

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: P298400

Luminaire Tested: **D3X-WO-31L93050-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-4)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: D3X-WO-31L93050-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH OPAL LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2673.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.27 / 1.33
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

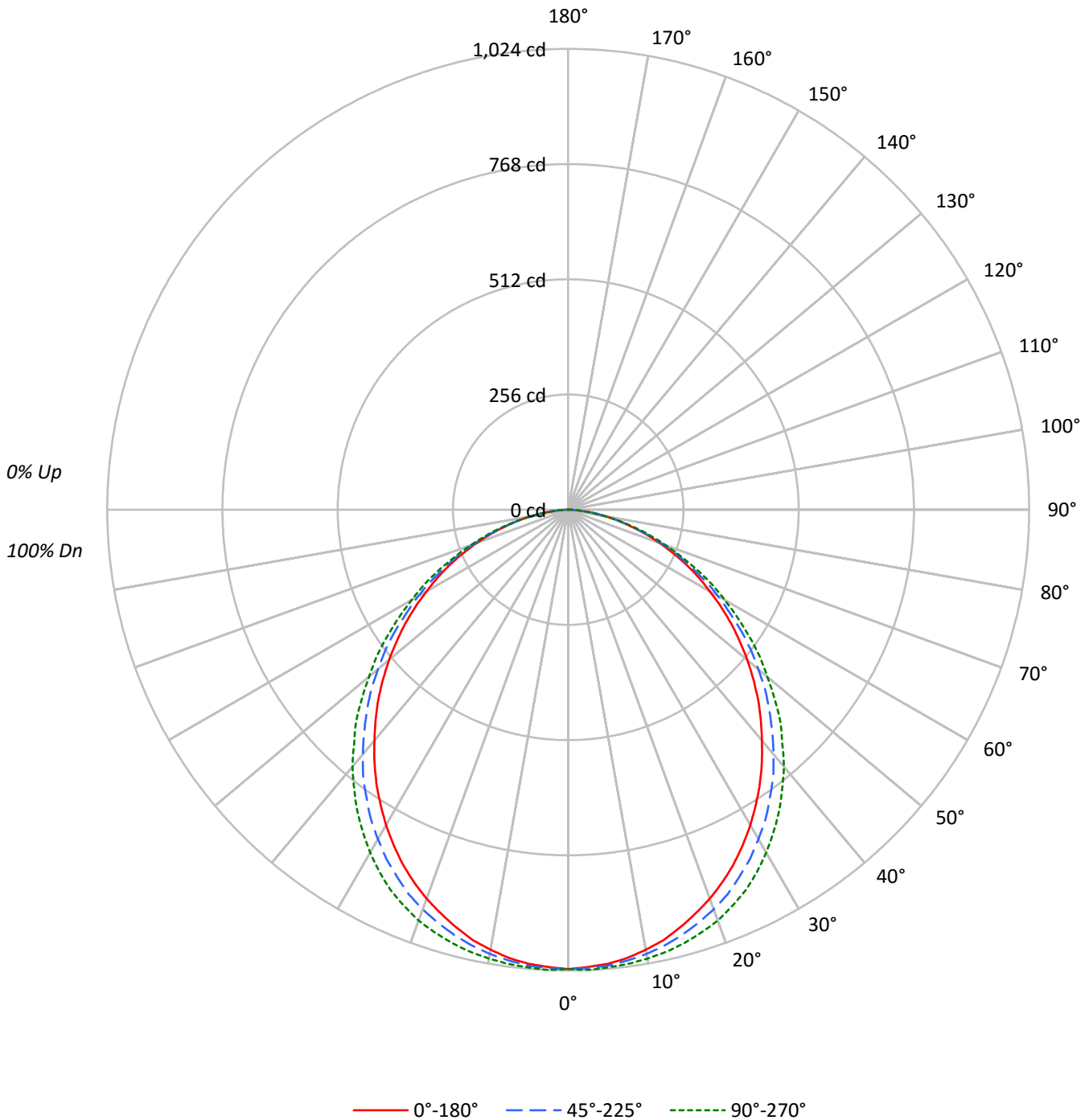
Input Watts (W): 24.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	99	95	98	95	92	94	92	89	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	76	73	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	66	63	60
4	84	72	63	57	81	70	62	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	31	43	35	30	41	35	30	40	34	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°	2747	2747	2747
5°	2736	2747	2757
10°	2713	2739	2767
15°	2677	2725	2777
20°	2633	2706	2782
25°	2581	2671	2770
30°	2514	2626	2733
35°	2439	2566	2685
40°	2351	2492	2618
45°	2269	2406	2538
50°	2173	2307	2418
55°	2073	2198	2304
60°	1955	2070	2163
65°	1847	1915	2008
70°	1696	1749	1811
75°	1509	1550	1592
80°	1299	1278	1278
85°	985	905	821



