

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: 14067

Luminaire Tested: **S2-WB-2T8 DL70**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14067
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: S2-WB-2T8 DL70
Description: CORELITE FLUORESCENT INDOOR LUMINAIRE
WITH WHITE INTERIOR, 24 CELL WHITE LOUVER AND WHITE SLOTTED TOP COVER"
Light Source: TWO 32 WATT PHILIPS LAMPS

F32T8/TL841. LUMEN RATING = 3000 LMS.

Ballast/Driver: -

Summary

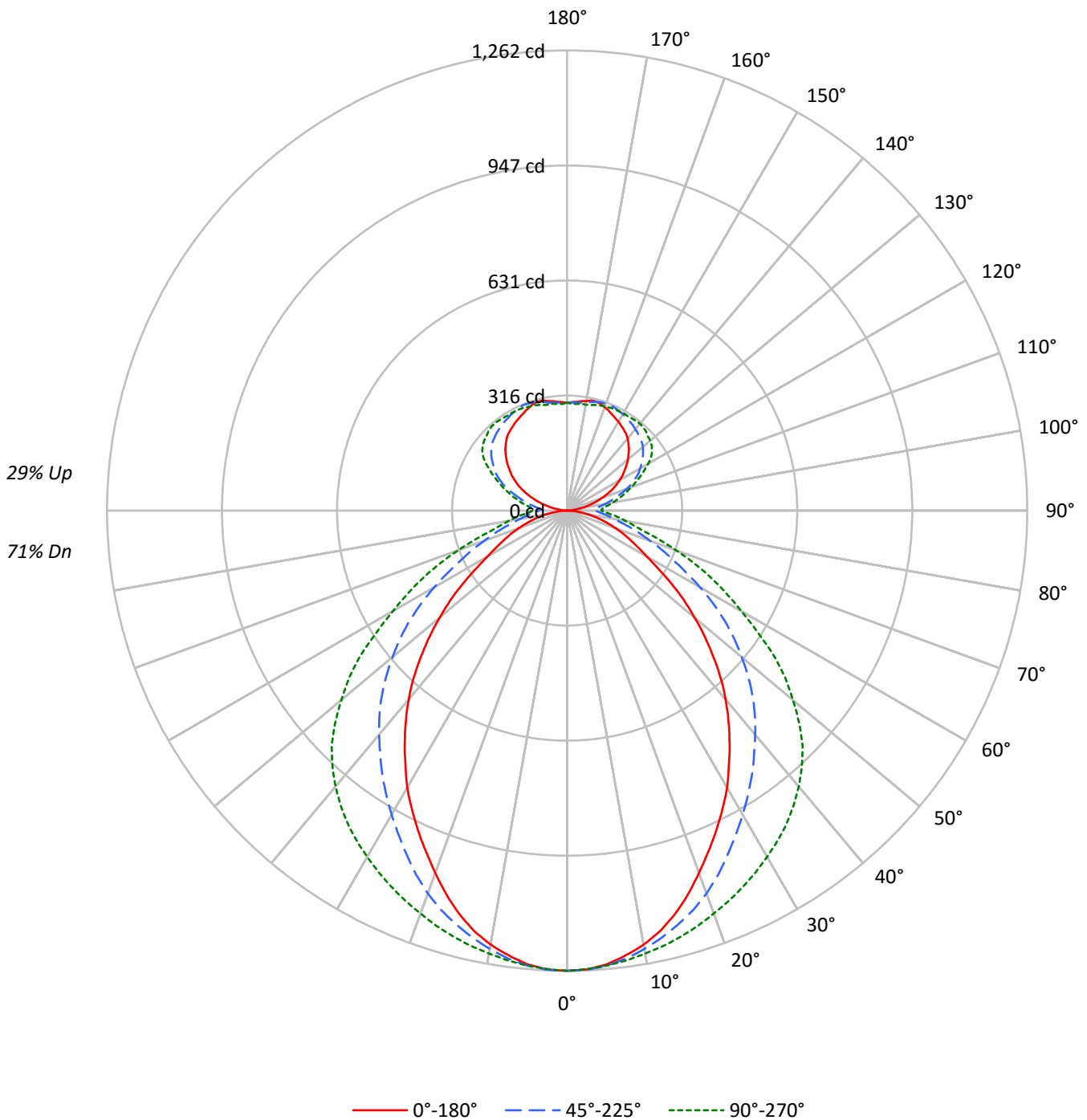
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 4400.1 lumens
Efficiency: 73.3%
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.06 / 1.3 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.25')
CIE Type: Semi-Direct

