

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: P297580

Luminaire Tested: **D3X-WD-23L82765-LD5-UNV-14-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297580  
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-5500K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH ROUND PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2337.0 lumens  
Efficiency: N/A  
Efficacy: 110.2 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

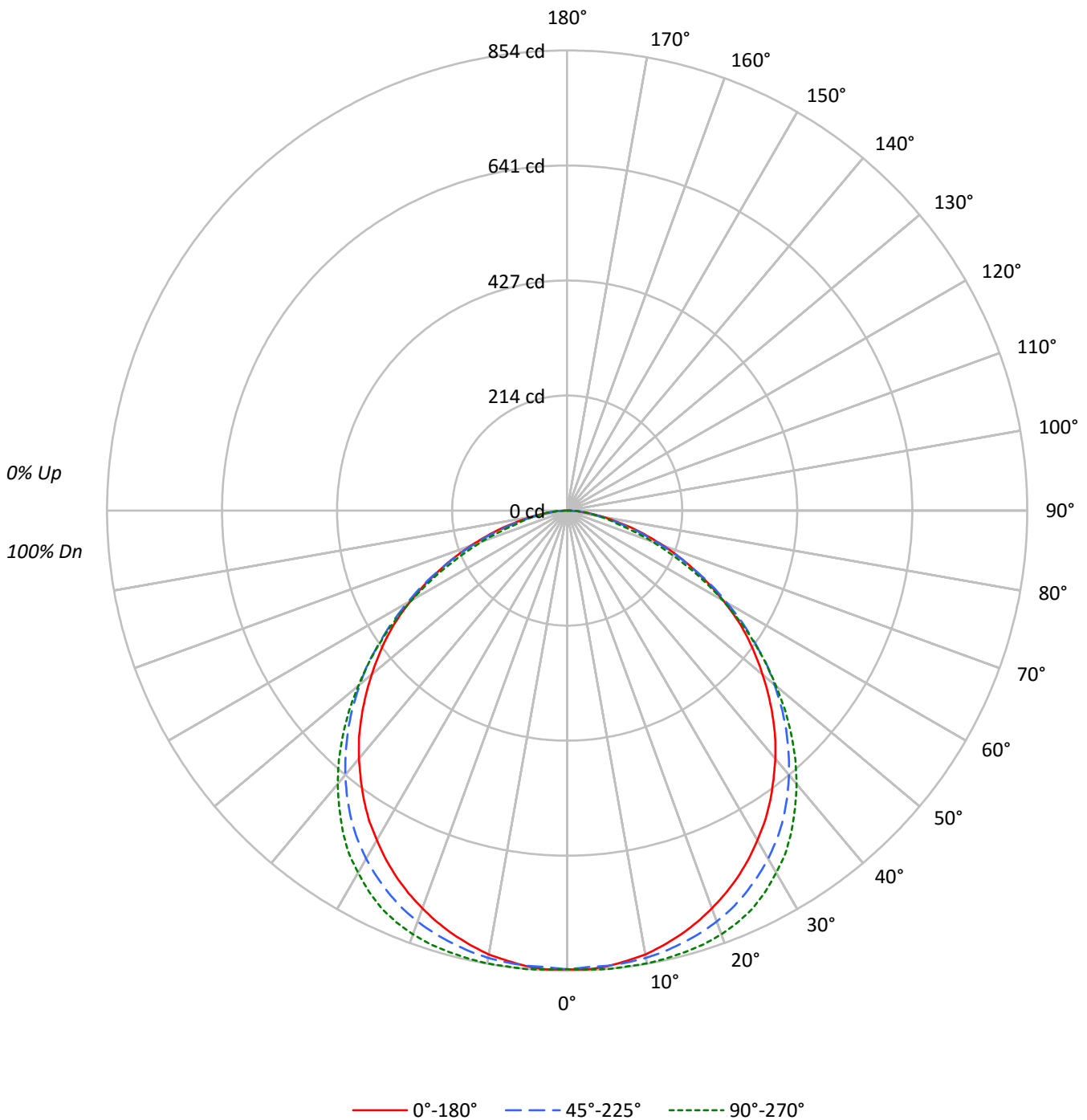
Input Watts (W): 21.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2291	2291	2291
5°	2294	2291	2308
10°	2286	2303	2332
15°	2270	2313	2363
20°	2249	2324	2396
25°	2227	2326	2419
30°	2194	2318	2412
35°	2159	2296	2385
40°	2111	2250	2327
45°	2052	2187	2239
50°	1983	2101	2118
55°	1914	1987	1977
60°	1802	1842	1796
65°	1661	1667	1574
70°	1485	1452	1322
75°	1290	1204	1020
80°	1035	938	938
85°	741	871	902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.0	3.5
10°-20°	235.0	10.1
20°-30°	360.8	15.4
30°-40°	434.5	18.6
40°-50°	439.1	18.8
50°-60°	374.6	16.0
60°-70°	256.4	11.0
70°-80°	123.7	5.3
80°-90°	31.9	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°	676.8	29.0
0°-40°	1111.3	47.6
0°-60°	1925.0	82.4
0°-90°	2337.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2337.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	851	851	851	851	851	
5°	849	849	848	853	854	81
15°	815	821	830	845	848	230
25°	750	762	783	806	815	345
35°	657	672	699	721	726	411
45°	539	554	575	588	588	416
55°	408	415	424	426	421	363
65°	261	264	262	252	247	259
75°	124	124	116	102	98	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°	851.2	851.2	851.2	851.2	851.2
2.5°	852.3	851.2	848.1	852.3	852.3
5°	849.2	849.2	848.1	853.3	854.4
7.5°	842.9	845.0	846.0	852.3	853.3
10°	836.6	838.7	842.9	851.2	853.3
12.5°	826.2	830.4	837.7	849.2	851.2
15°	814.7	821.0	830.4	845.0	848.1
17.5°	801.2	809.5	822.0	838.7	843.9
20°	785.5	794.9	811.6	830.4	836.6
22.5°	768.8	779.3	799.1	821.0	827.3
25°	750.1	761.5	783.4	806.4	814.7
27.5°	729.2	741.7	765.7	789.7	797.0
30°	706.2	719.8	745.9	769.9	776.1
32.5°	683.3	696.9	724.0	746.9	754.2
35°	657.2	671.8	698.9	720.8	726.1
37.5°	629.0	643.6	670.8	692.7	694.8
40°	600.9	615.5	640.5	660.3	662.4
42.5°	571.7	585.2	608.2	624.9	627.0
45°	539.3	553.9	574.8	588.4	588.4
47.5°	507.0	521.6	539.3	548.7	548.7
50°	473.6	487.2	501.8	507.0	505.9
52.5°	440.2	452.7	465.3	466.3	464.2
55°	407.9	415.2	423.5	425.6	421.4
57.5°	372.4	378.7	383.9	380.8	377.6
60°	334.9	341.1	342.2	337.0	333.8
62.5°	298.4	303.6	303.6	295.2	290.0
65°	260.8	263.9	261.8	252.5	247.2
67.5°	225.3	227.4	223.2	213.9	205.5
70°	188.8	189.9	184.6	173.2	168.0
72.5°	155.4	156.5	150.2	136.7	130.4
75°	124.1	124.1	115.8	102.2	98.1
77.5°	92.8	96.0	86.6	79.3	79.3
80°	66.8	69.9	60.5	61.5	60.5
82.5°	43.8	46.9	43.8	43.8	43.8
85°	24.0	26.1	28.2	29.2	29.2
87.5°	7.3	12.5	13.6	14.6	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)