

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: P298019

Luminaire Tested: **D3X-WD-31L82765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-5)
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-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2842.0 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.32 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

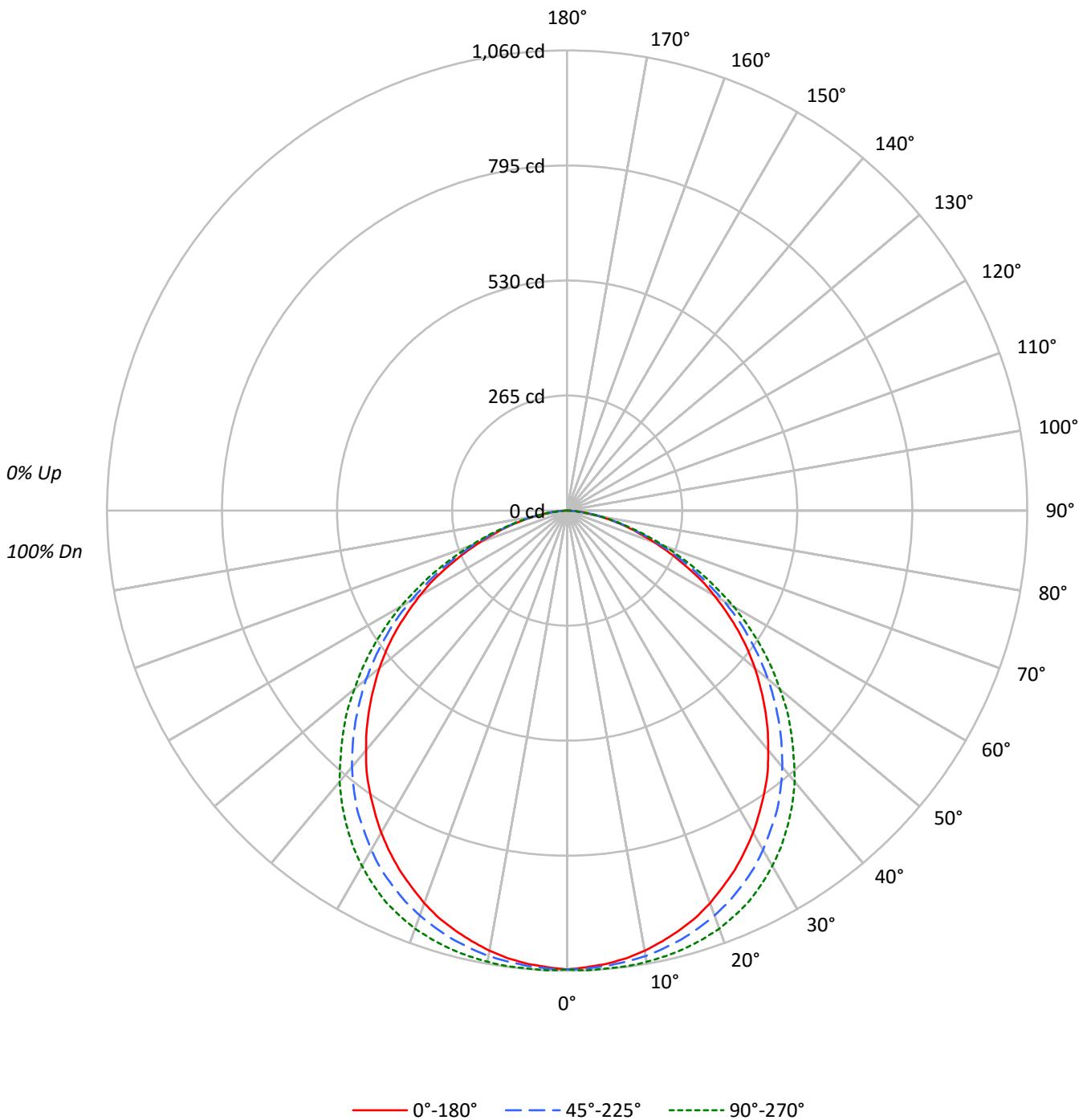
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	81	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	77	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	57	68	61	56	66	60	55	64	59	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	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	28	38	32	27	37	32	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2845	2845	2845
5°	2831	2843	2860
10°	2813	2847	2884
15°	2787	2847	2911
20°	2755	2843	2935
25°	2712	2830	2948
30°	2662	2805	2938
35°	2603	2769	2910
40°	2531	2708	2864
45°	2451	2625	2783
50°	2363	2530	2677
55°	2253	2404	2555
60°	2108	2239	2387
65°	1909	2026	2153
70°	1685	1769	1865
75°	1447	1480	1543
80°	1162	1185	1209
85°	849	756	756



