

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: P298185

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-6)
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-22-T1-W2A-2700K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2708.0 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.3 / 1.35
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

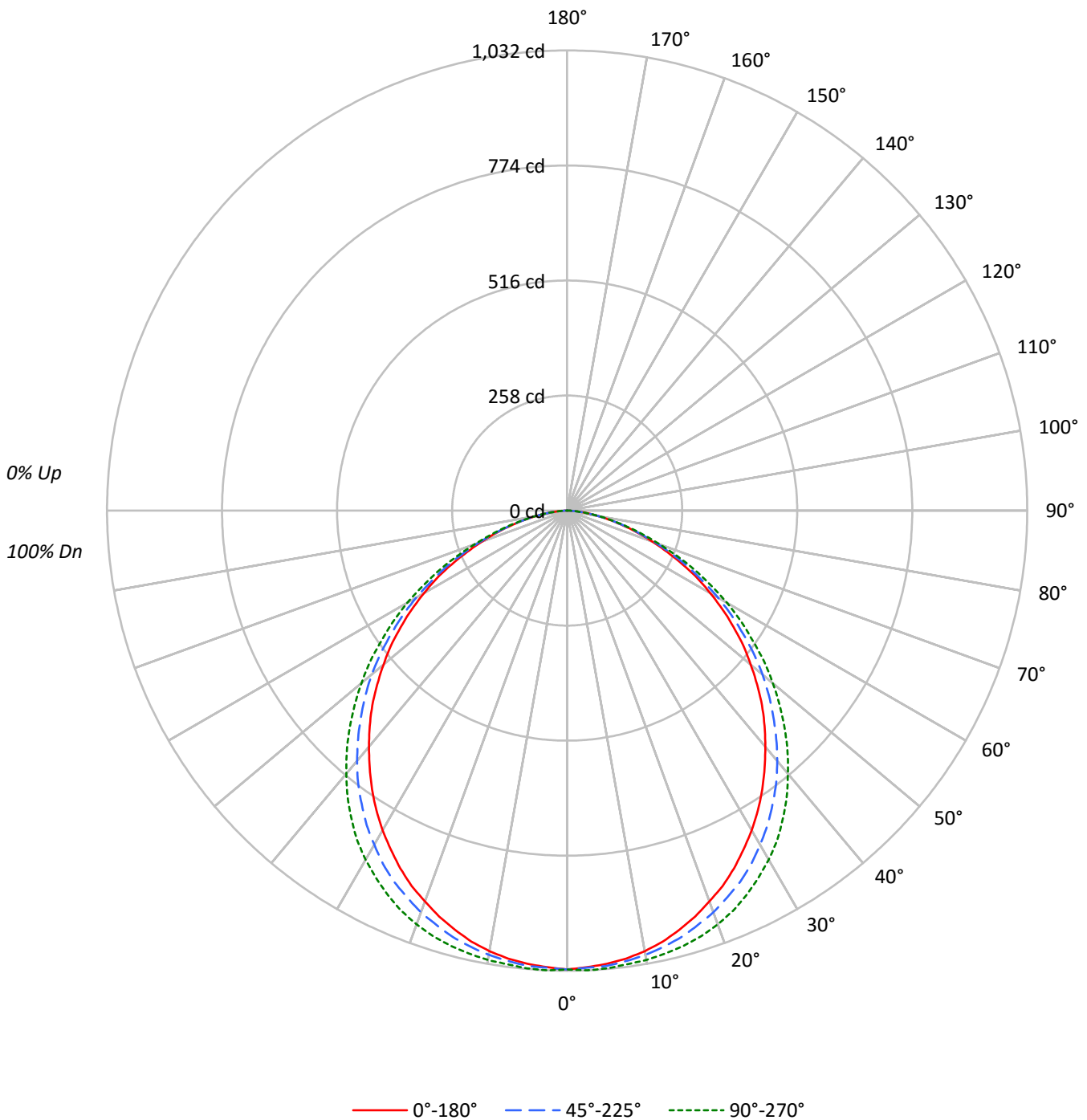
Input Watts (W): 24.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	86	80	97	90	84	79	87	82	77	83	79	76	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	82	71	63	57	68	61	56	66	60	55	64	59	54	52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40
7	66	53	44	38	64	52	44	38	51	43	38	49	43	38	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	39	34	44	38	34	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	40	33	28	40	33	28	39	32	28	38	32	28	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2769	2769	2769
5°	2757	2768	2784
10°	2741	2765	2796
15°	2711	2759	2815
20°	2671	2745	2828
25°	2629	2727	2825
30°	2573	2689	2809
35°	2507	2639	2772
40°	2428	2575	2706
45°	2352	2489	2625
50°	2250	2395	2521
55°	2137	2259	2381
60°	1996	2104	2228
65°	1821	1904	2013
70°	1595	1662	1730
75°	1360	1390	1449
80°	1091	1114	1136
85°	800	753	710



