

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: 14066

Luminaire Tested: **S2-WB-2T8 DL100**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 14066  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: S2-WB-2T8 DL100  
Description: CORELITE FLUORESCENT INDOOR LUMINAIRE  
WITH WHITE INTERIOR, 24 CELL WHITE LOUVER AND WHITE TOP COVER  
Light Source: TWO 32 WATT PHILIPS LAMPS  
  
F32T8/TL841. LUMEN RATING = 3000 LMS.  
  
Ballast/Driver: ONE MOTOROLA M2-IN-T8-GP-D-120 BALLAST OPERATING AT 120 VAC AND 58  
WATTS

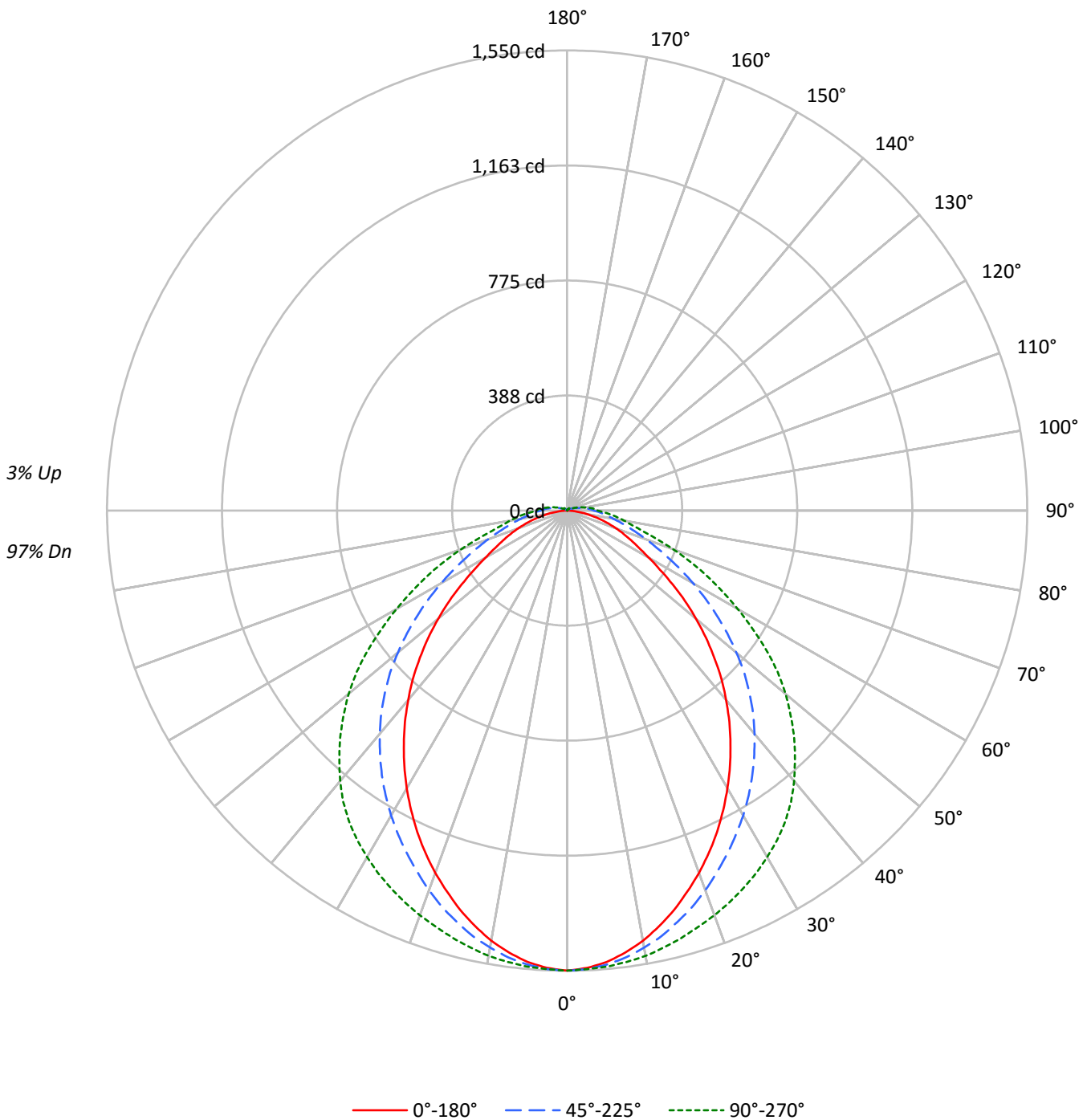
**Summary**

Lumens per Lamp: 3000 (2 lamps)  
Luminaire Lumens: 3880.0 lumens  
Efficiency: 64.7%  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.29 / 1.28  
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.25')  
CIE Type: Direct  
  
