

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: P297733

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-14-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297733
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-31L82765-LD5-UNV-14-T1-W2A-3000K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2792.0 lumens
Efficiency: N/A
Efficacy: 99.4 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

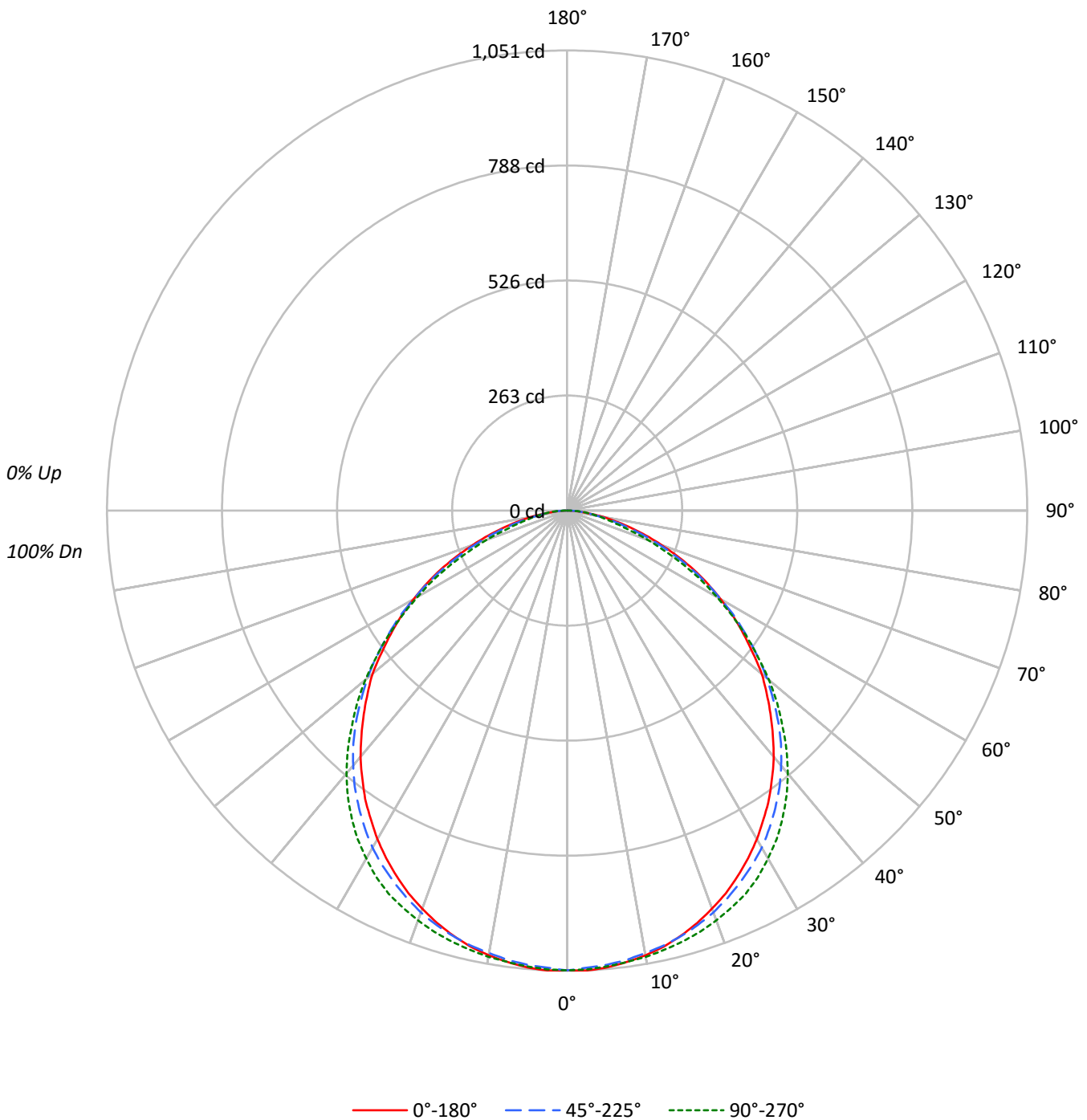
Input Watts (W): 28.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2826	2826	2826
5°	2830	2813	2823
10°	2818	2804	2828
15°	2800	2803	2838
20°	2771	2796	2853
25°	2736	2780	2866
30°	2692	2762	2852
35°	2642	2723	2818
40°	2579	2671	2754
45°	2499	2594	2646
50°	2431	2493	2519
55°	2308	2355	2343
60°	2184	2184	2123
65°	2027	1980	1868
70°	1798	1719	1552
75°	1557	1415	1195
80°	1277	1103	1083
85°	849	1003	1081



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.6
10°-20°	285.0	10.2
20°-30°	433.1	15.5
30°-40°	518.6	18.6
40°-50°	523.1	18.7
50°-60°	445.5	16.0
60°-70°	304.6	10.9
70°-80°	145.9	5.2
80°-90°	36.9	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°	817.4	29.3
0°-40°	1335.9	47.8
0°-60°	2304.5	82.5
0°-90°	2792.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2792.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1048	1046	1041	1046	1045	99
15°	1005	1003	1006	1018	1019	283
25°	921	923	936	958	965	424
35°	804	807	829	853	858	502
45°	657	662	682	695	695	507
55°	492	494	502	503	499	440
65°	318	312	311	300	293	314
75°	150	147	136	119	115	160
85°	28	30	32	34	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1050.0	1050.0	1050.0	1050.0	1050.0
2.5°	1051.3	1050.0	1045.0	1050.0	1048.8
5°	1047.5	1046.3	1041.3	1046.3	1045.0
7.5°	1040.0	1038.8	1035.0	1040.0	1040.0
10°	1031.3	1028.8	1026.3	1033.8	1035.0
12.5°	1020.1	1017.6	1017.6	1026.3	1027.5
15°	1005.1	1002.6	1006.3	1017.6	1018.8
17.5°	987.6	986.3	992.6	1006.3	1008.8
20°	967.6	966.4	976.4	992.6	996.3
22.5°	946.4	946.4	957.6	976.4	981.3
25°	921.4	922.7	936.4	957.6	965.1
27.5°	895.2	897.7	913.9	937.7	943.9
30°	866.5	870.2	889.0	911.4	917.7
32.5°	835.3	839.0	860.2	884.0	890.2
35°	804.1	806.6	829.0	852.8	857.7
37.5°	769.1	772.8	796.6	817.8	822.8
40°	734.1	737.9	760.4	780.3	784.1
42.5°	695.4	700.4	722.9	739.1	741.6
45°	656.7	661.7	681.7	695.4	695.4
47.5°	618.0	620.5	638.0	651.7	650.5
50°	580.6	579.3	595.6	601.8	601.8
52.5°	534.4	538.1	549.4	553.1	549.4
55°	491.9	494.4	501.9	503.2	499.4
57.5°	450.7	449.5	455.7	452.0	447.0
60°	405.8	405.8	405.8	402.0	394.5
62.5°	362.1	359.6	358.3	349.6	345.8
65°	318.4	312.1	310.9	299.6	293.4
67.5°	272.2	269.7	263.4	252.2	241.0
70°	228.5	226.0	218.5	204.8	197.3
72.5°	188.5	186.0	176.0	159.8	149.8
75°	149.8	147.3	136.1	118.6	114.9
77.5°	113.6	112.4	101.1	92.4	91.1
80°	82.4	81.2	71.2	71.2	69.9
82.5°	52.4	52.4	49.9	51.2	52.4
85°	27.5	30.0	32.5	33.7	35.0
87.5°	8.7	13.7	16.2	17.5	16.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)