

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: P298186

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-22-T1-W2A-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P298186
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-3000K
Description: D3X LED 2x2 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (252) 80 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2786.0 lumens
Efficiency: N/A
Efficacy: 114.7 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

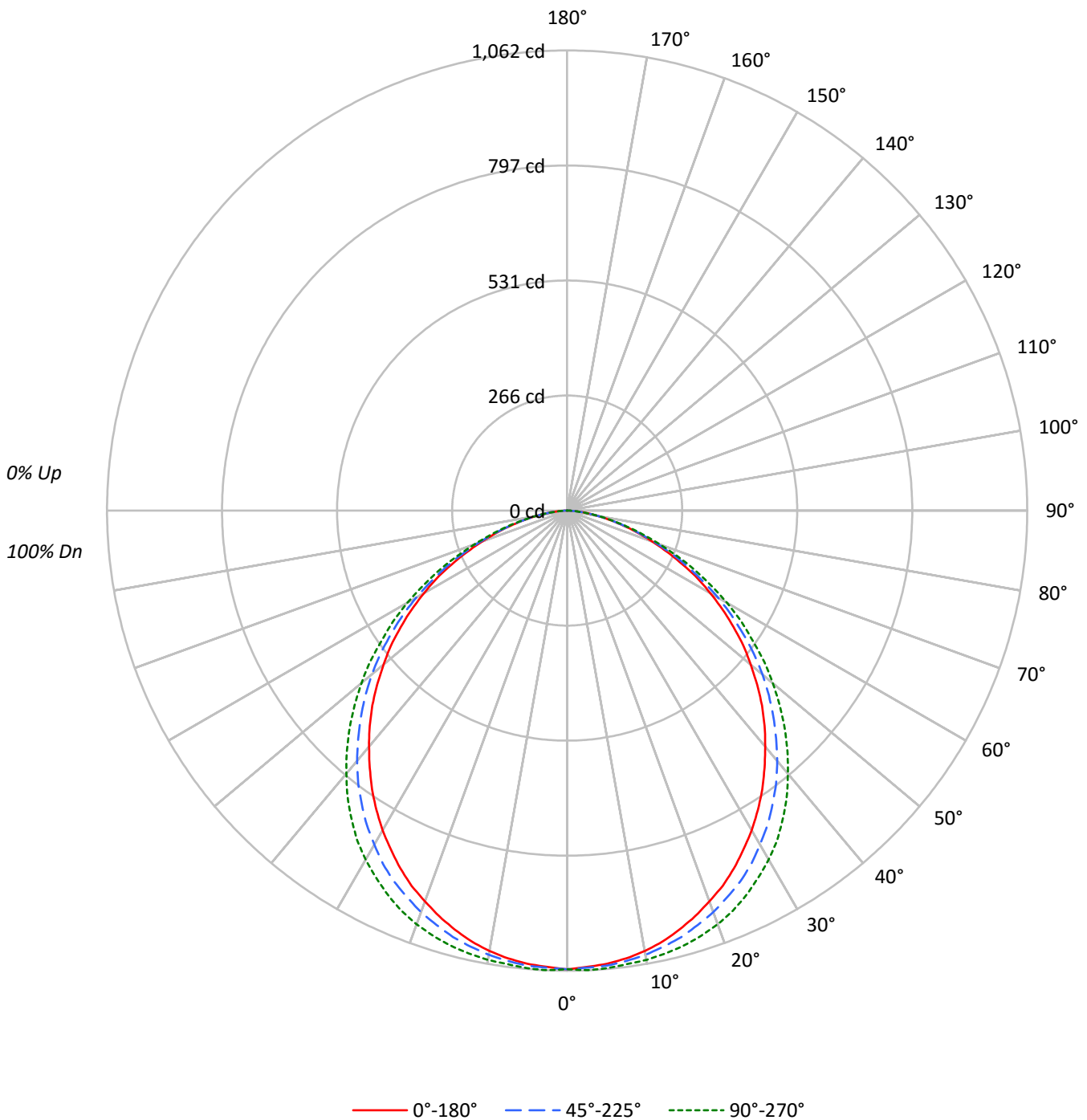
Input Watts (W): 24.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2849	2849	2849
5°	2836	2848	2864
10°	2820	2845	2877
15°	2789	2838	2896
20°	2748	2824	2909
25°	2705	2806	2907
30°	2646	2766	2890
35°	2579	2715	2851
40°	2499	2649	2784
45°	2420	2560	2701
50°	2315	2464	2594
55°	2199	2324	2449
60°	2053	2165	2292
65°	1874	1959	2071
70°	1640	1710	1780
75°	1399	1430	1491
80°	1124	1145	1168
85°	821	775	732



