

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: P297631

Luminaire Tested: **D3X-WD-31L93050-LD5-UNV-14-T1-W2A-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297631
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-31L93050-LD5-UNV-14-T1-W2A-4000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2720.0 lumens
Efficiency: N/A
Efficacy: 93.8 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

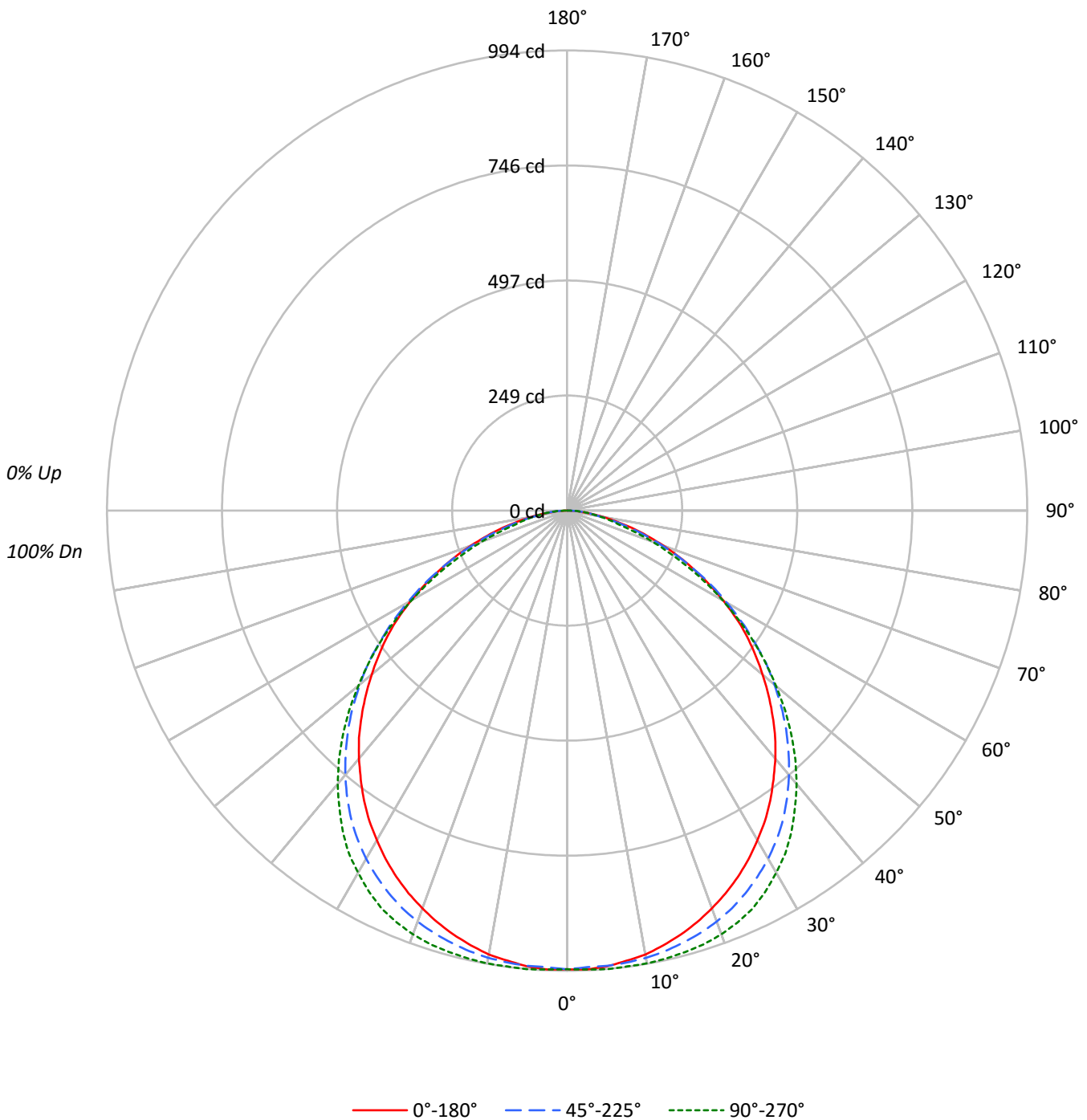
Input Watts (W): 29
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2666	2666	2666
5°	2670	2666	2686
10°	2661	2681	2714
15°	2642	2693	2750
20°	2618	2705	2789
25°	2592	2707	2816
30°	2554	2697	2807
35°	2513	2672	2776
40°	2457	2619	2708
45°	2389	2546	2606
50°	2308	2445	2465
55°	2227	2312	2301
60°	2097	2143	2091
65°	1933	1941	1833
70°	1729	1691	1538
75°	1502	1402	1186
80°	1204	1091	1091
85°	861	1013	1050



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	3.5
10°-20°	273.5	10.1
20°-30°	419.9	15.4
30°-40°	505.8	18.6
40°-50°	511.1	18.8
50°-60°	435.9	16.0
60°-70°	298.4	11.0
70°-80°	144.0	5.3
80°-90°	37.1	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°	787.7	29.0
0°-40°	1293.4	47.6
0°-60°	2240.4	82.4
0°-90°	2720.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	991	991	991	991	991	
5°	988	988	987	993	994	94
15°	948	956	966	984	987	267
25°	873	886	912	938	948	402
35°	765	782	814	839	845	478
45°	628	645	669	685	685	484
55°	475	483	493	495	490	423
65°	304	307	305	294	288	301
75°	144	144	135	119	114	153
85°	28	30	33	34	34	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	990.8	990.8	990.8	990.8	990.8
2.5°	992.0	990.8	987.1	992.0	992.0
5°	988.3	988.3	987.1	993.2	994.4
7.5°	981.0	983.5	984.7	992.0	993.2
10°	973.8	976.2	981.0	990.8	993.2
12.5°	961.6	966.5	975.0	988.3	990.8
15°	948.3	955.5	966.5	983.5	987.1
17.5°	932.5	942.2	956.8	976.2	982.3
20°	914.3	925.2	944.6	966.5	973.8
22.5°	894.8	907.0	930.0	955.5	962.8
25°	873.0	886.3	911.8	938.5	948.3
27.5°	848.7	863.3	891.2	919.1	927.6
30°	822.0	837.8	868.1	896.0	903.3
32.5°	795.3	811.1	842.6	869.3	877.8
35°	764.9	781.9	813.5	839.0	845.1
37.5°	732.1	749.1	780.7	806.2	808.6
40°	699.4	716.4	745.5	768.6	771.0
42.5°	665.4	681.1	707.9	727.3	729.7
45°	627.7	644.7	669.0	684.8	684.8
47.5°	590.1	607.1	627.7	638.6	638.6
50°	551.2	567.0	584.0	590.1	588.9
52.5°	512.4	526.9	541.5	542.7	540.3
55°	474.7	483.2	492.9	495.4	490.5
57.5°	433.5	440.7	446.8	443.2	439.5
60°	389.7	397.0	398.2	392.2	388.5
62.5°	347.2	353.3	353.3	343.6	337.5
65°	303.5	307.2	304.8	293.8	287.8
67.5°	262.3	264.7	259.8	248.9	239.2
70°	219.8	221.0	214.9	201.5	195.5
72.5°	180.9	182.1	174.8	159.1	151.8
75°	144.5	144.5	134.8	119.0	114.1
77.5°	108.1	111.7	100.8	92.3	92.3
80°	77.7	81.3	70.4	71.6	70.4
82.5°	51.0	54.6	51.0	51.0	51.0
85°	27.9	30.4	32.8	34.0	34.0
87.5°	8.5	14.6	15.8	17.0	19.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)