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.4	3.6
10°-20°	279.6	10.3
20°-30°	422.7	15.6
30°-40°	502.0	18.5
40°-50°	504.0	18.6
50°-60°	430.5	15.9
60°-70°	296.6	11.0
70°-80°	143.8	5.3
80°-90°	31.5	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°	799.6	29.5
0°-40°	1301.7	48.1
0°-60°	2236.1	82.6
0°-90°	2708.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2708.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1020	1020	1025	1028	1030	97
15°	973	977	990	1003	1010	274
25°	885	893	918	943	952	407
35°	763	775	803	834	844	477
45°	618	627	654	681	690	476
55°	456	463	482	502	507	407
65°	286	286	299	312	316	283
75°	131	128	134	136	139	141
85°	26	26	24	23	23	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1029.1	1029.1	1029.1	1029.1	1029.1
2.5°	1024.8	1024.8	1026.2	1030.5	1032.0
5°	1020.5	1020.5	1024.8	1027.7	1030.5
7.5°	1013.3	1014.7	1019.0	1024.8	1026.2
10°	1003.2	1004.7	1011.9	1019.0	1023.4
12.5°	990.3	993.2	1001.8	1013.3	1017.6
15°	973.0	977.4	990.3	1003.2	1010.4
17.5°	954.4	960.1	974.5	993.2	1000.4
20°	932.8	940.0	958.7	978.8	987.4
22.5°	911.2	917.0	938.6	961.5	971.6
25°	885.4	892.6	918.4	942.9	951.5
27.5°	856.6	866.7	894.0	919.9	928.5
30°	827.9	836.5	865.3	894.0	904.1
32.5°	796.3	804.9	836.5	865.3	876.7
35°	763.2	774.7	803.4	833.6	843.7
37.5°	727.3	740.2	770.4	796.3	809.2
40°	691.3	702.8	733.0	760.3	770.4
42.5°	655.4	665.5	694.2	723.0	731.6
45°	618.0	626.7	654.0	681.3	689.9
47.5°	577.8	587.9	613.7	636.7	646.8
50°	537.5	547.6	572.0	593.6	602.2
52.5°	498.7	504.5	527.5	547.6	557.7
55°	455.6	462.8	481.5	501.6	507.4
57.5°	413.9	418.3	436.9	454.2	462.8
60°	370.8	373.7	390.9	403.9	413.9
62.5°	330.6	330.6	343.5	357.9	363.6
65°	286.0	286.0	299.0	311.9	316.2
67.5°	242.9	245.8	254.4	264.5	267.3
70°	202.7	202.7	211.3	218.5	219.9
72.5°	166.7	165.3	169.6	175.3	178.2
75°	130.8	127.9	133.7	136.5	139.4
77.5°	99.2	97.7	100.6	103.5	103.5
80°	70.4	69.0	71.9	71.9	73.3
82.5°	46.0	47.4	47.4	46.0	44.6
85°	25.9	25.9	24.4	23.0	23.0
87.5°	8.6	8.6	8.6	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)