

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: P297899

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297899
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-23L93050-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1842.0 lumens
Efficiency: N/A
Efficacy: 87.3 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

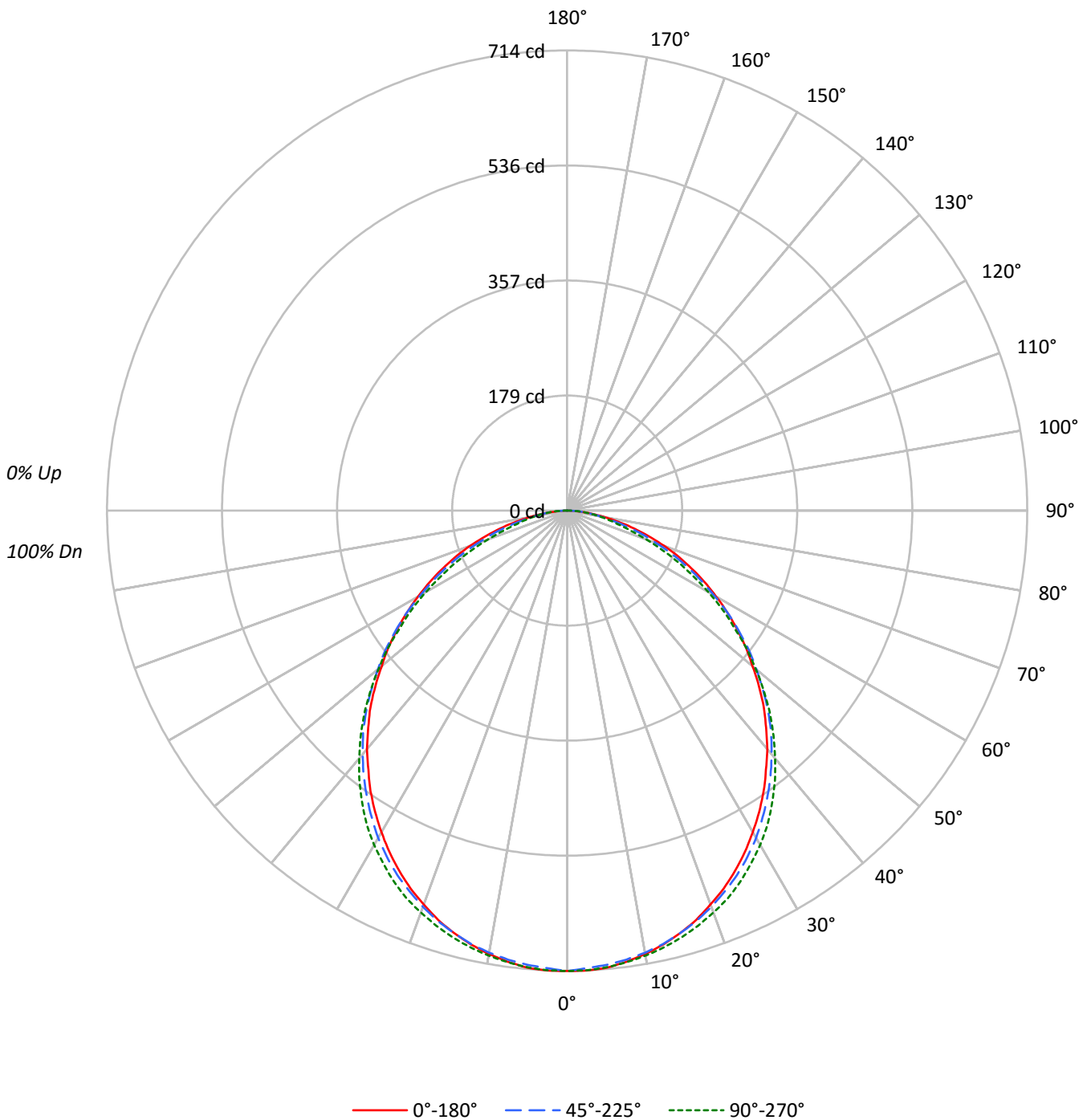
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1922	1922	1922
5°	1924	1911	1921
10°	1909	1903	1916
15°	1890	1890	1910
20°	1863	1874	1901
25°	1831	1852	1887
30°	1790	1822	1861
35°	1747	1780	1821
40°	1698	1734	1764
45°	1643	1679	1694
50°	1572	1605	1598
55°	1513	1524	1483
60°	1437	1416	1362
65°	1358	1303	1213
70°	1260	1155	1026
75°	1121	991	844
80°	931	810	787
85°	676	722	722



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	3.7
10°-20°	192.1	10.4
20°-30°	287.9	15.6
30°-40°	339.1	18.4
40°-50°	338.3	18.4
50°-60°	287.7	15.6
60°-70°	200.8	10.9
70°-80°	102.1	5.5
80°-90°	26.6	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°	547.3	29.7
0°-40°	886.5	48.1
0°-60°	1512.5	82.1
0°-90°	1842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	714	714	714	714	714	
5°	712	710	707	711	711	68
15°	678	678	678	685	686	191
25°	617	618	624	633	636	284
35°	532	532	542	553	554	332
45°	432	433	441	444	445	332
55°	322	322	325	320	316	288
65°	213	210	205	194	190	211
75°	108	104	95	84	81	114
85°	22	23	23	23	23	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	714.4	714.4	714.4	714.4	714.4
2.5°	714.4	713.7	710.5	713.7	713.7
5°	712.1	710.5	707.4	711.3	711.3
7.5°	705.9	705.1	702.7	706.6	706.6
10°	698.8	698.1	696.5	701.2	701.2
12.5°	689.5	689.5	688.7	693.4	694.1
15°	678.5	678.5	678.5	684.8	685.6
17.5°	666.0	665.3	667.6	674.6	675.4
20°	650.4	651.2	654.3	662.1	663.7
22.5°	634.8	635.6	639.5	648.9	651.2
25°	616.8	617.6	623.9	633.2	635.6
27.5°	597.3	598.9	605.9	616.1	617.6
30°	576.2	577.8	586.4	596.5	598.9
32.5°	554.4	556.7	564.5	575.5	578.6
35°	531.7	532.5	541.9	552.8	554.4
37.5°	506.8	509.1	518.5	527.8	529.4
40°	483.3	484.9	493.5	501.3	502.1
42.5°	456.8	459.1	468.5	474.0	474.0
45°	431.8	433.4	441.2	444.3	445.1
47.5°	403.7	405.2	412.3	413.8	413.8
50°	375.6	379.5	383.4	383.4	381.8
52.5°	349.8	350.6	355.3	352.1	350.6
55°	322.5	322.5	324.8	320.1	316.2
57.5°	295.1	295.1	295.1	288.9	285.8
60°	267.0	266.3	263.1	255.3	253.0
62.5°	240.5	238.1	233.5	225.7	221.0
65°	213.2	210.0	204.6	193.6	190.5
67.5°	187.4	181.9	175.7	165.5	160.1
70°	160.1	155.4	146.8	135.1	130.4
72.5°	133.5	128.8	121.8	110.1	103.1
75°	107.8	103.8	95.3	83.5	81.2
77.5°	82.8	80.4	71.8	66.4	65.6
80°	60.1	59.3	52.3	50.8	50.8
82.5°	39.8	39.0	36.7	36.7	35.9
85°	21.9	22.6	23.4	23.4	23.4
87.5°	7.8	9.4	10.9	10.9	10.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)