

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: P298103

Luminaire Tested: **D3X-WD-31L92765-LD5-UNV-22-T1-W2A-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298103
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-31L92765-LD5-UNV-22-T1-W2A-3500K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH ROUND PERF LENS
Light Source: (252) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2490.0 lumens
Efficiency: N/A
Efficacy: 101.2 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

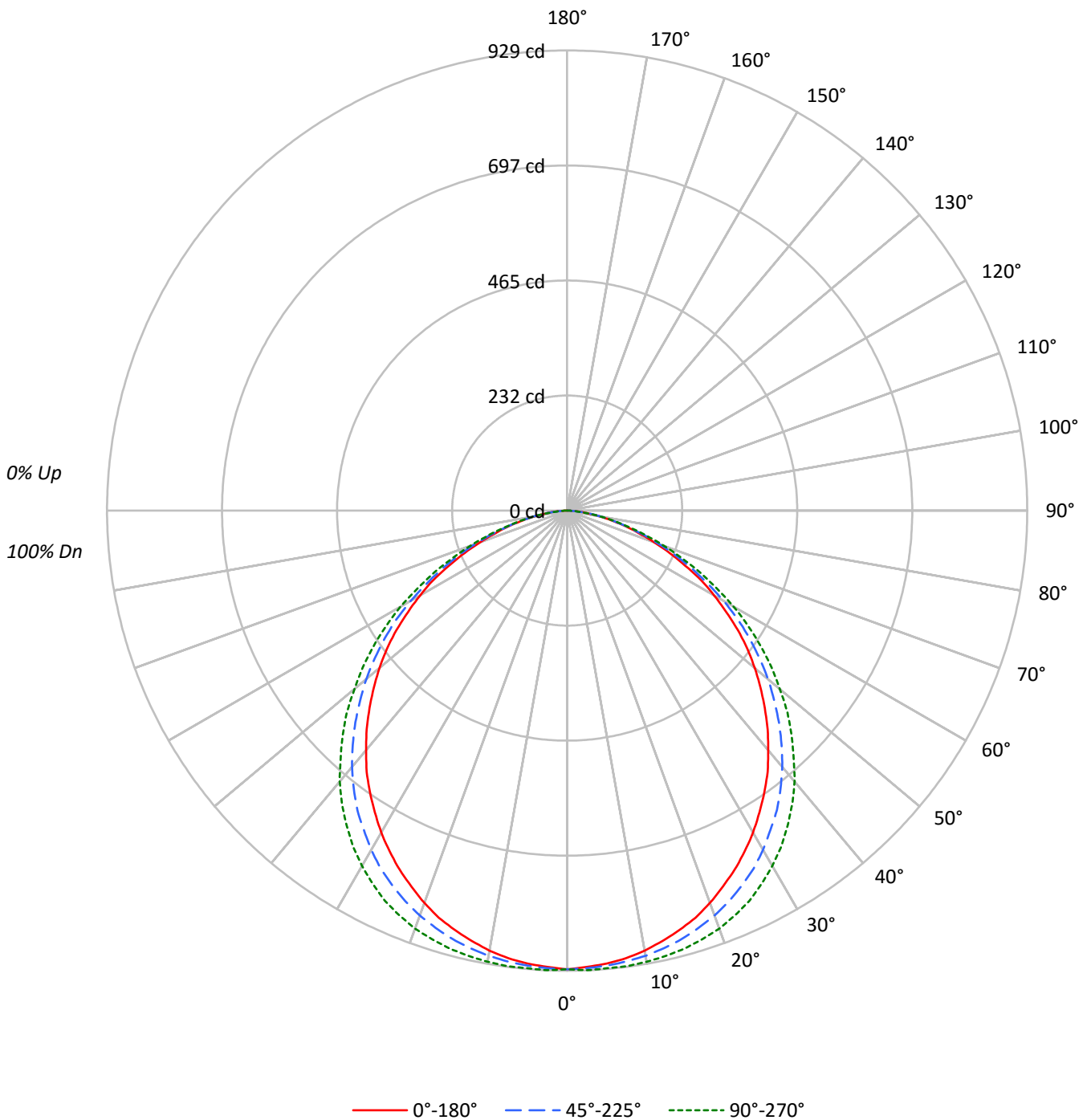
Input Watts (W): 24.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2492	2492	2492
5°	2480	2491	2505
10°	2465	2494	2527
15°	2442	2494	2550
20°	2414	2491	2572
25°	2376	2479	2583
30°	2332	2457	2574
35°	2281	2426	2549
40°	2218	2373	2510
45°	2148	2300	2438
50°	2071	2216	2345
55°	1974	2107	2238
60°	1847	1962	2092
65°	1673	1775	1886
70°	1476	1550	1634
75°	1268	1295	1352
80°	1018	1038	1060
85°	744	661	661



