

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: P297902

Luminaire Tested: **D3X-WO-23L93050-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297902
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-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2211.0 lumens
Efficiency: N/A
Efficacy: 102.8 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

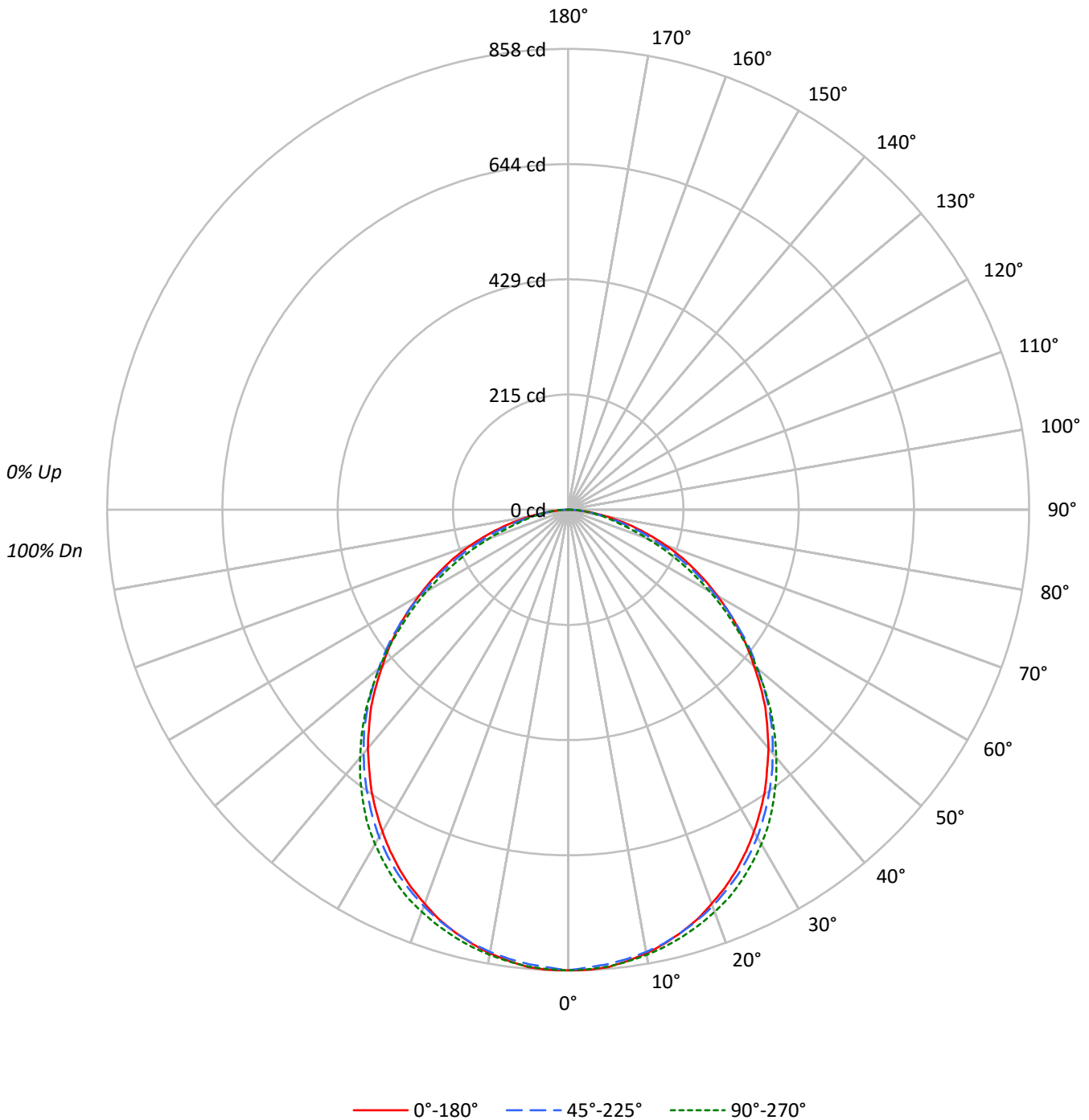
Input Watts (W): 21.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2308	2308	2308
5°	2309	2294	2306
10°	2292	2284	2300
15°	2269	2269	2293
20°	2236	2249	2281
25°	2198	2224	2265
30°	2149	2187	2234
35°	2097	2137	2186
40°	2038	2081	2117
45°	1972	2015	2033
50°	1887	1927	1919
55°	1816	1829	1781
60°	1725	1700	1635
65°	1629	1564	1456
70°	1511	1386	1231
75°	1344	1188	1014
80°	1119	973	944
85°	809	868	868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	3.7
10°-20°	230.5	10.4
20°-30°	345.5	15.6
30°-40°	407.1	18.4
40°-50°	406.0	18.4
50°-60°	345.4	15.6
60°-70°	241.0	10.9
70°-80°	122.5	5.5
80°-90°	32.0	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°	657.0	29.7
0°-40°	1064.1	48.1
0°-60°	1815.5	82.1
0°-90°	2211.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2211.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	855	853	849	854	854	81
15°	814	814	814	822	823	230
25°	740	741	749	760	763	341
35°	638	639	650	664	665	399
45°	518	520	530	533	534	399
55°	387	387	390	384	380	346
65°	256	252	246	232	229	254
75°	129	125	114	100	98	137
85°	26	27	28	28	28	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.6	857.6	857.6	857.6	857.6
2.5°	857.6	856.6	852.9	856.6	856.6
5°	854.8	852.9	849.1	853.8	853.8
7.5°	847.3	846.3	843.5	848.2	848.2
10°	838.8	837.9	836.0	841.6	841.6
12.5°	827.6	827.6	826.6	832.3	833.2
15°	814.5	814.5	814.5	822.0	822.9
17.5°	799.5	798.5	801.3	809.8	810.7
20°	780.7	781.7	785.4	794.8	796.6
22.5°	762.0	762.9	767.6	778.8	781.7
25°	740.4	741.4	748.9	760.1	762.9
27.5°	717.0	718.9	727.3	739.5	741.4
30°	691.7	693.6	703.9	716.0	718.9
32.5°	665.4	668.2	677.6	690.7	694.5
35°	638.3	639.2	650.4	663.6	665.4
37.5°	608.3	611.1	622.3	633.6	635.4
40°	580.1	582.0	592.3	601.7	602.6
42.5°	548.3	551.1	562.3	568.9	568.9
45°	518.3	520.2	529.5	533.3	534.2
47.5°	484.6	486.4	494.9	496.7	496.7
50°	450.8	455.5	460.2	460.2	458.3
52.5°	419.9	420.8	426.4	422.7	420.8
55°	387.1	387.1	389.9	384.3	379.6
57.5°	354.3	354.3	354.3	346.8	343.0
60°	320.5	319.6	315.8	306.5	303.7
62.5°	288.7	285.9	280.2	270.9	265.2
65°	255.9	252.1	245.6	232.4	228.7
67.5°	224.9	218.4	210.9	198.7	192.1
70°	192.1	186.5	176.2	162.1	156.5
72.5°	160.3	154.6	146.2	132.2	123.7
75°	129.3	124.7	114.3	100.3	97.5
77.5°	99.3	96.5	86.2	79.7	78.7
80°	72.2	71.2	62.8	60.9	60.9
82.5°	47.8	46.9	44.1	44.1	43.1
85°	26.2	27.2	28.1	28.1	28.1
87.5°	9.4	11.2	13.1	13.1	13.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)