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	77	77	77	77	75	75	75	75	71	71	71	67	67	67	64	64	64	63
1	70	67	64	62	68	65	63	60	62	60	58	59	58	56	57	55	54	53
2	64	59	54	51	62	57	53	50	55	51	49	52	50	47	50	48	46	44
3	58	52	47	43	57	51	46	42	49	44	41	46	43	40	45	42	39	38
4	54	46	41	36	52	45	40	36	43	39	35	42	38	35	40	37	34	33
5	50	41	36	32	48	41	35	31	39	34	31	38	34	30	36	33	30	28
6	46	37	32	28	45	37	31	28	35	31	27	34	30	27	33	29	26	25
7	43	34	29	25	41	33	28	25	32	28	24	31	27	24	30	26	24	22
8	40	31	26	22	39	31	26	22	30	25	22	29	25	22	28	24	21	20
9	37	29	23	20	36	28	23	20	27	23	20	27	22	19	26	22	19	18
10	35	27	22	18	34	26	21	18	25	21	18	25	21	18	24	20	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8339	8339	8339
5°	8203	8015	7982
10°	7954	7633	7650
15°	7630	7223	7320
20°	7272	6809	7028
25°	6892	6389	6760
30°	6478	5993	6499
35°	6037	5591	6228
40°	5561	5172	5886
45°	5024	4727	5487
50°	4418	4228	5042
55°	3736	3679	4481
60°	3083	3122	3831
65°	2677	2579	3186
70°	2353	2132	2514
75°	1991	1764	1886
80°	1526	1504	1572
85°	854	1348	1349



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	145.3	3.7	2.4
10°-20°	405.0	10.4	6.8
20°-30°	592.3	15.3	9.9
30°-40°	687.9	17.7	11.5
40°-50°	674.7	17.4	11.2
50°-60°	554.1	14.3	9.2
60°-70°	373.2	9.6	6.2
70°-80°	213.8	5.5	3.6
80°-90°	115.9	3.0	1.9
90°-100°	61.9	1.6	1.0
100°-110°	29.5	0.8	0.5
110°-120°	12.5	0.3	0.2
120°-130°	7.2	0.2	0.1
130°-140°	4.2	0.1	0.1
140°-150°	1.8	0.0	0.0
150°-160°	0.4	0.0	0.0
160°-170°	0.2	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-30°	1142.6	29.4	19.0
0°-40°	1830.6	47.2	30.5
0°-60°	3059.3	78.8	51.0
0°-90°	3762.3	97.0	62.7
90°-120°	103.9	2.7	1.7
90°-150°	117.1	3.0	2.0
90°-180°	118.0	3.0	2.0
0°-180°	3880.0	100.0	64.7

