

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: P297859

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297859
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-23L82765-LD5-UNV-14-T1-W2A-5000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2437.0 lumens
Efficiency: N/A
Efficacy: 115.5 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

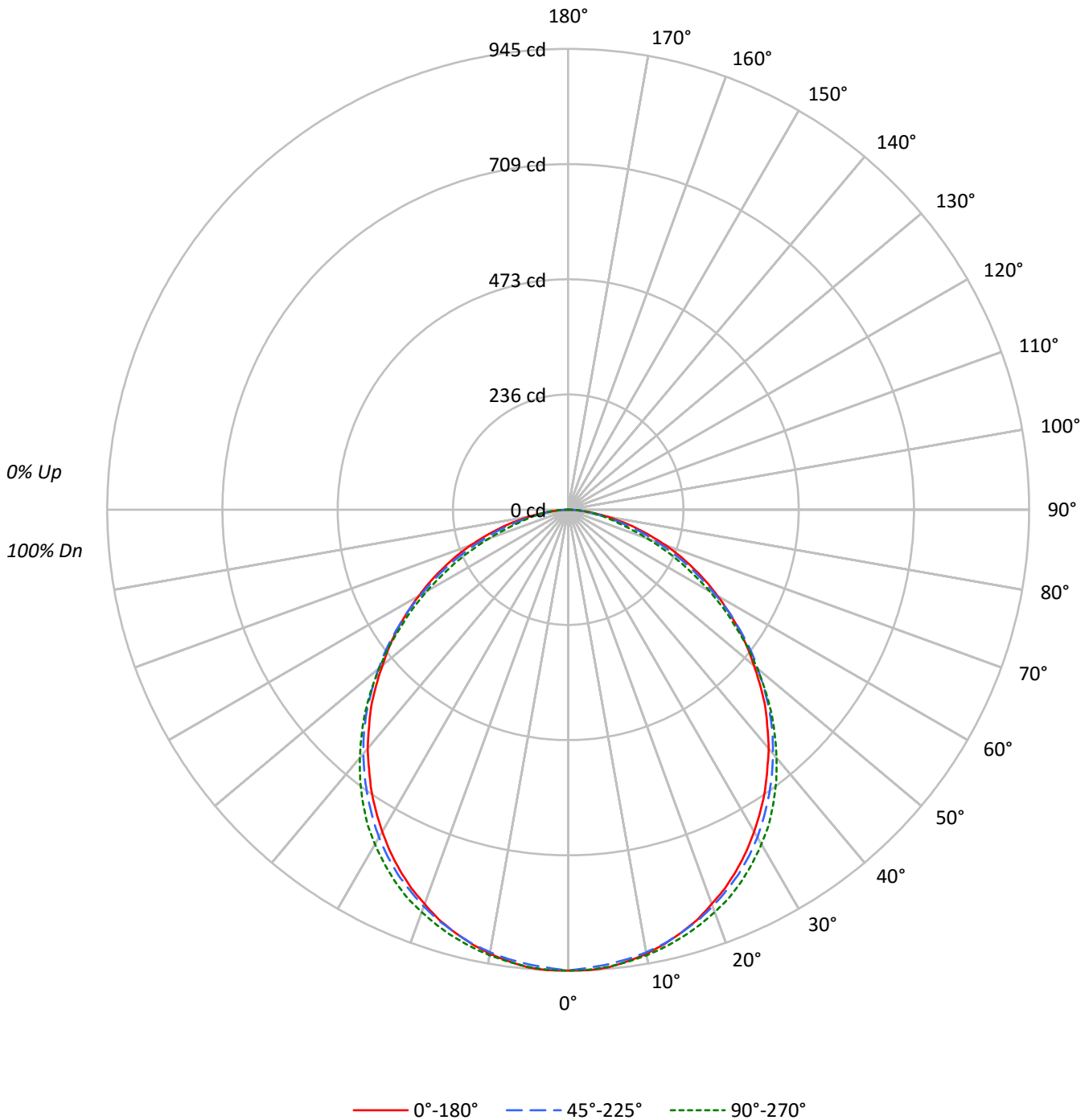
Input Watts (W): 21.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2544	2544	2544
5°	2545	2528	2542
10°	2526	2518	2535
15°	2501	2501	2527
20°	2464	2479	2515
25°	2423	2451	2497
30°	2369	2411	2462
35°	2311	2355	2410
40°	2246	2294	2333
45°	2174	2221	2241
50°	2080	2123	2115
55°	2001	2016	1963
60°	1901	1873	1801
65°	1796	1724	1605
70°	1666	1528	1357
75°	1483	1310	1117
80°	1232	1072	1040
85°	892	957	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.2	3.7
10°-20°	254.1	10.4
20°-30°	380.8	15.6
30°-40°	448.7	18.4
40°-50°	447.5	18.4
50°-60°	380.6	15.6
60°-70°	265.7	10.9
70°-80°	135.0	5.5
80°-90°	35.3	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°	724.1	29.7
0°-40°	1172.8	48.1
0°-60°	2001.0	82.1
0°-90°	2437.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2437.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	945	945	945	945	945	
5°	942	940	936	941	941	89
15°	898	898	898	906	907	253
25°	816	817	825	838	841	376
35°	704	704	717	731	734	440
45°	571	573	584	588	589	440
55°	427	427	430	424	418	381
65°	282	278	271	256	252	280
75°	143	137	126	110	107	151
85°	29	30	31	31	31	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	945.2	945.2	945.2	945.2	945.2
2.5°	945.2	944.2	940.1	944.2	944.2
5°	942.1	940.1	935.9	941.1	941.1
7.5°	933.9	932.8	929.7	934.9	934.9
10°	924.6	923.5	921.5	927.7	927.7
12.5°	912.2	912.2	911.1	917.3	918.4
15°	897.7	897.7	897.7	906.0	907.0
17.5°	881.2	880.1	883.2	892.5	893.6
20°	860.5	861.6	865.7	876.0	878.1
22.5°	839.9	840.9	846.1	858.5	861.6
25°	816.1	817.1	825.4	837.8	840.9
27.5°	790.3	792.3	801.6	815.1	817.1
30°	762.4	764.4	775.8	789.2	792.3
32.5°	733.5	736.6	746.9	761.3	765.5
35°	703.5	704.5	716.9	731.4	733.5
37.5°	670.4	673.5	685.9	698.3	700.4
40°	639.4	641.5	652.9	663.2	664.2
42.5°	604.3	607.4	619.8	627.1	627.1
45°	571.3	573.3	583.7	587.8	588.8
47.5°	534.1	536.1	545.4	547.5	547.5
50°	496.9	502.1	507.2	507.2	505.2
52.5°	462.8	463.8	470.0	465.9	463.8
55°	426.6	426.6	429.7	423.5	418.4
57.5°	390.5	390.5	390.5	382.2	378.1
60°	353.3	352.3	348.1	337.8	334.7
62.5°	318.2	315.1	308.9	298.5	292.3
65°	282.0	277.9	270.7	256.2	252.1
67.5°	247.9	240.7	232.4	219.0	211.8
70°	211.8	205.6	194.2	178.7	172.5
72.5°	176.6	170.5	161.2	145.7	136.4
75°	142.6	137.4	126.0	110.5	107.4
77.5°	109.5	106.4	95.0	87.8	86.8
80°	79.5	78.5	69.2	67.1	67.1
82.5°	52.7	51.7	48.6	48.6	47.5
85°	28.9	30.0	31.0	31.0	31.0
87.5°	10.3	12.4	14.5	14.5	14.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)