

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: P297810

Luminaire Tested: **D3X-WG-31L92765-LD5-UNV-14-T1-W2A-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297810
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-6500K
Description: D3X LED 1x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (168) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2807.0 lumens
Efficiency: N/A
Efficacy: 94.8 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

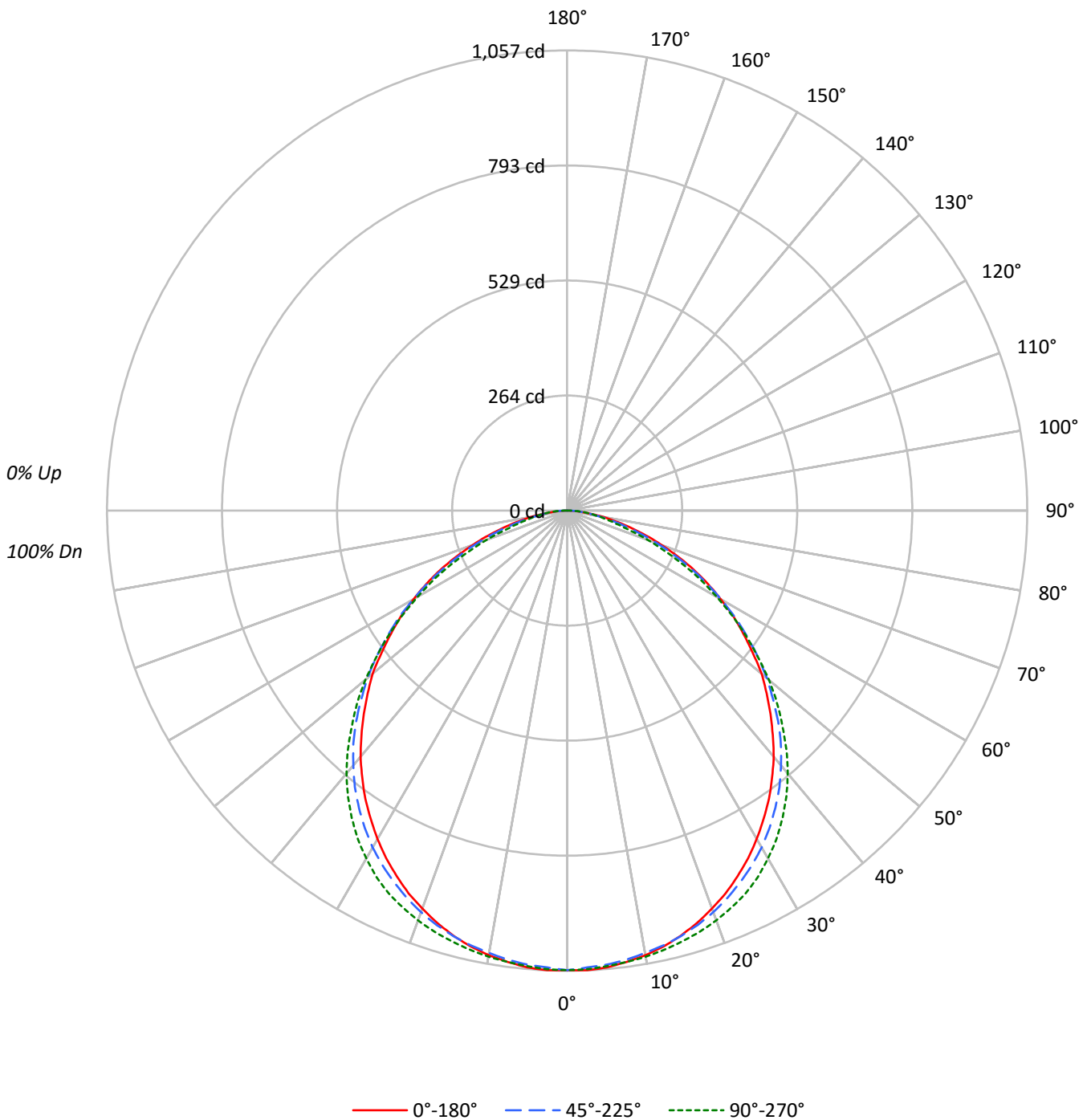
Input Watts (W): 29.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2841	2841	2841
5°	2845	2828	2838
10°	2833	2819	2843
15°	2815	2819	2854
20°	2786	2811	2869
25°	2751	2795	2881
30°	2707	2777	2867
35°	2656	2738	2833
40°	2593	2685	2769
45°	2513	2608	2661
50°	2444	2507	2533
55°	2320	2367	2356
60°	2196	2196	2135
65°	2038	1990	1878
70°	1807	1729	1560
75°	1566	1422	1201
80°	1283	1108	1089
85°	852	1007	1084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.6
10°-20°	286.5	10.2
20°-30°	435.4	15.5
30°-40°	521.3	18.6
40°-50°	525.9	18.7
50°-60°	447.9	16.0
60°-70°	306.3	10.9
70°-80°	146.7	5.2
80°-90°	37.1	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°	821.8	29.3
0°-40°	1343.1	47.8
0°-60°	2316.9	82.5
0°-90°	2807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1053	1052	1047	1052	1051	100
15°	1010	1008	1012	1023	1024	285
25°	926	928	941	963	970	427
35°	808	811	834	857	862	505
45°	660	665	685	699	699	510
55°	495	497	505	506	502	443
