

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: P297900

Luminaire Tested: **D3X-WO-23L93050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297900
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-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2011.9 lumens
Efficiency: N/A
Efficacy: 95.8 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

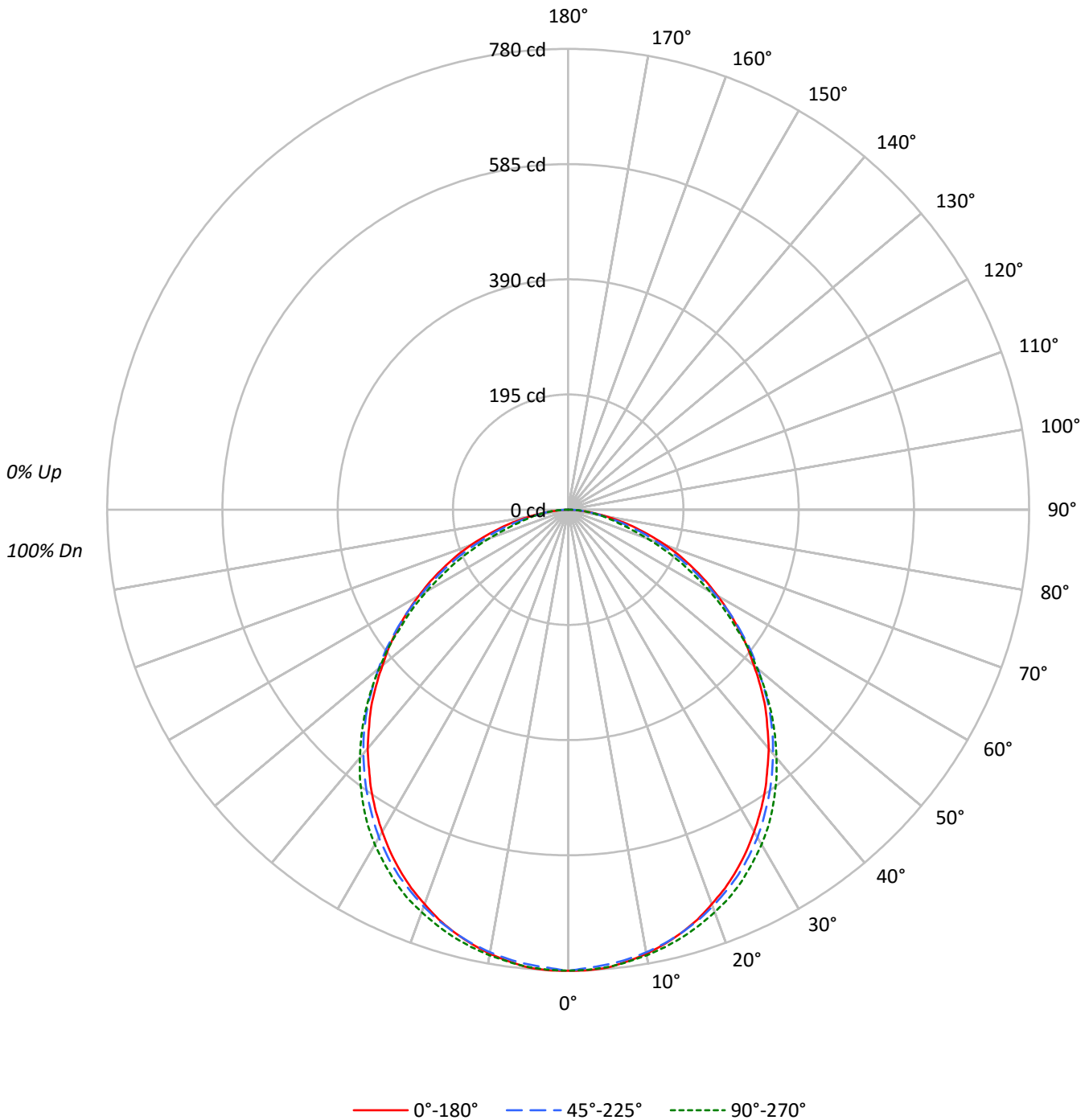
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2100	2100	2100
5°	2101	2087	2099
10°	2086	2079	2093
15°	2065	2065	2086
20°	2034	2047	2076
25°	2001	2023	2061
30°	1956	1990	2033
35°	1908	1944	1989
40°	1854	1893	1926
45°	1795	1834	1850
50°	1717	1753	1746
55°	1652	1665	1620
60°	1570	1547	1487
65°	1482	1423	1325
70°	1375	1261	1120
75°	1224	1082	922
80°	1018	885	859
85°	738	790	790



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.6	3.7
10°-20°	209.8	10.4
20°-30°	314.4	15.6
30°-40°	370.4	18.4
40°-50°	369.5	18.4
50°-60°	314.3	15.6
60°-70°	219.3	10.9
70°-80°	111.5	5.5
80°-90°	29.1	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°	597.9	29.7
0°-40°	968.3	48.1
0°-60°	1652.0	82.1
0°-90°	2011.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2011.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	780	780	780	780	780	
5°	778	776	773	777	777	74
15°	741	741	741	748	749	209
25°	674	675	682	692	694	310
35°	581	582	592	604	606	363
45°	472	473	482	485	486	363
55°	352	352	355	350	345	315
65°	233	229	224	212	208	231
75°	118	113	104	91	89	125
85°	24	25	26	26	26	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	780.4	780.4	780.4	780.4	780.4
2.5°	780.4	779.5	776.1	779.5	779.5
5°	777.8	776.1	772.7	777.0	777.0
7.5°	771.0	770.2	767.6	771.9	771.9
10°	763.3	762.5	760.8	765.9	765.9
12.5°	753.1	753.1	752.2	757.4	758.2
15°	741.2	741.2	741.2	748.0	748.8
17.5°	727.5	726.7	729.2	736.9	737.7
20°	710.4	711.3	714.7	723.2	724.9
22.5°	693.4	694.2	698.5	708.7	711.3
25°	673.8	674.6	681.5	691.7	694.2
27.5°	652.5	654.2	661.8	672.9	674.6
30°	629.4	631.1	640.5	651.6	654.2
32.5°	605.5	608.1	616.6	628.6	632.0
35°	580.8	581.7	591.9	603.8	605.5
37.5°	553.5	556.1	566.3	576.5	578.3
40°	527.9	529.6	539.0	547.5	548.4
42.5°	498.9	501.5	511.7	517.7	517.7
45°	471.6	473.3	481.9	485.3	486.1
47.5°	440.9	442.6	450.3	452.0	452.0
50°	410.2	414.5	418.8	418.8	417.1
52.5°	382.1	382.9	388.1	384.6	382.9
55°	352.2	352.2	354.8	349.7	345.4
57.5°	322.4	322.4	322.4	315.6	312.2
60°	291.7	290.8	287.4	278.9	276.3
62.5°	262.7	260.1	255.0	246.5	241.4
65°	232.8	229.4	223.5	211.5	208.1
67.5°	204.7	198.7	191.9	180.8	174.8
70°	174.8	169.7	160.3	147.5	142.4
72.5°	145.8	140.7	133.0	120.3	112.6
75°	117.7	113.4	104.1	91.3	88.7
77.5°	90.4	87.8	78.5	72.5	71.6
80°	65.7	64.8	57.1	55.4	55.4
82.5°	43.5	42.6	40.1	40.1	39.2
85°	23.9	24.7	25.6	25.6	25.6
87.5°	8.5	10.2	11.9	11.9	11.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)