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.5
10°-20°	288.6	10.2
20°-30°	438.9	15.4
30°-40°	525.1	18.5
40°-50°	530.9	18.7
50°-60°	456.9	16.1
60°-70°	315.4	11.1
70°-80°	152.9	5.4
80°-90°	33.2	1.2
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°	827.6	29.1
0°-40°	1352.8	47.6
0°-60°	2340.5	82.4
0°-90°	2842.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2842.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1057	1057	1057	1057	1057	
5°	1048	1049	1052	1057	1059	99
15°	1000	1007	1022	1037	1045	282
25°	913	924	953	982	993	420
35°	792	806	843	874	886	495
45°	644	656	690	719	731	497
55°	480	488	512	535	545	428
65°	300	304	318	332	338	298
75°	139	136	142	147	148	148
85°	28	28	24	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1057.1	1057.1	1057.1	1057.1	1057.1
2.5°	1052.5	1052.5	1055.5	1058.6	1060.1
5°	1047.9	1049.4	1052.5	1057.1	1058.6
7.5°	1040.2	1041.8	1047.9	1055.5	1058.6
10°	1029.5	1032.6	1041.8	1050.9	1055.5
12.5°	1015.8	1021.9	1032.6	1044.8	1050.9
15°	1000.5	1006.6	1021.9	1037.2	1044.8
17.5°	983.6	989.7	1008.1	1028.0	1035.6
20°	962.2	971.4	992.8	1015.8	1024.9
22.5°	937.7	950.0	974.5	998.9	1009.6
25°	913.3	924.0	953.0	982.1	992.8
27.5°	885.7	898.0	930.1	959.2	969.9
30°	856.7	868.9	902.6	934.7	945.4
32.5°	824.5	839.8	872.0	905.6	917.8
35°	792.4	806.2	842.9	873.5	885.7
37.5°	758.8	771.0	807.7	839.8	852.1
40°	720.5	734.3	771.0	803.1	815.4
42.5°	683.8	697.6	731.2	761.8	772.5
45°	644.0	656.3	689.9	719.0	731.2
47.5°	604.3	618.0	647.1	676.1	688.4
50°	564.5	575.2	604.3	631.8	639.4
52.5°	523.2	532.4	558.4	582.8	593.5
55°	480.3	488.0	512.5	535.4	544.6
57.5°	434.4	443.6	466.6	483.4	494.1
60°	391.6	396.2	416.1	432.9	443.6
62.5°	348.8	350.3	365.6	382.4	388.6
65°	299.8	304.4	318.2	332.0	338.1
67.5°	255.5	260.1	270.8	281.5	286.1
70°	214.2	214.2	224.9	232.5	237.1
72.5°	172.9	174.4	182.0	186.6	191.2
75°	139.2	136.1	142.3	146.9	148.4
77.5°	104.0	102.5	107.1	108.6	111.7
80°	75.0	75.0	76.5	78.0	78.0
82.5°	49.0	49.0	50.5	47.4	45.9
85°	27.5	27.5	24.5	24.5	24.5
87.5°	9.2	9.2	9.2	10.7	9.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)