

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: P297592

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-14-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297592
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-31L82765-LD5-UNV-14-T1-W2A-2700K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2719.0 lumens
Efficiency: N/A
Efficacy: 96.1 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

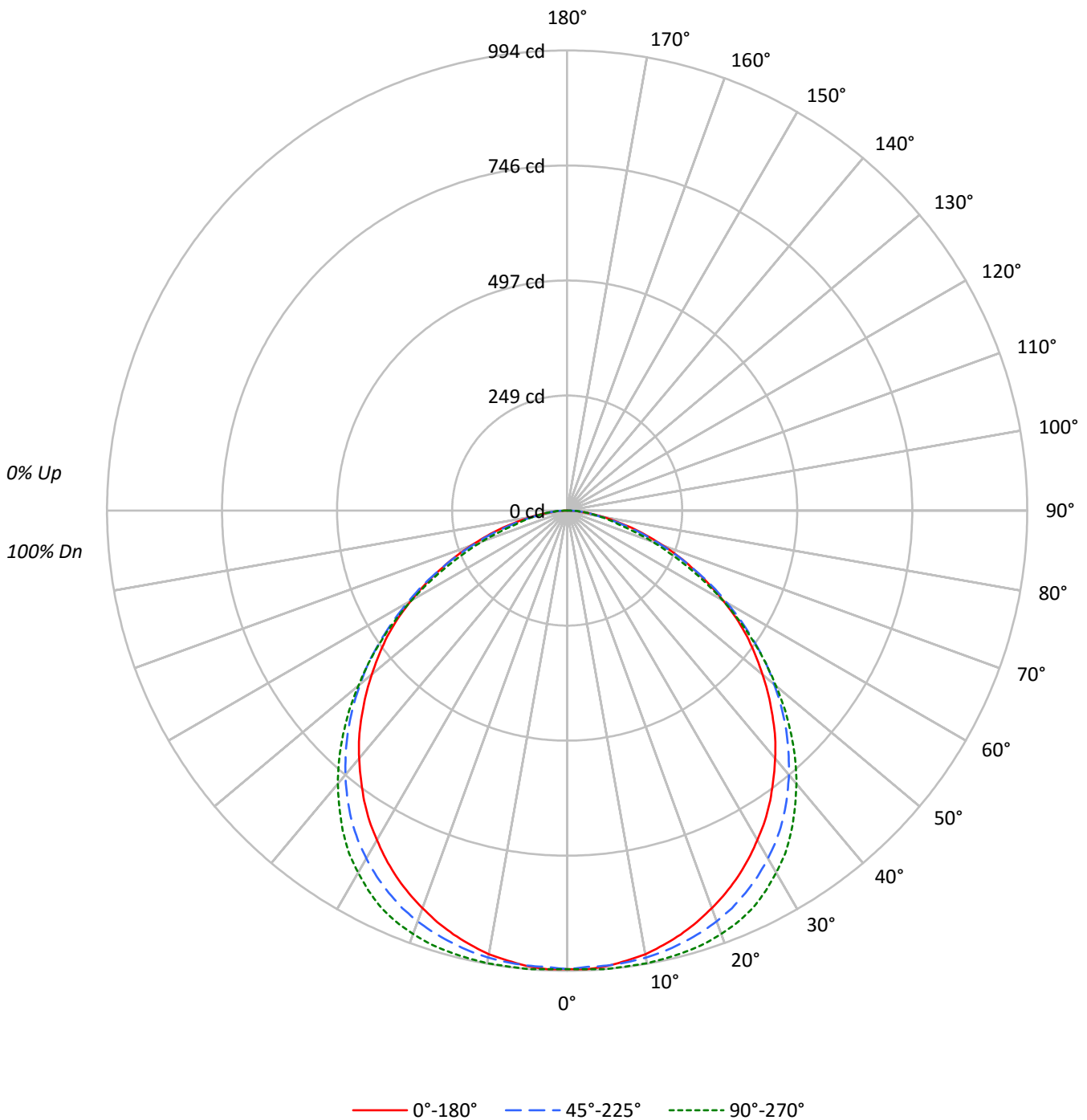
Input Watts (W): 28.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2665	2665	2665
5°	2669	2665	2685
10°	2660	2680	2713
15°	2641	2691	2749
20°	2617	2704	2788
25°	2591	2706	2814
30°	2553	2696	2806
35°	2512	2671	2775
40°	2456	2618	2707
45°	2388	2545	2605
50°	2307	2444	2464
55°	2227	2312	2300
60°	2097	2143	2090
65°	1932	1940	1831
70°	1729	1690	1537
75°	1501	1400	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°	273.4	10.1
20°-30°	419.8	15.4
30°-40°	505.6	18.6
40°-50°	510.9	18.8
50°-60°	435.8	16.0
60°-70°	298.3	11.0
70°-80°	143.9	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°	787.4	29.0
0°-40°	1292.9	47.6
0°-60°	2239.6	82.4
0°-90°	2719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	990	990	990	990	990	
5°	988	988	987	993	994	94
15°	948	955	966	983	987	267
25°	873	886	912	938	948	402
35°	765	782	813	839	845	478
45°	628	644	669	684	684	484
55°	475	483	493	495	490	423
65°	303	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°	990.4	990.4	990.4	990.4	990.4
2.5°	991.6	990.4	986.7	991.6	991.6
5°	988.0	988.0	986.7	992.8	994.0
7.5°	980.7	983.1	984.3	991.6	992.8
10°	973.4	975.8	980.7	990.4	992.8
12.5°	961.3	966.1	974.6	988.0	990.4
15°	947.9	955.2	966.1	983.1	986.7
17.5°	932.1	941.8	956.4	975.8	981.9
20°	913.9	924.8	944.3	966.1	973.4
22.5°	894.5	906.6	929.7	955.2	962.5
25°	872.7	886.0	911.5	938.2	947.9
27.5°	848.4	862.9	890.9	918.8	927.3
30°	821.7	837.5	867.8	895.7	903.0
32.5°	795.0	810.8	842.3	869.0	877.5
35°	764.6	781.6	813.2	838.7	844.7
37.5°	731.9	748.9	780.4	805.9	808.3
40°	699.1	716.1	745.2	768.3	770.7
42.5°	665.1	680.9	707.6	727.0	729.4
45°	627.5	644.5	668.8	684.5	684.5
47.5°	589.9	606.9	627.5	638.4	638.4
50°	551.0	566.8	583.8	589.9	588.6
52.5°	512.2	526.7	541.3	542.5	540.1
55°	474.6	483.1	492.8	495.2	490.3
57.5°	433.3	440.6	446.6	443.0	439.4
60°	389.6	396.9	398.1	392.0	388.4
62.5°	347.1	353.2	353.2	343.5	337.4
65°	303.4	307.1	304.6	293.7	287.6
67.5°	262.2	264.6	259.7	248.8	239.1
70°	219.7	220.9	214.8	201.5	195.4
72.5°	180.8	182.1	174.8	159.0	151.7
75°	144.4	144.4	134.7	118.9	114.1
77.5°	108.0	111.7	100.7	92.2	92.2
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	30.3	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)