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.6	3.6
10°-20°	276.0	10.3
20°-30°	414.4	15.5
30°-40°	487.7	18.2
40°-50°	486.5	18.2
50°-60°	417.5	15.6
60°-70°	299.0	11.2
70°-80°	158.4	5.9
80°-90°	37.0	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°	787.0	29.4
0°-40°	1274.7	47.7
0°-60°	2178.7	81.5
0°-90°	2673.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2673.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1021	1021	1021	1021	1021	
5°	1013	1013	1017	1020	1021	96
15°	961	965	978	992	997	271
25°	869	877	900	922	933	400
35°	743	752	781	808	817	464
45°	596	606	632	655	667	459
55°	442	448	468	484	491	395
65°	290	292	301	313	315	287
75°	145	145	149	152	153	156
85°	32	31	29	27	27	39
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1020.8	1020.8	1020.8	1020.8	1020.8
2.5°	1016.8	1016.8	1019.5	1022.1	1023.5
5°	1012.8	1012.8	1016.8	1019.5	1020.8
7.5°	1004.8	1004.8	1010.1	1015.5	1018.1
10°	992.8	995.5	1002.2	1010.1	1012.8
12.5°	979.5	982.2	991.5	1002.2	1006.2
15°	960.9	964.9	978.2	991.5	996.8
17.5°	940.9	946.3	962.2	978.2	984.9
20°	919.6	925.0	944.9	963.6	971.6
22.5°	895.7	902.3	925.0	944.9	952.9
25°	869.1	877.1	899.7	922.3	933.0
27.5°	839.8	849.1	874.4	898.4	907.7
30°	809.2	819.8	845.1	870.4	879.7
32.5°	775.9	785.2	815.8	839.8	849.1
35°	742.6	752.0	781.2	807.9	817.2
37.5°	706.7	718.7	748.0	771.9	781.2
40°	669.4	681.4	709.4	737.3	745.3
42.5°	633.5	644.2	670.8	696.1	704.0
45°	596.2	605.6	632.2	654.8	666.8
47.5°	557.6	567.0	593.6	614.9	621.5
50°	519.0	528.4	551.0	569.6	577.6
52.5°	480.5	489.8	511.1	528.4	536.3
55°	441.9	448.5	468.5	484.4	491.1
57.5°	403.3	408.6	424.6	441.9	445.8
60°	363.3	370.0	384.6	396.6	401.9
62.5°	327.4	330.1	343.4	354.0	360.7
65°	290.1	291.5	300.8	312.8	315.4
67.5°	251.5	252.9	262.2	268.8	271.5
70°	215.6	215.6	222.3	227.6	230.2
72.5°	181.0	179.7	183.7	189.0	191.6
75°	145.1	145.1	149.1	151.7	153.1
77.5°	114.5	111.8	114.5	117.1	117.1
80°	83.8	82.5	82.5	83.8	82.5
82.5°	57.2	55.9	57.2	54.6	53.2
85°	31.9	30.6	29.3	26.6	26.6
87.5°	10.6	9.3	9.3	10.6	10.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)