

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: P297759

Luminaire Tested: **D3X-WG-23L93050-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297759
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WG-23L93050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1746.0 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

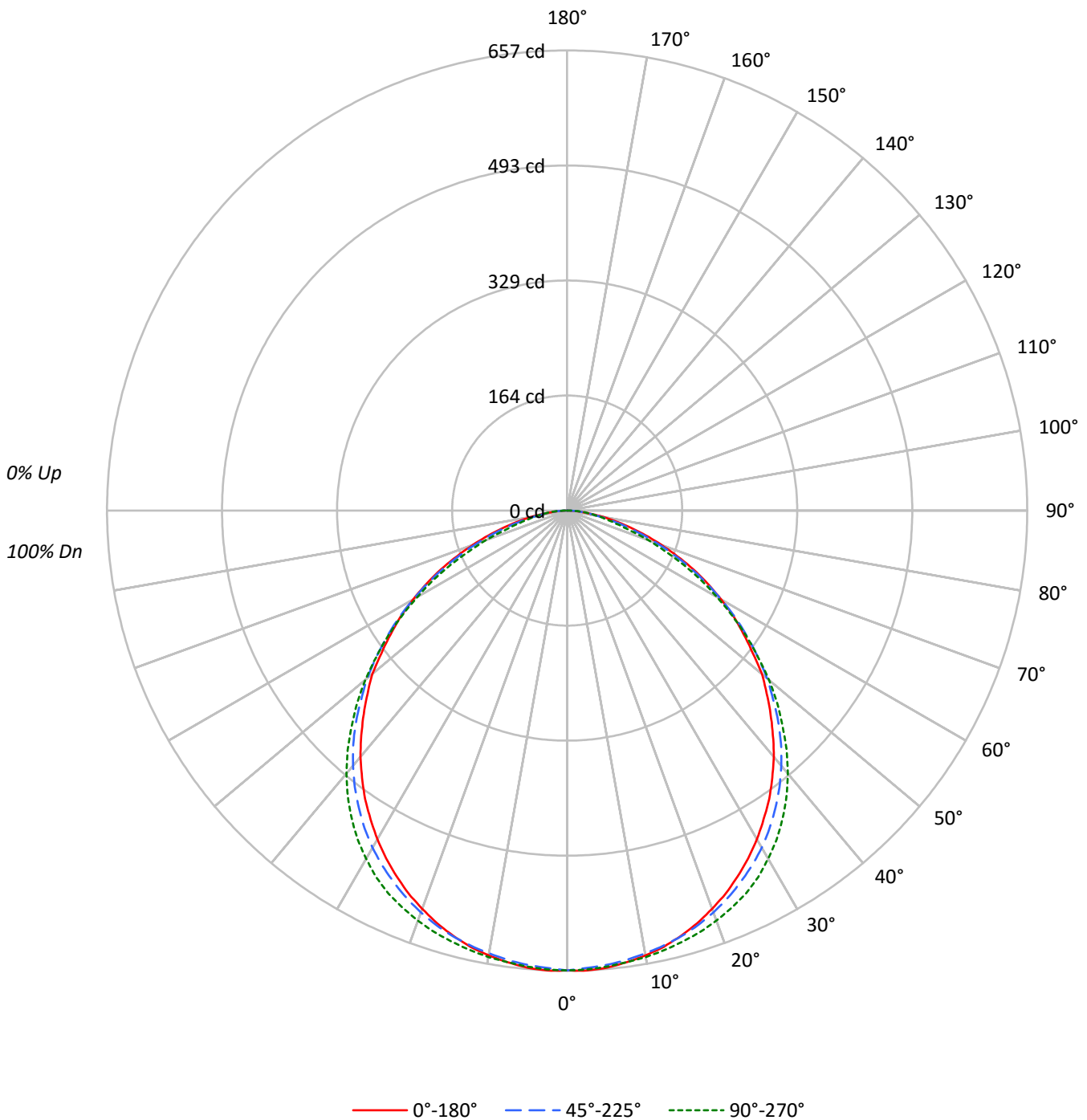
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54
5	77	65	56	49	75	63	55	49	61	54	48	59	53	48	58	52	47
6	71	58	49	43	69	57	49	43	55	48	43	54	47	42	52	46	42
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33
9	58	44	36	31	56	44	36	31	43	35	30	41	35	30	40	35	30
10	54	41	33	28	53	40	33	28	39	32	28	38	32	28	38	32	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1767	1767	1767
5°	1770	1759	1765
10°	1762	1754	1769
15°	1751	1753	1775
20°	1733	1749	1784
25°	1711	1739	1792
30°	1684	1727	1783
35°	1652	1703	1762
40°	1613	1670	1722
45°	1563	1622	1655
50°	1520	1559	1575
55°	1443	1473	1465
60°	1366	1366	1328
65°	1268	1238	1168
70°	1124	1075	971
75°	974	885	747
80°	798	690	677
85°	531	627	676