65°	320	314	313	301	295	316
75°	151	148	137	119	116	161
85°	28	30	33	34	35	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1055.7	1055.7	1055.7	1055.7	1055.7
2.5°	1056.9	1055.7	1050.6	1055.7	1054.4
5°	1053.1	1051.9	1046.9	1051.9	1050.6
7.5°	1045.6	1044.4	1040.6	1045.6	1045.6
10°	1036.8	1034.3	1031.8	1039.3	1040.6
12.5°	1025.5	1023.0	1023.0	1031.8	1033.1
15°	1010.5	1008.0	1011.7	1023.0	1024.3
17.5°	992.9	991.6	997.9	1011.7	1014.2
20°	972.8	971.6	981.6	997.9	1001.7
22.5°	951.5	951.5	962.8	981.6	986.6
25°	926.4	927.6	941.4	962.8	970.3
27.5°	900.0	902.5	918.8	942.7	949.0
30°	871.1	874.9	893.7	916.3	922.6
32.5°	839.8	843.5	864.9	888.7	895.0
35°	808.4	810.9	833.5	857.3	862.4
37.5°	773.2	777.0	800.8	822.2	827.2
40°	738.1	741.8	764.4	784.5	788.3
42.5°	699.2	704.2	726.8	743.1	745.6
45°	660.3	665.3	685.4	699.2	699.2
47.5°	621.3	623.9	641.4	655.2	654.0
50°	583.7	582.4	598.8	605.0	605.0
52.5°	537.2	541.0	552.3	556.1	552.3
55°	494.6	497.1	504.6	505.9	502.1
57.5°	453.1	451.9	458.2	454.4	449.4
60°	408.0	408.0	408.0	404.2	396.7
62.5°	364.0	361.5	360.3	351.5	347.7
65°	320.1	313.8	312.6	301.3	295.0
67.5°	273.6	271.1	264.9	253.6	242.3
70°	229.7	227.2	219.7	205.9	198.3
72.5°	189.5	187.0	177.0	160.7	150.6
75°	150.6	148.1	136.8	119.2	115.5
77.5°	114.2	113.0	101.7	92.9	91.6
80°	82.8	81.6	71.5	71.5	70.3
82.5°	52.7	52.7	50.2	51.5	52.7
85°	27.6	30.1	32.6	33.9	35.1
87.5°	8.8	13.8	16.3	17.6	16.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)