

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: P297693

Luminaire Tested: **D3X-WG-23L83050-LD5-UNV-14-T1-W2A-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-3)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-23L83050-LD5-UNV-14-T1-W2A-5000K  
Description: D3X LED 1x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2378.0 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct

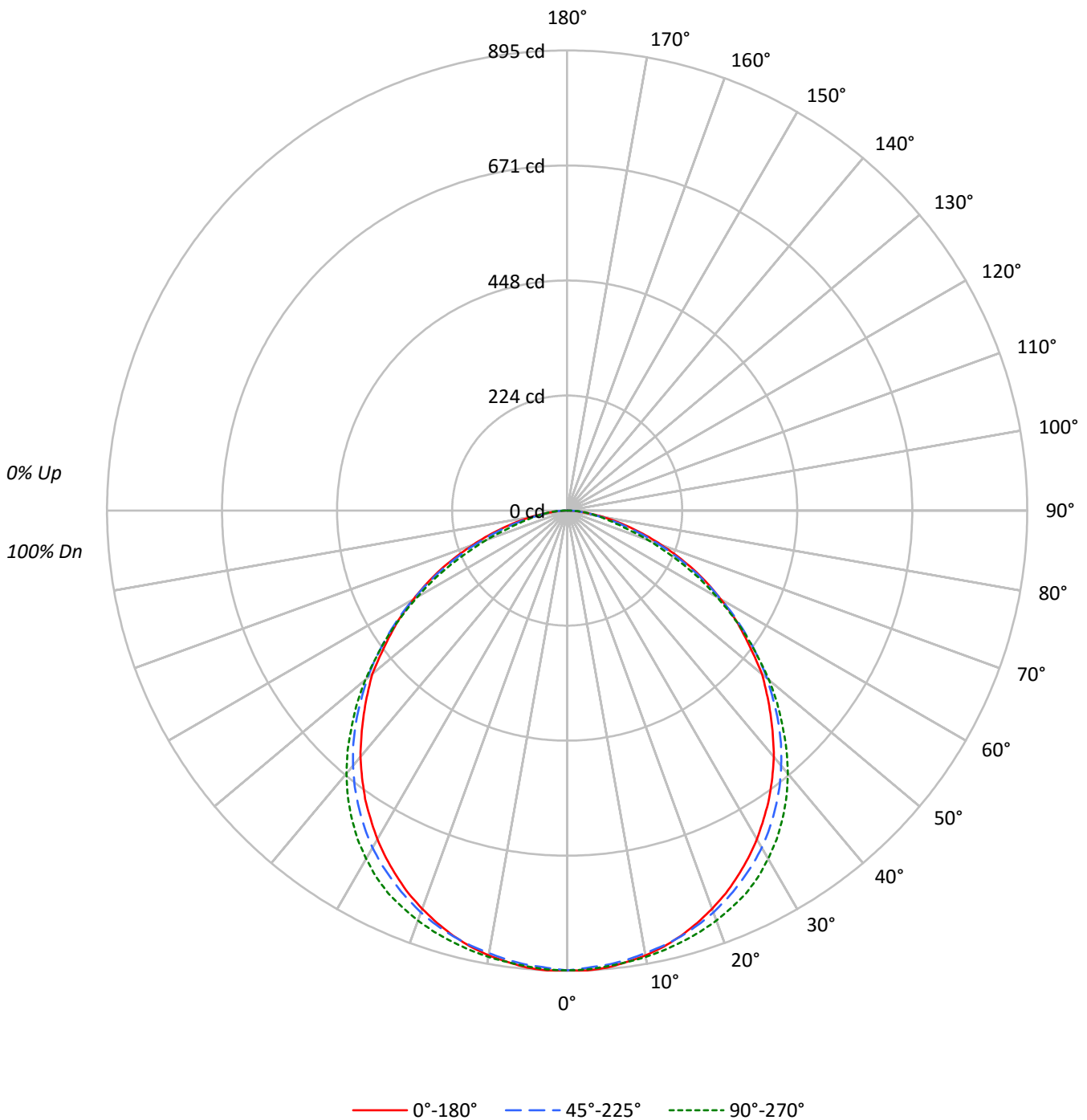
Input Watts (W): 21.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	93		95	92	90		91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77		83	79	75		80	77	74	72
3	91	81	73	67	89	80	72	66	77	70	65		74	69	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	48		59	53	48		58	52	47	45
6	71	58	49	43	69	57	49	43	55	48	43		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	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44	38	33	31
9	58	44	36	31	56	44	36	31	43	35	30		41	35	30		40	35	30	28
10	54	41	33	28	53	40	33	28	39	32	28		38	32	28		38	32	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2407	2407	2407
5°	2410	2396	2404
10°	2400	2388	2409
15°	2385	2388	2417
20°	2360	2381	2430
25°	2330	2368	2441
30°	2293	2353	2429
35°	2250	2320	2400
40°	2197	2275	2346
45°	2128	2210	2254
50°	2070	2123	2146
55°	1966	2006	1996
60°	1860	1860	1808
65°	1727	1686	1591
70°	1531	1464	1322
75°	1327	1205	1017
80°	1088	939	924
85°	722	852	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.6	3.6
10°-20°	242.7	10.2
20°-30°	368.9	15.5
30°-40°	441.7	18.6
40°-50°	445.5	18.7
50°-60°	379.5	16.0
60°-70°	259.5	10.9
70°-80°	124.2	5.2
80°-90°	31.5	1.3
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°	696.2	29.3
0°-40°	1137.8	47.8
0°-60°	1962.8	82.5