Input Watts (W): 58
Input Voltage (V): NR
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	82	82	82	82	78	78	78	78	70	70	70		62	62	62		55	55	55	52
1	75	72	69	66	71	68	65	63	61	59	57		55	53	52		49	47	46	43
2	68	63	58	54	65	60	55	52	54	50	47		48	45	43		43	41	39	37
3	63	55	50	45	59	53	48	44	47	43	40		43	39	37		38	36	34	31
4	57	49	43	39	54	47	41	37	42	38	34		38	35	32		34	31	29	27
5	53	44	38	33	50	42	36	32	38	33	30		34	31	28		31	28	25	23
6	49	40	33	29	46	38	32	28	34	30	26		31	27	24		28	25	22	21
7	45	36	30	26	43	34	29	25	31	27	23		28	24	22		26	22	20	18
8	42	33	27	23	40	31	26	22	29	24	21		26	22	19		24	20	18	16
9	39	30	24	20	37	29	23	20	26	22	19		24	20	17		22	19	16	15
10	37	28	22	18	35	26	21	18	24	20	17		22	18	16		20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6793	6793	6793
5°	6711	6539	6483
10°	6534	6235	6195
15°	6274	5917	5940
20°	5920	5589	5699
25°	5586	5217	5486
30°	5262	4866	5288
35°	4890	4542	5104
40°	4515	4226	4891
45°	4062	3917	4634
50°	3553	3550	4241
55°	3006	3157	3783
60°	2444	2685	3180
65°	2154	2203	2673
70°	1894	1813	2101
75°	1614	1492	1570
80°	1277	1245	1311
85°	731	1096	1111



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	118.4	2.7	2.0
10°-20°	331.1	7.5	5.5
20°-30°	482.7	11.0	8.0
30°-40°	562.7	12.8	9.4
40°-50°	561.1	12.8	9.4
50°-60°	466.6	10.6	7.8
60°-70°	316.6	7.2	5.3
70°-80°	180.7	4.1	3.0
80°-90°	96.6	2.2	1.6
90°-100°	79.9	1.8	1.3
100°-110°	136.0	3.1	2.3
110°-120°	191.2	4.3	3.2
120°-130°	220.3	5.0	3.7
130°-140°	215.4	4.9	3.6
140°-150°	185.3	4.2	3.1
150°-160°	140.7	3.2	2.3
160°-170°	86.5	2.0	1.4
170°-180°	28.4	0.6	0.5
0°-30°	932.2	21.2	15.5
0°-40°	1494.8	34.0	24.9
0°-60°	2522.5	57.3	42.0
0°-90°	3116.5	70.8	51.9
90°-120°	407.1	9.3	6.8
90°-150°	1028.1	23.4	17.1
90°-180°	1284.0	29.2	21.4
0°-180°	4400.1	100.0	73.3

