

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: P297582

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-2)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WD-23L82765-LD5-UNV-14-T1-W2A-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2349.0 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.34 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

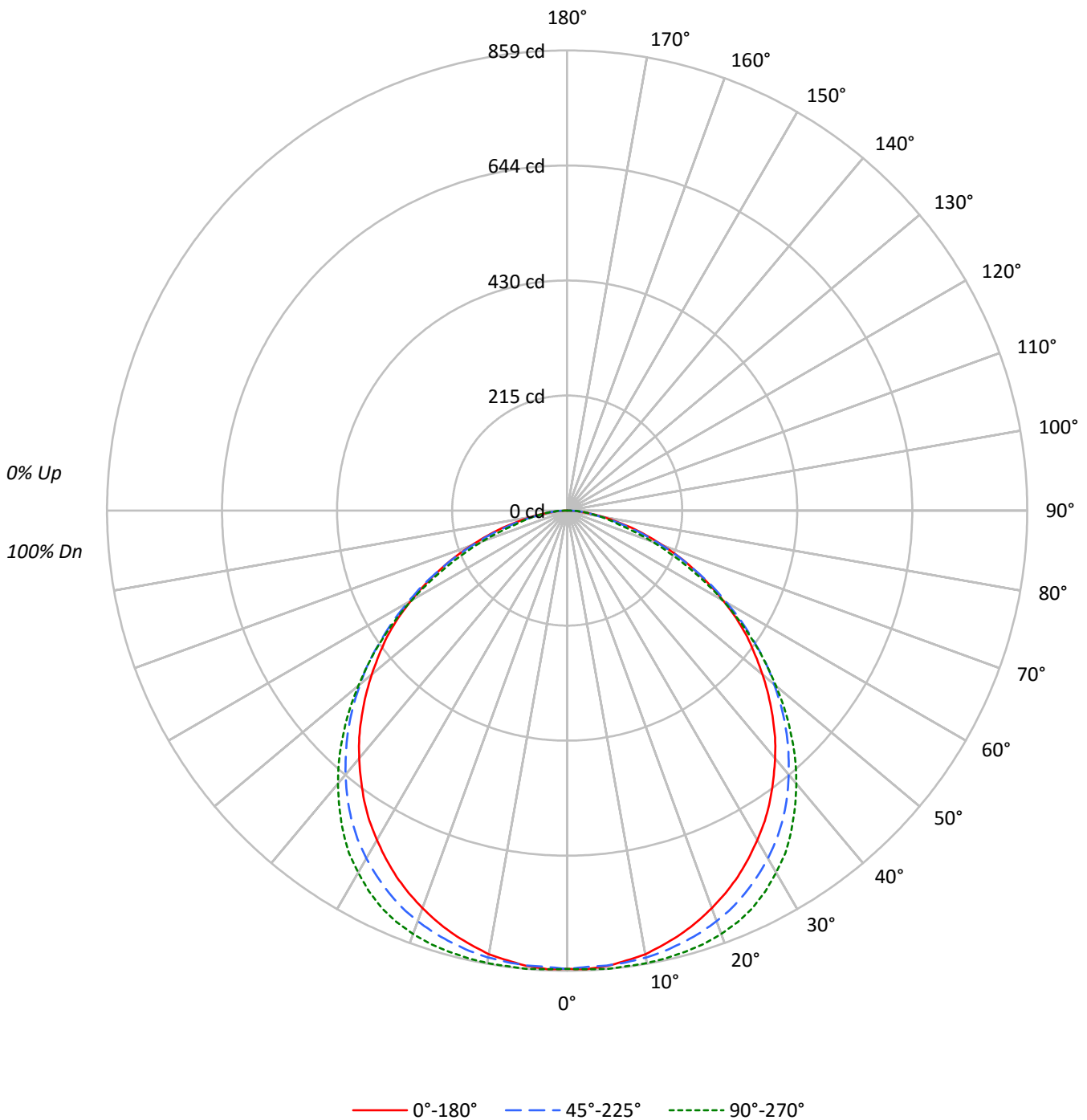
Input Watts (W): 21.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	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	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2302	2302	2302
5°	2306	2303	2320
10°	2298	2315	2344
15°	2281	2325	2375
20°	2261	2336	2408
25°	2238	2338	2431
30°	2206	2330	2424
35°	2170	2308	2397
40°	2122	2262	2339
45°	2063	2199	2251
50°	1993	2112	2129
55°	1924	1997	1987
60°	1812	1851	1806
65°	1669	1676	1582
70°	1493	1460	1328
75°	1298	1210	1025
80°	1040	942	942
85°	744	874	908



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.4	3.5
10°-20°	236.2	10.1
20°-30°	362.6	15.4
30°-40°	436.8	18.6
40°-50°	441.4	18.8
50°-60°	376.5	16.0
60°-70°	257.7	11.0
70°-80°	124.4	5.3
80°-90°	32.1	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°	680.2	29.0
0°-40°	1117.0	47.6
0°-60°	1934.9	82.4
0°-90°	2349.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2349.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	856	856	856	856	856	
5°	854	854	852	858	859	81
15°	819	825	835	849	852	231
25°	754	765	788	810	819	347
35°	661	675	702	724	730	413
45°	542	557	578	591	591	418
55°	410	417	426	428	424	365
65°	262	265	263	254	248	260
75°	125	125	116	103	99	132
85°	24	26	28	29	29	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	855.6	855.6	855.6	855.6	855.6
2.5°	856.7	855.6	852.5	856.7	856.7
5°	853.5	853.5	852.5	857.7	858.8
7.5°	847.2	849.3	850.4	856.7	857.7
10°	840.9	843.0	847.2	855.6	857.7
12.5°	830.4	834.6	842.0	853.5	855.6
15°	818.9	825.2	834.6	849.3	852.5
17.5°	805.3	813.7	826.3	843.0	848.3
20°	789.6	799.0	815.8	834.6	840.9
22.5°	772.8	783.3	803.2	825.2	831.5
25°	753.9	765.4	787.5	810.5	818.9
27.5°	732.9	745.5	769.6	793.8	801.1
30°	709.9	723.5	749.7	773.8	780.1
32.5°	686.8	700.4	727.7	750.8	758.1
35°	660.6	675.3	702.5	724.5	729.8
37.5°	632.3	647.0	674.2	696.2	698.3
40°	604.0	618.6	643.8	663.7	665.8
42.5°	574.6	588.2	611.3	628.1	630.2
45°	542.1	556.8	577.7	591.4	591.4
47.5°	509.6	524.3	542.1	551.5	551.5
50°	476.0	489.7	504.4	509.6	508.5
52.5°	442.5	455.1	467.7	468.7	466.6
55°	410.0	417.3	425.7	427.8	423.6
57.5°	374.3	380.6	385.9	382.7	379.6
60°	336.6	342.9	343.9	338.7	335.5
62.5°	299.9	305.1	305.1	296.7	291.5
65°	262.1	265.3	263.2	253.7	248.5
67.5°	226.5	228.6	224.4	215.0	206.6
70°	189.8	190.8	185.6	174.1	168.8
72.5°	156.2	157.3	151.0	137.4	131.1
75°	124.8	124.8	116.4	102.8	98.6
77.5°	93.3	96.5	87.0	79.7	79.7
80°	67.1	70.3	60.8	61.9	60.8
82.5°	44.0	47.2	44.0	44.0	44.0
85°	24.1	26.2	28.3	29.4	29.4
87.5°	7.3	12.6	13.6	14.7	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)