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1550	1550	1550	1550	1550	
5°	1527	1532	1535	1539	1542	144
15°	1392	1406	1435	1470	1490	391
25°	1194	1214	1275	1355	1404	549
35°	959	993	1088	1205	1280	599
45°	701	754	868	990	1081	540
55°	434	501	615	738	818	389
65°	238	282	375	460	518	238
75°	118	135	211	256	260	125
85°	24	63	121	153	147	29
90°	0	37	89	112	102	2
95°	0	20	71	93	85	0
105°	0	4	33	50	41	1
115°	0	2	17	21	16	0
125°	0	2	10	14	12	0
135°	1	0	6	10	11	1
145°	1	1	2	4	7	1
155°	0	0	1	0	1	0
165°	1	1	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1549.5	1549.5	1549.5	1549.5	1549.5
2.5°	1542.0	1544.7	1546.0	1546.0	1546.0
5°	1526.7	1531.6	1535.1	1539.4	1542.0
7.5°	1501.3	1509.1	1518.3	1527.6	1533.3
10°	1471.4	1480.2	1494.7	1512.7	1523.2
12.5°	1433.7	1446.0	1468.4	1492.9	1507.4
15°	1392.4	1405.6	1434.6	1469.7	1489.8
17.5°	1345.9	1361.3	1400.3	1444.3	1470.0
20°	1298.5	1315.6	1360.9	1415.3	1450.4
22.5°	1247.7	1266.0	1318.3	1386.3	1428.5
25°	1194.5	1214.3	1275.4	1355.2	1403.8
27.5°	1138.0	1160.9	1231.4	1321.4	1377.6
30°	1080.0	1106.8	1185.8	1284.5	1347.6
32.5°	1020.8	1051.1	1138.0	1246.7	1316.0
35°	959.0	992.8	1087.9	1204.7	1279.7
37.5°	897.1	933.0	1035.2	1158.2	1238.4
40°	833.0	873.3	981.8	1107.7	1189.2
42.5°	768.9	814.0	926.8	1052.0	1135.8
45°	701.3	753.5	868.1	990.0	1081.3
47.5°	634.1	690.3	808.8	929.9	1021.2
50°	567.0	626.7	744.3	867.2	961.0
52.5°	499.9	564.9	679.7	803.6	893.5
55°	433.7	501.3	614.8	738.1	818.5
57.5°	370.4	442.1	553.0	665.9	740.4
60°	317.4	385.3	489.8	591.2	664.1
62.5°	273.5	333.1	431.0	524.0	588.9
65°	238.4	282.3	375.2	460.4	518.4
67.5°	206.0	236.1	326.9	403.4	446.9
70°	175.2	194.6	283.6	346.4	379.2
72.5°	145.3	162.3	244.2	300.2	313.9
75°	118.1	135.3	210.7	255.9	259.9
77.5°	91.3	112.0	181.8	223.4	221.6
80°	66.7	93.6	158.0	197.6	194.5
82.5°	44.9	76.5	136.5	173.5	169.9
85°	23.7	62.9	121.1	152.8	146.7
87.5°	10.2	50.6	106.3	128.2	120.8
90°	0.5	36.9	89.1	111.8	102.4
92.5°	0.5	26.9	81.2	105.0	97.4
95°	0.5	20.3	70.7	93.1	85.2
97.5°	0.5	14.6	60.2	81.2	73.0
100°	0.5	9.4	50.6	69.4	61.1
102.5°	0.5	5.3	41.0	60.6	50.6
105°	0.5	3.5	33.4	49.7	40.9
107.5°	0.5	2.7	28.2	41.8	33.9
110°	0.5	1.8	22.4	33.4	27.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	1.8	18.9	27.3	21.1
115°	0.5	1.5	16.8	20.7	15.5
117.5°	0.5	1.8	14.0	18.1	12.8
120°	0.5	1.8	12.4	17.3	11.4
122.5°	0.5	2.3	10.6	15.5	11.5
125°	0.5	1.5	10.1	13.7	11.5
127.5°	0.5	1.5	9.4	12.7	11.5
130°	0.5	0.5	7.4	12.4	12.4
132.5°	0.5	1.0	5.3	11.0	11.9
135°	1.0	0.5	5.8	10.1	11.4
137.5°	1.0	1.3	4.0	8.9	9.7
140°	1.0	0.5	3.1	6.7	9.7
142.5°	0.5	1.0	3.1	5.8	7.1
145°	1.0	1.0	2.3	4.5	7.1
147.5°	1.0	0.5	2.2	2.7	4.5
150°	1.0	0.5	1.8	1.5	3.1
152.5°	1.0	0.5	1.5	1.0	2.3
155°	0.5	0.5	1.0	0.5	1.0
157.5°	1.0	0.5	1.0	0.5	0.5
160°	0.5	0.5	1.0	0.5	0.5
162.5°	0.5	0.5	1.0	0.5	0.5
165°	1.0	1.0	0.5	0.5	0.5
167.5°	0.5	0.5	0.5	0.5	1.0
170°	0.5	0.5	1.0	0.5	0.5
172.5°	0.5	0.5	0.5	0.5	0.5
175°	0.5	0.5	0.5	0.5	0.5
177.5°	0.5	0.5	0.5	0.5	0.5
180°	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)