

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: P297806

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-14-T1-W2A-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297806
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-31L92765-LD5-UNV-14-T1-W2A-4500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2680.0 lumens
Efficiency: N/A
Efficacy: 93.1 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

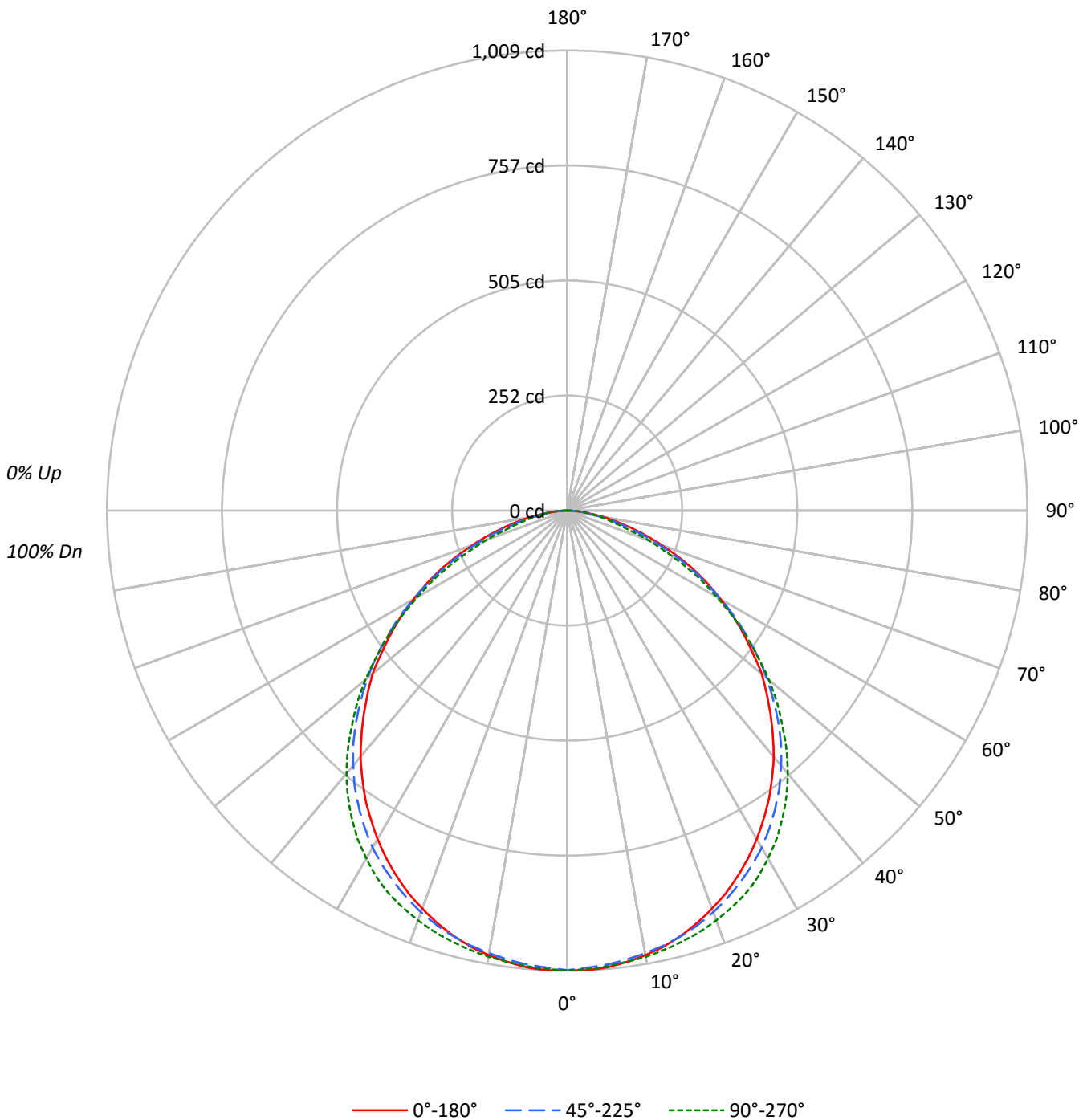
Input Watts (W): 28.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2712	2712	2712
5°	2716	2700	2710
10°	2705	2692	2715
15°	2688	2691	2724
20°	2660	2684	2739
25°	2626	2669	2751
30°	2584	2651	2737
35°	2535	2614	2705
40°	2475	2564	2644
45°	2399	2490	2540
50°	2333	2393	2418
55°	2215	2260	2249
60°	2096	2096	2038
65°	1946	1900	1793
70°	1725	1650	1490
75°	1495	1358	1147
80°	1226	1058	1040
85°	815	963	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	3.6
10°-20°	273.5	10.2
20°-30°	415.7	15.5
30°-40°	497.8	18.6
40°-50°	502.1	18.7
50°-60°	427.7	16.0
60°-70°	292.4	10.9
70°-80°	140.0	5.2
80°-90°	35.5	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°	784.6	29.3
0°-40°	1282.3	47.8
0°-60°	2212.1	82.5
0°-90°	2680.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2680.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1008	1008	1008	1008	1008	
5°	1006	1004	1000	1004	1003	95
15°	965	962	966	977	978	272
25°	884	886	899	919	926	407
35°	772	774	796	818	823	482
45°	630	635	654	668	668	487
55°	472	475	482	483	479	423
65°	306	300	298	288	282	301
75°	144	141	131	114	110	154
85°	26	29	31	32	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1009.1	1007.9	1003.1	1007.9	1006.7
5°	1005.5	1004.3	999.5	1004.3	1003.1
7.5°	998.3	997.1	993.5	998.3	998.3
10°	989.9	987.5	985.1	992.3	993.5
12.5°	979.1	976.7	976.7	985.1	986.3
15°	964.8	962.4	966.0	976.7	977.9
17.5°	948.0	946.8	952.8	966.0	968.3
20°	928.8	927.6	937.2	952.8	956.4
22.5°	908.4	908.4	919.2	937.2	942.0
25°	884.5	885.7	898.8	919.2	926.4
27.5°	859.3	861.7	877.3	900.0	906.0
30°	831.7	835.3	853.3	874.9	880.9
32.5°	801.8	805.4	825.7	848.5	854.5
35°	771.8	774.2	795.8	818.5	823.3
37.5°	738.2	741.8	764.6	785.0	789.8
40°	704.7	708.3	729.9	749.0	752.6
42.5°	667.5	672.3	693.9	709.5	711.9
45°	630.4	635.2	654.4	667.5	667.5
47.5°	593.2	595.6	612.4	625.6	624.4
50°	557.3	556.1	571.7	577.7	577.7
52.5°	512.9	516.5	527.3	530.9	527.3
55°	472.2	474.6	481.8	483.0	479.4
57.5°	432.6	431.4	437.4	433.8	429.0
60°	389.5	389.5	389.5	385.9	378.7
62.5°	347.6	345.2	344.0	335.6	332.0
65°	305.6	299.6	298.4	287.6	281.6
67.5°	261.3	258.9	252.9	242.1	231.3
70°	219.3	216.9	209.7	196.5	189.4
72.5°	181.0	178.6	169.0	153.4	143.8
75°	143.8	141.4	130.6	113.9	110.3
77.5°	109.1	107.9	97.1	88.7	87.5
80°	79.1	77.9	68.3	68.3	67.1
82.5°	50.3	50.3	47.9	49.1	50.3
85°	26.4	28.8	31.2	32.4	33.6
87.5°	8.4	13.2	15.6	16.8	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)