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°	683.4	29.0
0°-40°	1122.2	47.6
0°-60°	1943.9	82.4
0°-90°	2360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	860	860	860	860	860	
5°	858	858	856	862	863	81
15°	823	829	839	853	856	232
25°	757	769	791	814	823	349
35°	664	678	706	728	733	415
45°	545	559	580	594	594	420
55°	412	419	428	430	426	367
65°	263	266	264	255	250	261
75°	125	125	117	103	99	133
85°	24	26	28	30	30	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	859.6	859.6	859.6	859.6	859.6
2.5°	860.7	859.6	856.5	860.7	860.7
5°	857.5	857.5	856.5	861.7	862.8
7.5°	851.2	853.3	854.4	860.7	861.7
10°	844.9	847.0	851.2	859.6	861.7
12.5°	834.3	838.6	845.9	857.5	859.6
15°	822.8	829.1	838.6	853.3	856.5
17.5°	809.1	817.5	830.1	847.0	852.2
20°	793.3	802.7	819.6	838.6	844.9
22.5°	776.4	786.9	806.9	829.1	835.4
25°	757.4	769.0	791.1	814.3	822.8
27.5°	736.4	749.0	773.2	797.5	804.8
30°	713.2	726.9	753.2	777.5	783.8
32.5°	690.0	703.7	731.1	754.3	761.6
35°	663.7	678.4	705.8	727.9	733.2
37.5°	635.2	650.0	677.4	699.5	701.6
40°	606.8	621.5	646.8	666.8	668.9
42.5°	577.3	591.0	614.2	631.0	633.1
45°	544.6	559.4	580.5	594.2	594.2
47.5°	512.0	526.7	544.6	554.1	554.1
50°	478.3	492.0	506.7	512.0	510.9
52.5°	444.6	457.2	469.8	470.9	468.8
55°	411.9	419.3	427.7	429.8	425.6
57.5°	376.1	382.4	387.7	384.5	381.4
60°	338.2	344.5	345.5	340.3	337.1
62.5°	301.3	306.6	306.6	298.1	292.9
65°	263.4	266.5	264.4	254.9	249.7
67.5°	227.5	229.7	225.4	216.0	207.5
70°	190.7	191.7	186.5	174.9	169.6
72.5°	157.0	158.0	151.7	138.0	131.7
75°	125.4	125.4	116.9	103.2	99.0
77.5°	93.8	96.9	87.4	80.1	80.1
80°	67.4	70.6	61.1	62.2	61.1
82.5°	44.2	47.4	44.2	44.2	44.2
85°	24.2	26.3	28.4	29.5	29.5
87.5°	7.4	12.6	13.7	14.7	16.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)