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	3.5
10°-20°	252.8	10.2
20°-30°	384.5	15.4
30°-40°	460.1	18.5
40°-50°	465.1	18.7
50°-60°	400.3	16.1
60°-70°	276.3	11.1
70°-80°	134.0	5.4
80°-90°	29.0	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°	725.1	29.1
0°-40°	1185.2	47.6
0°-60°	2050.6	82.4
0°-90°	2490.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2490.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	926	926	926	926	926	
5°	918	919	922	926	928	87
15°	876	882	895	909	915	247
25°	800	810	835	860	870	368
35°	694	706	738	765	776	434
45°	564	575	604	630	641	435
55°	421	428	449	469	477	375
65°	263	267	279	291	296	261
75°	122	119	125	129	130	129
85°	24	24	21	21	21	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	926.1	926.1	926.1	926.1	926.1
2.5°	922.1	922.1	924.8	927.5	928.8
5°	918.1	919.4	922.1	926.1	927.5
7.5°	911.4	912.7	918.1	924.8	927.5
10°	902.0	904.7	912.7	920.8	924.8
12.5°	889.9	895.3	904.7	915.4	920.8
15°	876.5	881.9	895.3	908.7	915.4
17.5°	861.8	867.2	883.2	900.7	907.4
20°	843.0	851.1	869.8	889.9	898.0
22.5°	821.6	832.3	853.8	875.2	884.6
25°	800.1	809.5	835.0	860.5	869.8
27.5°	776.0	786.7	814.9	840.4	849.7
30°	750.6	761.3	790.8	818.9	828.3
32.5°	722.4	735.8	764.0	793.4	804.2
35°	694.3	706.3	738.5	765.3	776.0
37.5°	664.8	675.5	707.7	735.8	746.5
40°	631.3	643.3	675.5	703.6	714.4
42.5°	599.1	611.2	640.7	667.5	676.8
45°	564.3	575.0	604.5	629.9	640.7
47.5°	529.4	541.5	566.9	592.4	603.1
50°	494.6	503.9	529.4	553.5	560.2
52.5°	458.4	466.4	489.2	510.6	520.0
55°	420.8	427.5	449.0	469.1	477.1
57.5°	380.6	388.7	408.8	423.5	432.9
60°	343.1	347.1	364.6	379.3	388.7
62.5°	305.6	306.9	320.3	335.1	340.4
65°	262.7	266.7	278.8	290.8	296.2
67.5°	223.8	227.8	237.2	246.6	250.6
70°	187.6	187.6	197.0	203.7	207.7
72.5°	151.5	152.8	159.5	163.5	167.5
75°	122.0	119.3	124.6	128.7	130.0
77.5°	91.1	89.8	93.8	95.2	97.8
80°	65.7	65.7	67.0	68.4	68.4
82.5°	42.9	42.9	44.2	41.5	40.2
85°	24.1	24.1	21.4	21.4	21.4
87.5°	8.0	8.0	8.0	9.4	8.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)