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1249	1249	1252	1252	1252	118
15°	1145	1154	1175	1199	1209	321
25°	968	984	1041	1110	1139	445
35°	777	807	884	994	1049	485
45°	567	618	719	843	913	437
55°	349	414	528	632	691	312
65°	192	238	320	397	435	191
75°	96	114	178	220	216	102
85°	20	52	98	127	121	24
90°	0	32	77	100	94	1
95°	12	34	80	104	101	15
105°	69	103	138	164	156	74
115°	136	163	206	228	221	134
125°	192	216	254	281	284	172
135°	240	258	282	305	306	184
145°	270	279	299	313	309	170
155°	291	294	310	313	307	135
165°	309	310	309	302	300	87
175°	299	298	297	294	293	29
180°	296	296	296	296	296	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1262.2	1262.2	1262.2	1262.2	1262.2
2.5°	1259.6	1258.7	1260.4	1257.3	1258.6
5°	1248.9	1249.0	1252.5	1251.7	1252.5
7.5°	1230.6	1232.3	1239.3	1240.2	1244.2
10°	1208.7	1212.5	1220.9	1229.3	1233.6
12.5°	1180.5	1186.2	1199.8	1214.8	1222.5
15°	1144.9	1153.8	1175.2	1198.6	1209.0
17.5°	1103.2	1116.4	1148.9	1178.8	1193.7
20°	1057.2	1072.1	1117.2	1156.8	1176.1
22.5°	1012.1	1027.4	1081.4	1134.0	1158.6
25°	968.1	983.9	1041.4	1109.9	1139.2
27.5°	922.5	942.2	1001.5	1083.6	1118.7
30°	877.3	899.7	962.8	1056.7	1096.6
32.5°	825.9	853.6	923.4	1027.4	1073.9
35°	776.8	807.1	883.9	994.5	1048.8
37.5°	726.7	761.0	842.2	961.5	1019.9
40°	676.3	715.0	802.3	923.3	988.3
42.5°	623.7	667.0	762.3	883.4	952.3
45°	567.0	617.6	719.3	842.6	913.2
47.5°	512.2	565.3	673.3	793.4	863.3
50°	456.0	514.3	624.9	742.2	808.4
52.5°	403.4	463.5	578.0	689.0	754.5
55°	349.0	413.6	527.5	631.9	691.1
57.5°	295.0	367.4	474.9	569.7	617.6
60°	251.6	323.5	421.3	509.0	551.2
62.5°	219.6	280.5	368.6	449.9	492.5
65°	191.8	238.4	320.5	396.8	435.0
67.5°	166.3	201.0	281.3	346.7	375.7
70°	141.0	167.7	241.1	301.2	316.9
72.5°	118.6	138.7	209.4	255.5	265.1
75°	95.7	113.7	178.2	219.5	216.4
77.5°	74.7	94.9	151.9	188.3	186.2
80°	55.8	78.7	130.8	165.6	162.3
82.5°	37.4	64.2	113.7	143.5	142.7
85°	20.3	51.5	98.4	126.9	120.8
87.5°	4.9	40.5	85.7	108.9	102.8
90°	0.5	31.8	77.2	99.8	94.3
92.5°	4.5	27.8	74.2	98.7	95.7
95°	11.5	34.3	79.9	104.5	101.4
97.5°	22.9	48.8	92.7	115.5	114.2
100°	37.9	65.4	106.3	131.8	127.4
102.5°	54.0	84.7	121.3	147.1	140.5
105°	69.0	103.2	137.9	163.7	155.9
107.5°	86.0	116.3	154.6	178.6	170.7
110°	101.8	131.7	173.4	193.6	187.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	146.2	191.5	210.3	203.8
115°	135.8	162.9	206.0	228.2	221.3
117.5°	151.9	174.7	220.3	244.5	238.8
120°	165.6	188.8	231.2	260.8	256.7
122.5°	180.0	202.4	241.9	274.0	273.0
125°	191.9	215.5	253.6	281.4	284.1
127.5°	205.5	227.9	262.0	287.9	292.3
130°	217.3	237.9	271.2	292.8	297.6
132.5°	228.4	247.6	277.8	299.4	300.7
135°	239.6	258.2	282.3	305.0	306.0
137.5°	248.8	265.5	287.1	308.1	309.5
140°	258.2	270.8	291.0	309.8	310.8
142.5°	265.5	276.2	295.4	312.9	310.3
145°	270.4	278.7	298.6	313.4	309.0
147.5°	275.7	283.6	301.1	314.7	307.7
150°	281.4	286.7	305.5	314.7	308.1
152.5°	285.7	291.0	308.1	314.2	307.3
155°	291.0	294.5	310.3	312.6	307.2
157.5°	296.8	300.4	313.3	310.3	305.5
160°	301.5	305.5	312.1	306.3	303.3
162.5°	306.8	309.0	311.1	303.3	302.4
165°	309.0	309.8	308.6	301.5	299.8
167.5°	309.1	306.8	305.1	297.2	296.3
170°	305.1	304.2	300.4	295.4	295.1
172.5°	302.5	300.2	298.6	294.6	295.4
175°	299.4	297.6	296.8	293.6	293.3
177.5°	297.6	295.9	296.8	294.5	292.4
180°	295.6	295.6	295.6	295.6	295.6

(END OF REPORT)