

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: P297855

Luminaire Tested: **D3X-WO-23L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297855
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-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2235.0 lumens
Efficiency: N/A
Efficacy: 109.0 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

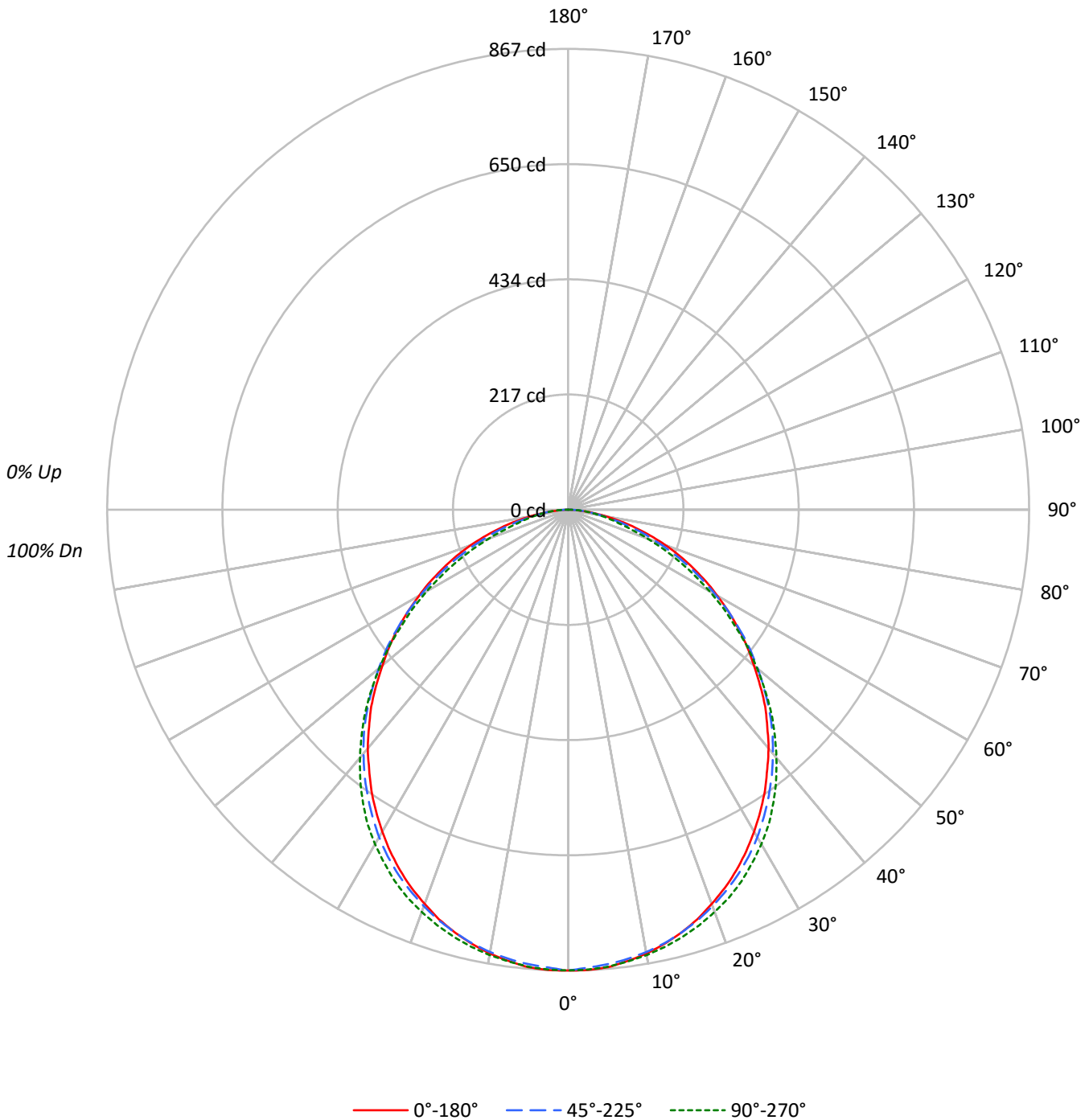
Input Watts (W): 20.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2333	2333	2333
5°	2334	2319	2331
10°	2317	2309	2325
15°	2294	2294	2317
20°	2260	2273	2306
25°	2222	2248	2290
30°	2173	2211	2258
35°	2120	2160	2210
40°	2060	2103	2140
45°	1994	2037	2055
50°	1908	1948	1940
55°	1836	1849	1800
60°	1744	1718	1652
65°	1647	1580	1472
70°	1528	1401	1245
75°	1359	1202	1024
80°	1131	984	955
85°	818	877	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	3.7
10°-20°	233.0	10.4
20°-30°	349.3	15.6
30°-40°	411.5	18.4
40°-50°	410.4	18.4
50°-60°	349.1	15.6
60°-70°	243.7	10.9
70°-80°	123.9	5.5
80°-90°	32.4	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°	664.1	29.7
0°-40°	1075.6	48.1
0°-60°	1835.1	82.1
0°-90°	2235.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2235.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	867	867	867	867	867	
5°	864	862	858	863	863	82
15°	823	823	823	831	832	232
25°	748	749	757	768	771	345
35°	645	646	658	671	673	403
45°	524	526	535	539	540	403
55°	391	391	394	388	384	350
65°	259	255	248	235	231	256
75°	131	126	116	101	98	139
85°	26	28	28	28	28	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	866.9	866.9	866.9	866.9	866.9
2.5°	866.9	865.9	862.1	865.9	865.9
5°	864.0	862.1	858.4	863.1	863.1
7.5°	856.5	855.5	852.7	857.4	857.4
10°	847.9	847.0	845.1	850.8	850.8
12.5°	836.6	836.6	835.6	841.3	842.2
15°	823.3	823.3	823.3	830.9	831.8
17.5°	808.1	807.2	810.0	818.6	819.5
20°	789.2	790.1	793.9	803.4	805.3
22.5°	770.2	771.2	775.9	787.3	790.1
25°	748.5	749.4	757.0	768.3	771.2
27.5°	724.8	726.7	735.2	747.5	749.4
30°	699.2	701.1	711.5	723.8	726.7
32.5°	672.7	675.5	685.0	698.2	702.0
35°	645.2	646.1	657.5	670.8	672.7
37.5°	614.9	617.7	629.1	640.4	642.3
40°	586.4	588.3	598.8	608.2	609.2
42.5°	554.2	557.1	568.4	575.1	575.1
45°	523.9	525.8	535.3	539.1	540.0
47.5°	489.8	491.7	500.2	502.1	502.1
50°	455.7	460.4	465.2	465.2	463.3
52.5°	424.4	425.4	431.1	427.3	425.4
55°	391.3	391.3	394.1	388.4	383.7
57.5°	358.1	358.1	358.1	350.5	346.8
60°	324.0	323.1	319.3	309.8	307.0
62.5°	291.8	289.0	283.3	273.8	268.1
65°	258.6	254.9	248.2	235.0	231.2
67.5°	227.4	220.7	213.2	200.9	194.2
70°	194.2	188.5	178.1	163.9	158.2
72.5°	162.0	156.3	147.8	133.6	125.1
75°	130.7	126.0	115.6	101.4	98.5
77.5°	100.4	97.6	87.2	80.5	79.6
80°	73.0	72.0	63.5	61.6	61.6
82.5°	48.3	47.4	44.5	44.5	43.6
85°	26.5	27.5	28.4	28.4	28.4
87.5°	9.5	11.4	13.3	13.3	13.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)