0°-90°	2378.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2378.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	894	894	894	894	894	
5°	892	891	887	891	890	85
15°	856	854	857	867	868	241
25°	785	786	798	816	822	362
35°	685	687	706	726	731	428
45°	559	564	581	592	592	432
55°	419	421	428	429	425	375
65°	271	266	265	255	250	267
75°	128	126	116	101	98	136
85°	23	26	28	29	30	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	894.3	894.3	894.3	894.3	894.3
2.5°	895.4	894.3	890.1	894.3	893.3
5°	892.2	891.1	886.9	891.1	890.1
7.5°	885.8	884.8	881.6	885.8	885.8
10°	878.4	876.2	874.1	880.5	881.6
12.5°	868.8	866.7	866.7	874.1	875.2
15°	856.0	853.9	857.1	866.7	867.7
17.5°	841.2	840.1	845.4	857.1	859.2
20°	824.1	823.1	831.6	845.4	848.6
22.5°	806.1	806.1	815.6	831.6	835.8
25°	784.8	785.9	797.6	815.6	822.0
27.5°	762.5	764.6	778.4	798.6	803.9
30°	738.0	741.2	757.1	776.3	781.6
32.5°	711.4	714.6	732.7	752.9	758.2
35°	684.8	687.0	706.1	726.3	730.6
37.5°	655.1	658.2	678.5	696.5	700.8
40°	625.3	628.5	647.6	664.6	667.8
42.5°	592.3	596.6	615.7	629.5	631.7
45°	559.3	563.6	580.6	592.3	592.3
47.5°	526.4	528.5	543.4	555.1	554.0
50°	494.5	493.4	507.2	512.6	512.6
52.5°	455.1	458.3	467.9	471.1	467.9
55°	419.0	421.1	427.5	428.6	425.4
57.5°	383.9	382.8	388.1	385.0	380.7
60°	345.6	345.6	345.6	342.4	336.0
62.5°	308.4	306.3	305.2	297.8	294.6
65°	271.2	265.9	264.8	255.2	249.9
67.5°	231.8	229.7	224.4	214.8	205.2
70°	194.6	192.5	186.1	174.4	168.0
72.5°	160.6	158.4	149.9	136.1	127.6
75°	127.6	125.5	115.9	101.0	97.8
77.5°	96.8	95.7	86.1	78.7	77.6
80°	70.2	69.1	60.6	60.6	59.6
82.5°	44.7	44.7	42.5	43.6	44.7
85°	23.4	25.5	27.6	28.7	29.8
87.5°	7.4	11.7	13.8	14.9	13.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)