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	3.6
10°-20°	178.2	10.2
20°-30°	270.9	15.5
30°-40°	324.3	18.6
40°-50°	327.1	18.7
50°-60°	278.6	16.0
60°-70°	190.5	10.9
70°-80°	91.2	5.2
80°-90°	23.1	1.3
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°	511.1	29.3
0°-40°	835.4	47.8
0°-60°	1441.2	82.5
0°-90°	1746.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1746.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	657	657	657	657	657	
5°	655	654	651	654	654	62
15°	628	627	629	636	637	177
25°	576	577	586	599	604	265
35°	503	504	518	533	536	314
45°	411	414	426	435	435	317
55°	308	309	314	315	312	275
65°	199	195	194	187	184	196
75°	94	92	85	74	72	100
85°	17	19	20	21	22	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	656.6	656.6	656.6	656.6	656.6
2.5°	657.4	656.6	653.5	656.6	655.9
5°	655.1	654.3	651.2	654.3	653.5
7.5°	650.4	649.6	647.3	650.4	650.4
10°	644.9	643.4	641.8	646.5	647.3
12.5°	637.9	636.3	636.3	641.8	642.6
15°	628.5	627.0	629.3	636.3	637.1
17.5°	617.6	616.8	620.7	629.3	630.9
20°	605.1	604.3	610.6	620.7	623.1
22.5°	591.8	591.8	598.9	610.6	613.7
25°	576.2	577.0	585.6	598.9	603.5
27.5°	559.8	561.4	571.5	586.4	590.3
30°	541.9	544.2	555.9	570.0	573.9
32.5°	522.3	524.7	538.0	552.8	556.7
35°	502.8	504.4	518.4	533.3	536.4
37.5°	481.0	483.3	498.1	511.4	514.5
40°	459.1	461.4	475.5	488.0	490.3
42.5°	434.9	438.0	452.1	462.2	463.8
45°	410.7	413.8	426.3	434.9	434.9
47.5°	386.5	388.0	399.0	407.6	406.8
50°	363.1	362.3	372.4	376.3	376.3
52.5°	334.2	336.5	343.5	345.9	343.5
55°	307.6	309.2	313.9	314.7	312.3
57.5°	281.9	281.1	285.0	282.6	279.5
60°	253.8	253.8	253.8	251.4	246.7
62.5°	226.4	224.9	224.1	218.6	216.3
65°	199.1	195.2	194.4	187.4	183.5
67.5°	170.2	168.6	164.7	157.7	150.7
70°	142.9	141.3	136.6	128.0	123.4
72.5°	117.9	116.3	110.1	99.9	93.7
75°	93.7	92.1	85.1	74.2	71.8
77.5°	71.1	70.3	63.2	57.8	57.0
80°	51.5	50.8	44.5	44.5	43.7
82.5°	32.8	32.8	31.2	32.0	32.8
85°	17.2	18.7	20.3	21.1	21.9
87.5°	5.5	8.6	10.2	10.9	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)