

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: P297860

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297860
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-23L82765-LD5-UNV-14-T1-W2A-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2461.0 lumens
Efficiency: N/A
Efficacy: 116.1 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

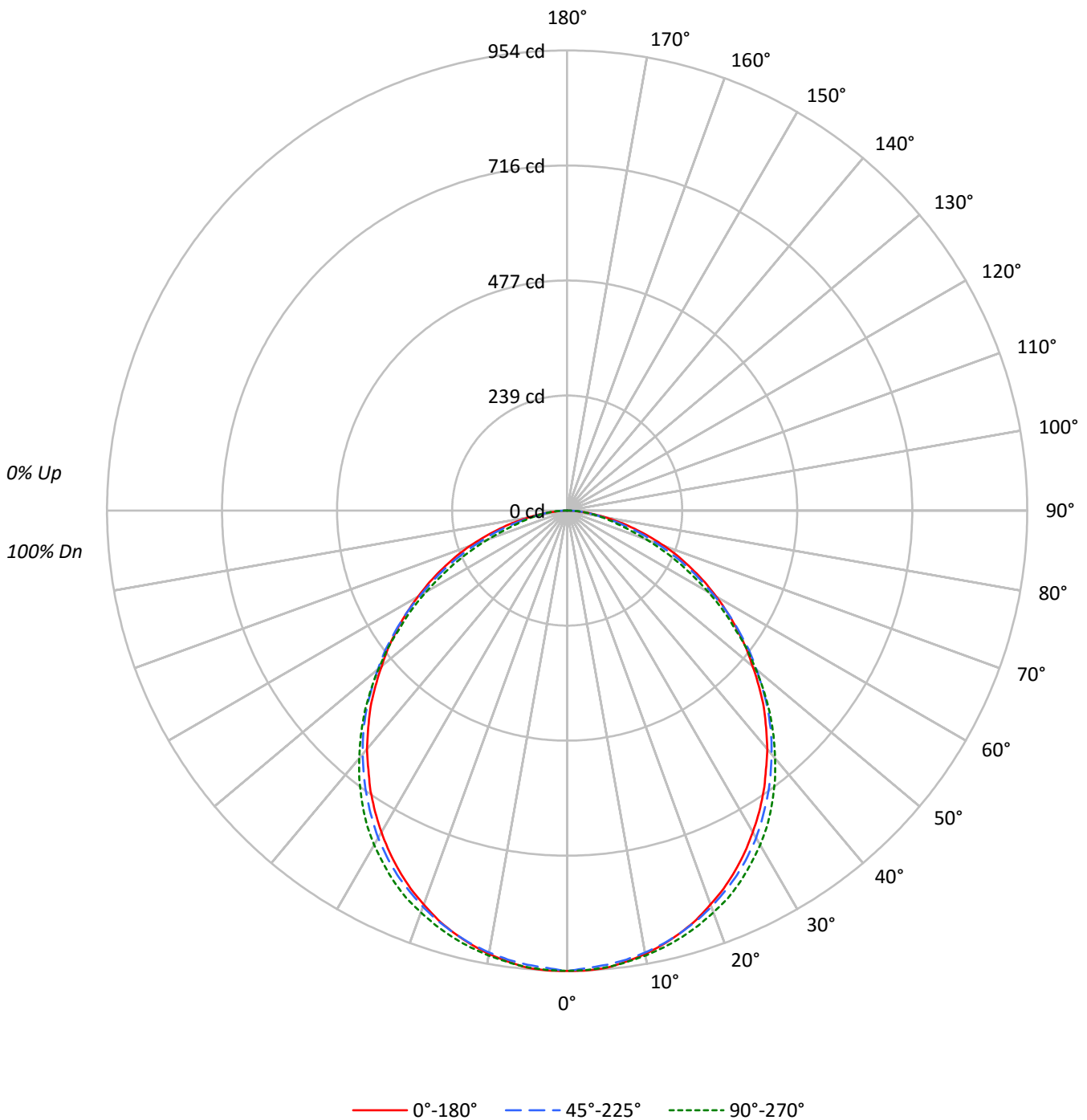
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	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°	2569	2569	2569
5°	2570	2553	2567
10°	2551	2543	2560
15°	2525	2525	2552
20°	2489	2503	2539
25°	2447	2475	2521
30°	2392	2435	2486
35°	2334	2378	2433
40°	2268	2316	2356
45°	2195	2243	2263
50°	2101	2144	2135
55°	2021	2036	1982
60°	1920	1892	1819
65°	1813	1740	1621
70°	1683	1543	1371
75°	1497	1324	1128
80°	1244	1083	1051
85°	902	966	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.1	3.7
10°-20°	256.6	10.4
20°-30°	384.6	15.6
30°-40°	453.1	18.4
40°-50°	451.9	18.4
50°-60°	384.4	15.6
60°-70°	268.3	10.9
70°-80°	136.4	5.5
80°-90°	35.6	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°	731.3	29.7
0°-40°	1184.4	48.1
0°-60°	2020.7	82.1
0°-90°	2461.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2461.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	954	954	954	954	954	
5°	951	949	945	950	950	90
15°	906	906	906	915	916	256
25°	824	825	834	846	849	379
35°	710	712	724	739	741	444
45°	577	579	589	594	595	444
55°	431	431	434	428	422	385
65°	285	281	273	259	254	282
75°	144	139	127	112	108	153
85°	29	30	31	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	954.5	954.5	954.5	954.5	954.5
2.5°	954.5	953.5	949.3	953.5	953.5
5°	951.4	949.3	945.1	950.4	950.4
7.5°	943.1	942.0	938.9	944.1	944.1
10°	933.7	932.6	930.5	936.8	936.8
12.5°	921.2	921.2	920.1	926.4	927.4
15°	906.5	906.5	906.5	914.9	915.9
17.5°	889.9	888.8	891.9	901.3	902.4
20°	869.0	870.0	874.2	884.6	886.7
22.5°	848.1	849.2	854.4	866.9	870.0
25°	824.1	825.2	833.5	846.0	849.2
27.5°	798.1	800.1	809.5	823.1	825.2
30°	769.9	772.0	783.5	797.0	800.1
32.5°	740.7	743.8	754.2	768.8	773.0
35°	710.4	711.5	724.0	738.6	740.7
37.5°	677.0	680.2	692.7	705.2	707.3
40°	645.7	647.8	659.3	669.7	670.8
42.5°	610.3	613.4	625.9	633.2	633.2
45°	576.9	579.0	589.4	593.6	594.6
47.5°	539.3	541.4	550.8	552.9	552.9
50°	501.8	507.0	512.2	512.2	510.1
52.5°	467.4	468.4	474.7	470.5	468.4
55°	430.8	430.8	434.0	427.7	422.5
57.5°	394.3	394.3	394.3	386.0	381.8
60°	356.8	355.7	351.6	341.1	338.0
62.5°	321.3	318.2	311.9	301.5	295.2
65°	284.8	280.6	273.3	258.7	254.5
67.5°	250.4	243.1	234.7	221.2	213.9
70°	213.9	207.6	196.1	180.5	174.2
72.5°	178.4	172.1	162.7	147.1	137.7
75°	144.0	138.7	127.3	111.6	108.5
77.5°	110.6	107.5	96.0	88.7	87.6
80°	80.3	79.3	69.9	67.8	67.8
82.5°	53.2	52.2	49.0	49.0	48.0
85°	29.2	30.3	31.3	31.3	31.3
87.5°	10.4	12.5	14.6	14.6	14.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)