

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: P297045

Luminaire Tested: **D3X-WG-31L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P297045
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)
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-24-T1-W2A-5500K
Description: D3X LED 2x4 TUNABLE WHITE TROFFER
WITH RECTANGULAR PERF LENS
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3031.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

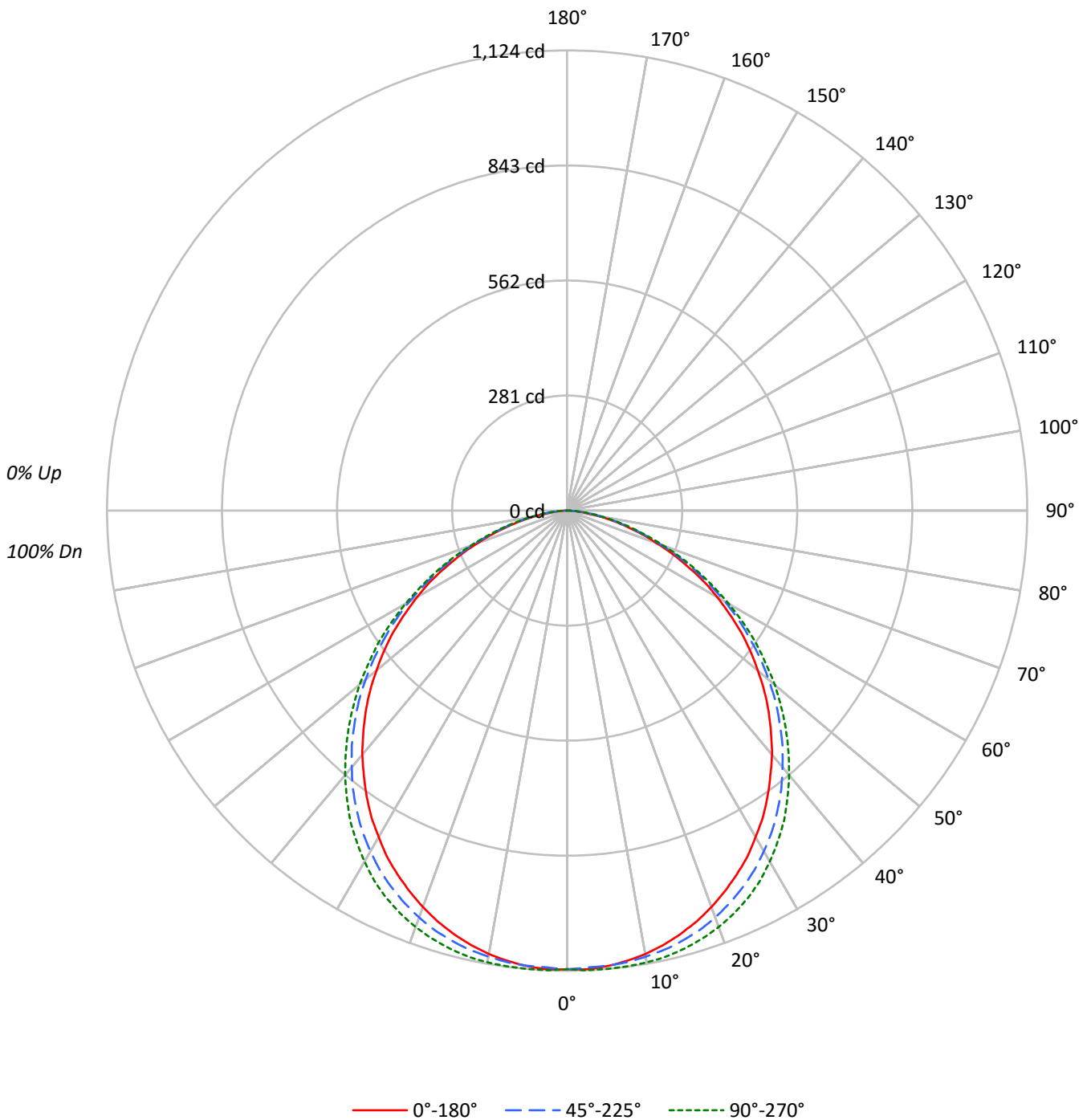
Input Watts (W): 21.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	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	47	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	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1508	1508	1508
5°	1509	1508	1518
10°	1503	1512	1531
15°	1491	1515	1543
20°	1475	1514	1550
25°	1455	1507	1551
30°	1430	1493	1538
35°	1402	1471	1518
40°	1367	1438	1482
45°	1324	1397	1438
50°	1273	1346	1386
55°	1217	1278	1319
60°	1139	1198	1227
65°	1040	1096	1124
70°	914	961	987
75°	773	813	841
80°	614	673	690
85°	418	503	486



