

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: P297720

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297720
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-23L82765-LD5-UNV-14-T1-W2A-5500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2333.0 lumens
Efficiency: N/A
Efficacy: 110.0 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

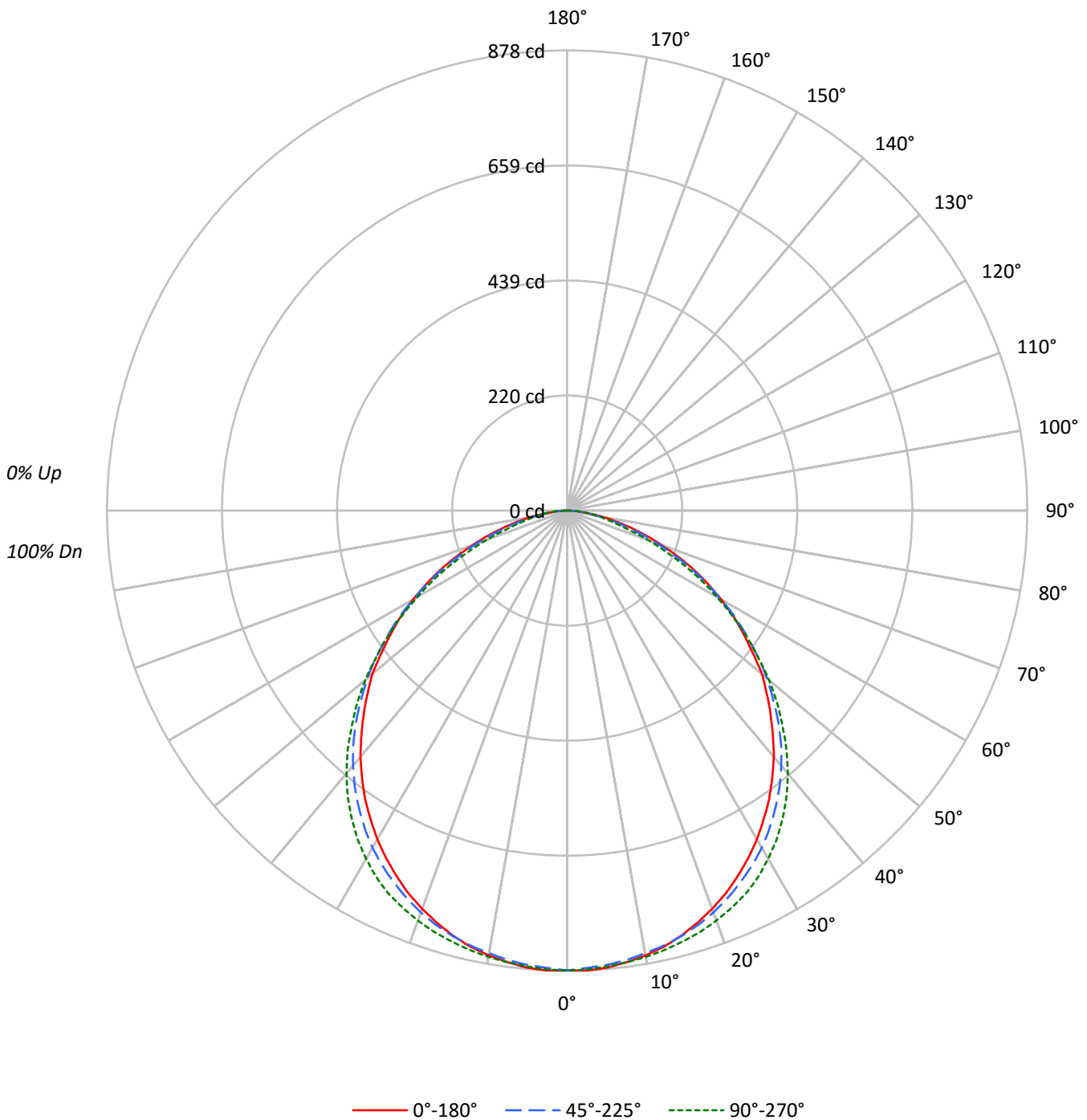
Input Watts (W): 21.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2361	2361	2361
5°	2364	2350	2359
10°	2355	2343	2363
15°	2340	2343	2372
20°	2315	2336	2384
25°	2286	2323	2395
30°	2250	2308	2383
35°	2207	2276	2354
40°	2155	2232	2302
45°	2089	2168	2211
50°	2031	2083	2105
55°	1929	1968	1958
60°	1825	1825	1774
65°	1694	1654	1561
70°	1502	1437	1297
75°	1302	1182	998
80°	1068	922	905
85°	710	837	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.0	3.6
10°-20°	238.1	10.2
20°-30°	361.9	15.5
30°-40°	433.3	18.6
40°-50°	437.1	18.7
50°-60°	372.3	16.0
60°-70°	254.6	10.9
70°-80°	121.9	5.2
80°-90°	30.9	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°	683.0	29.3
0°-40°	1116.3	47.8
0°-60°	1925.7	82.5
0°-90°	2333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	877	877	877	877	877	
5°	875	874	870	874	873	83
15°	840	838	841	850	851	237
25°	770	771	782	800	806	355
35°	672	674	693	713	717	420
45°	549	553	570	581	581	424
55°	411	413	419	420	417	368
65°	266	261	260	250	245	262
75°	125	123	114	99	96	134
85°	23	25	27	28	29	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	877.4	877.4	877.4	877.4	877.4
2.5°	878.4	877.4	873.2	877.4	876.4
5°	875.3	874.3	870.1	874.3	873.2
7.5°	869.1	868.0	864.9	869.1	869.1
10°	861.7	859.7	857.6	863.8	864.9
12.5°	852.4	850.3	850.3	857.6	858.6
15°	839.8	837.8	840.9	850.3	851.3
17.5°	825.2	824.2	829.4	840.9	843.0
20°	808.5	807.5	815.8	829.4	832.5
22.5°	790.8	790.8	800.2	815.8	820.0
25°	769.9	771.0	782.5	800.2	806.5
27.5°	748.0	750.1	763.7	783.5	788.7
30°	724.0	727.2	742.8	761.6	766.8
32.5°	698.0	701.1	718.8	738.6	743.9
35°	671.9	674.0	692.7	712.6	716.7
37.5°	642.7	645.8	665.6	683.3	687.5
40°	613.4	616.6	635.4	652.0	655.2
42.5°	581.1	585.3	604.1	617.6	619.7
45°	548.8	552.9	569.6	581.1	581.1
47.5°	516.4	518.5	533.1	544.6	543.5
50°	485.1	484.1	497.6	502.9	502.9
52.5°	446.5	449.7	459.0	462.2	459.0
55°	411.1	413.1	419.4	420.4	417.3
57.5°	376.6	375.6	380.8	377.7	373.5
60°	339.1	339.1	339.1	335.9	329.7
62.5°	302.6	300.5	299.4	292.1	289.0
65°	266.0	260.8	259.8	250.4	245.2
67.5°	227.4	225.3	220.1	210.7	201.4
70°	190.9	188.8	182.6	171.1	164.8
72.5°	157.5	155.4	147.1	133.5	125.2
75°	125.2	123.1	113.7	99.1	96.0
77.5°	94.9	93.9	84.5	77.2	76.2
80°	68.9	67.8	59.5	59.5	58.4
82.5°	43.8	43.8	41.7	42.8	43.8
85°	23.0	25.0	27.1	28.2	29.2
87.5°	7.3	11.5	13.6	14.6	13.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)