

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: P297830

Luminaire Tested: **D3X-WO-23L83050-LD5-UNV-14-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297830
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-23L83050-LD5-UNV-14-T1-W2A-3500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2367.0 lumens
Efficiency: N/A
Efficacy: 114.9 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

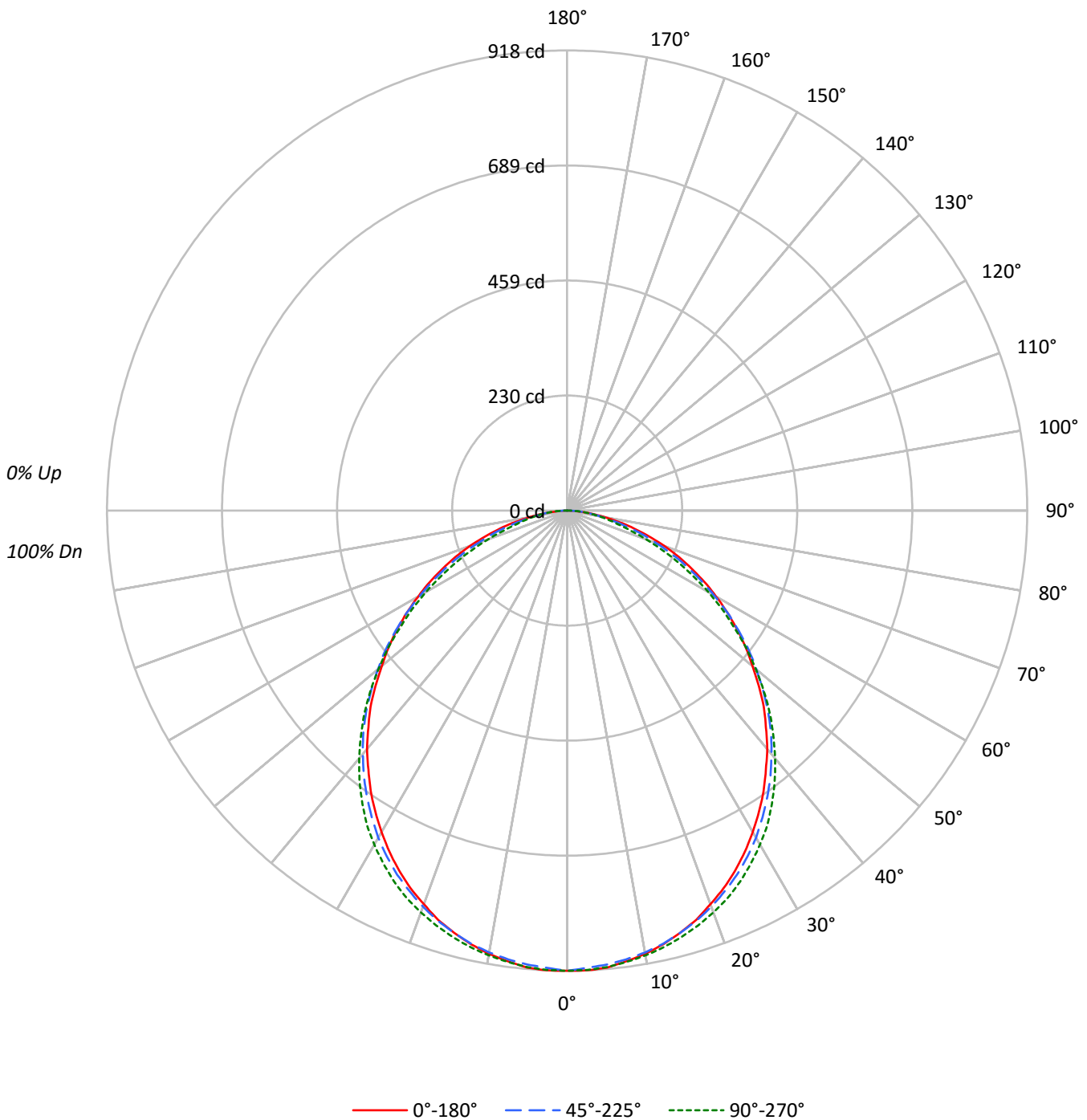
Input Watts (W): 20.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2471	2471	2471
5°	2472	2455	2469
10°	2454	2446	2462
15°	2429	2429	2454
20°	2393	2408	2442
25°	2354	2380	2425
30°	2301	2341	2391
35°	2245	2287	2340
40°	2182	2227	2266
45°	2112	2157	2176
50°	2020	2063	2054
55°	1944	1958	1907
60°	1847	1820	1750
65°	1744	1674	1559
70°	1618	1484	1319
75°	1440	1273	1084
80°	1198	1041	1010
85°	868	929	929



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	3.7
10°-20°	246.8	10.4
20°-30°	369.9	15.6
30°-40°	435.8	18.4
40°-50°	434.7	18.4
50°-60°	369.7	15.6
60°-70°	258.0	10.9
70°-80°	131.2	5.5
80°-90°	34.3	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°	703.4	29.7
0°-40°	1139.2	48.1
0°-60°	1943.5	82.1
0°-90°	2367.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2367.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	918	918	918	918	918	
5°	915	913	909	914	914	87
15°	872	872	872	880	881	246
25°	793	794	802	814	817	365
35°	683	684	696	710	712	427
45°	555	557	567	571	572	427
55°	414	414	417	411	406	370
65°	274	270	263	249	245	272
75°	138	133	122	107	104	147
85°	28	29	30	30	30	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.1	918.1	918.1	918.1	918.1
2.5°	918.1	917.1	913.1	917.1	917.1
5°	915.1	913.1	909.0	914.1	914.1
7.5°	907.0	906.0	903.0	908.0	908.0
10°	898.0	897.0	895.0	901.0	901.0
12.5°	886.0	886.0	885.0	891.0	892.0
15°	871.9	871.9	871.9	879.9	881.0
17.5°	855.9	854.9	857.9	866.9	867.9
20°	835.8	836.8	840.8	850.9	852.9
22.5°	815.7	816.7	821.8	833.8	836.8
25°	792.7	793.7	801.7	813.7	816.7
27.5°	767.6	769.6	778.6	791.7	793.7
30°	740.5	742.5	753.5	766.6	769.6
32.5°	712.4	715.4	725.4	739.5	743.5
35°	683.3	684.3	696.3	710.4	712.4
37.5°	651.2	654.2	666.2	678.3	680.3
40°	621.1	623.1	634.1	644.2	645.2
42.5°	587.0	590.0	602.0	609.0	609.0
45°	554.9	556.9	566.9	570.9	571.9
47.5°	518.7	520.7	529.8	531.8	531.8
50°	482.6	487.6	492.7	492.7	490.6
52.5°	449.5	450.5	456.5	452.5	450.5
55°	414.4	414.4	417.4	411.4	406.4
57.5°	379.3	379.3	379.3	371.2	367.2
60°	343.2	342.1	338.1	328.1	325.1
62.5°	309.0	306.0	300.0	290.0	284.0
65°	273.9	269.9	262.9	248.8	244.8
67.5°	240.8	233.8	225.8	212.7	205.7
70°	205.7	199.7	188.6	173.6	167.6
72.5°	171.6	165.6	156.5	141.5	132.4
75°	138.5	133.4	122.4	107.4	104.3
77.5°	106.4	103.3	92.3	85.3	84.3
80°	77.3	76.3	67.2	65.2	65.2
82.5°	51.2	50.2	47.2	47.2	46.2
85°	28.1	29.1	30.1	30.1	30.1
87.5°	10.0	12.0	14.0	14.0	14.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)