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.5	3.5
10°-20°	307.4	10.1
20°-30°	467.1	15.4
30°-40°	557.4	18.4
40°-50°	562.9	18.6
50°-60°	485.0	16.0
60°-70°	338.1	11.2
70°-80°	167.5	5.5
80°-90°	39.1	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°	881.0	29.1
0°-40°	1438.3	47.5
0°-60°	2486.3	82.0
0°-90°	3031.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3031.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1117	1116	1116	1122	1124	106
15°	1071	1076	1088	1102	1108	302
25°	980	994	1015	1036	1044	452
35°	853	868	896	916	924	533
45°	696	711	734	751	756	536
55°	519	530	545	558	562	463
65°	327	333	344	347	353	325
75°	149	151	156	160	162	160
85°	27	33	33	30	32	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.5	1120.5	1120.5	1120.5	1120.5
2.5°	1121.6	1119.4	1117.2	1121.6	1123.8
5°	1117.2	1116.2	1116.2	1121.6	1123.8
7.5°	1109.6	1109.6	1112.9	1120.5	1122.7
10°	1099.9	1102.0	1106.4	1117.2	1120.5
12.5°	1086.8	1091.2	1098.8	1111.8	1116.2
15°	1070.6	1076.0	1087.9	1102.0	1107.5
17.5°	1052.1	1059.7	1074.9	1091.2	1096.6
20°	1030.4	1040.2	1057.5	1076.0	1082.5
22.5°	1006.5	1018.4	1038.0	1057.5	1065.1
25°	980.4	993.5	1015.2	1035.8	1044.5
27.5°	953.3	966.3	990.2	1010.8	1019.5
30°	920.7	935.9	960.9	982.6	990.2
32.5°	889.2	904.4	930.5	950.0	957.6
35°	853.4	867.5	895.7	916.4	924.0
37.5°	815.4	831.7	858.8	877.3	883.8
40°	778.5	792.6	818.7	837.1	843.6
42.5°	737.2	752.4	778.5	794.8	800.2
45°	696.0	711.2	734.0	751.3	755.7
47.5°	653.6	667.7	690.5	704.7	709.0
50°	608.0	621.1	642.8	656.9	662.3
52.5°	564.6	576.5	595.0	606.9	610.2
55°	519.0	529.8	545.0	558.1	562.4
57.5°	470.1	482.1	496.2	507.0	510.3
60°	423.4	433.2	445.2	454.9	456.0
62.5°	377.8	382.2	393.0	401.7	402.8
65°	326.8	333.3	344.2	347.4	352.9
67.5°	280.1	284.5	293.2	297.5	301.8
70°	232.4	235.6	244.3	249.7	250.8
72.5°	191.1	192.2	198.7	203.0	204.1
75°	148.7	150.9	156.3	159.6	161.8
77.5°	112.9	115.1	119.4	121.6	121.6
80°	79.3	82.5	86.9	87.9	89.0
82.5°	51.0	55.4	58.6	59.7	57.5
85°	27.1	32.6	32.6	30.4	31.5
87.5°	9.8	11.9	13.0	14.1	14.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)