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.2	3.6
10°-20°	287.6	10.3
20°-30°	434.8	15.6
30°-40°	516.5	18.5
40°-50°	518.5	18.6
50°-60°	442.9	15.9
60°-70°	305.2	11.0
70°-80°	148.0	5.3
80°-90°	32.4	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°	822.7	29.5
0°-40°	1339.1	48.1
0°-60°	2300.5	82.6
0°-90°	2786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1059	1059	1059	1059	1059	
5°	1050	1050	1054	1057	1060	100
15°	1001	1006	1019	1032	1040	282
25°	911	918	945	970	979	419
35°	785	797	827	858	868	490
45°	636	645	673	701	710	489
55°	469	476	495	516	522	419
65°	294	294	308	321	325	292
75°	135	132	138	140	143	145
85°	27	27	25	24	24	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1058.7	1058.7	1058.7	1058.7	1058.7
2.5°	1054.3	1054.3	1055.8	1060.2	1061.7
5°	1049.9	1049.9	1054.3	1057.3	1060.2
7.5°	1042.5	1044.0	1048.4	1054.3	1055.8
10°	1032.1	1033.6	1041.0	1048.4	1052.8
12.5°	1018.8	1021.8	1030.6	1042.5	1046.9
15°	1001.1	1005.5	1018.8	1032.1	1039.5
17.5°	981.9	987.8	1002.6	1021.8	1029.2
20°	959.7	967.1	986.3	1007.0	1015.9
22.5°	937.5	943.4	965.6	989.2	999.6
25°	910.9	918.3	944.9	970.0	978.9
27.5°	881.3	891.7	919.7	946.4	955.2
30°	851.7	860.6	890.2	919.7	930.1
32.5°	819.2	828.1	860.6	890.2	902.0
35°	785.2	797.0	826.6	857.6	868.0
37.5°	748.2	761.5	792.6	819.2	832.5
40°	711.3	723.1	754.1	782.2	792.6
42.5°	674.3	684.6	714.2	743.8	752.7
45°	635.8	644.7	672.8	700.9	709.8
47.5°	594.4	604.8	631.4	655.1	665.4
50°	553.0	563.4	588.5	610.7	619.6
52.5°	513.1	519.0	542.7	563.4	573.7
55°	468.7	476.1	495.4	516.1	522.0
57.5°	425.9	430.3	449.5	467.3	476.1
60°	381.5	384.5	402.2	415.5	425.9
62.5°	340.1	340.1	353.4	368.2	374.1
65°	294.3	294.3	307.6	320.9	325.3
67.5°	249.9	252.9	261.7	272.1	275.0
70°	208.5	208.5	217.4	224.8	226.2
72.5°	171.5	170.0	174.5	180.4	183.4
75°	134.6	131.6	137.5	140.5	143.4
77.5°	102.0	100.6	103.5	106.5	106.5
80°	72.5	71.0	73.9	73.9	75.4
82.5°	47.3	48.8	48.8	47.3	45.8
85°	26.6	26.6	25.1	23.7	23.7
87.5°	8.9	8.9	8.9	10.4	10.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)