

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: 13378

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 13378
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: S2-WB-2T8
Description: CORELITE FLUORESCENT FIXTURE
WITH WHITE INTERIOR AND 35 CELL WHITE LOUVER
Light Source: TWO PHILIPS F32T8/TL841 32 WATT LAMPS. LUMEN RATING = 3000 LMS.
Ballast/Driver: ONE MOTOROLA M2-IN-T8-GP-D-120 BALLAST OPERATING AT 120 VAC AND 60 WATTS

Summary

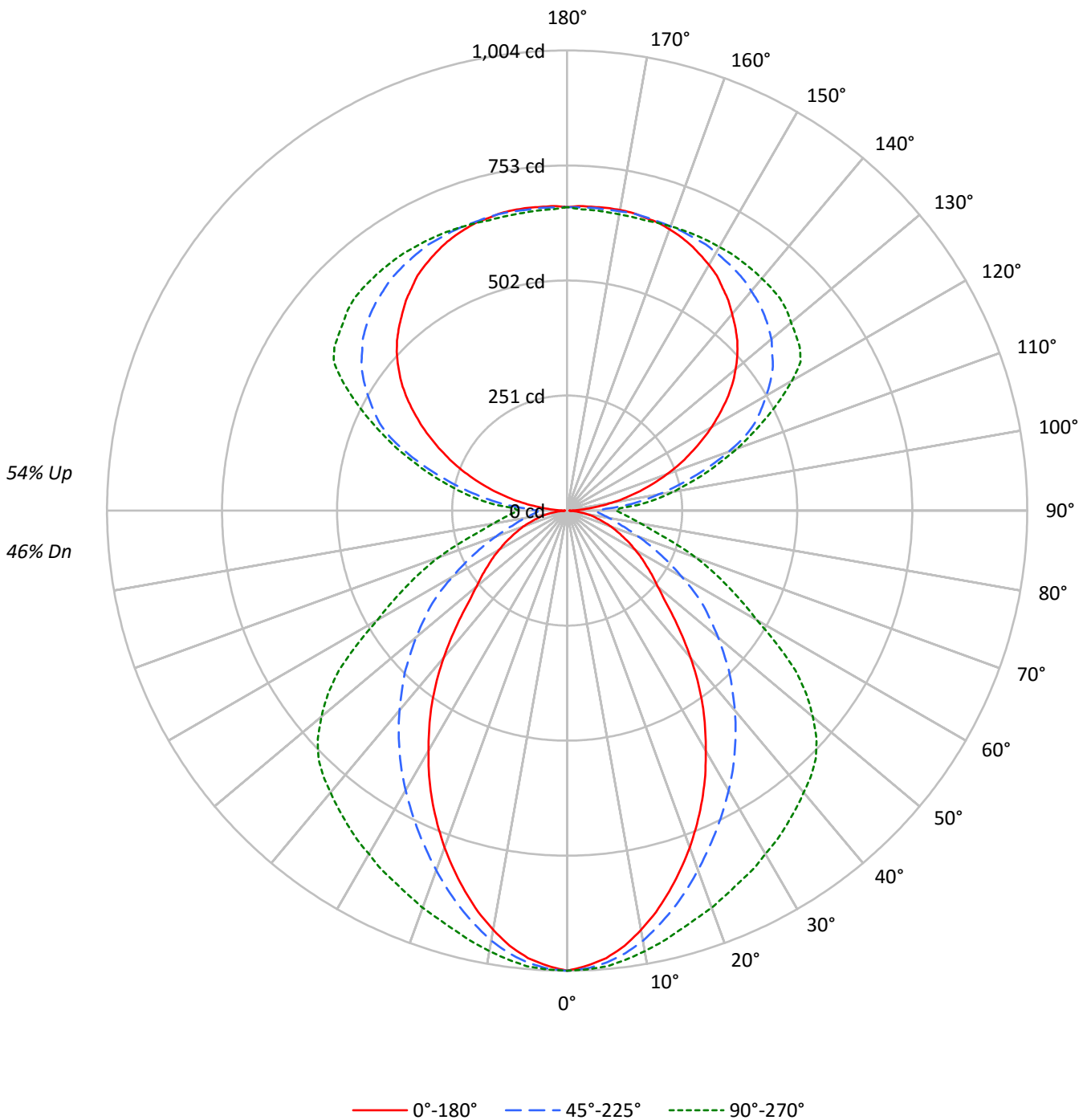
Lumens per Lamp: 3000 (2 lamps)
Luminaire Lumens: 5041.3 lumens
Efficiency: 84.0%
Efficacy: 84.0 lumens/watt
Spacing Criteria (0/90/45): 0.96 / 1.3 / 1.22
Luminous Opening: Rectangular w/ Sides (W: 0.75' x L: 4' x H: 0.25')
CIE Type: General Diffuse

Input Watts (W): 60
Input Voltage (V): NR
Input Current (A_{in}): 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	89	89	89	89	82	82	82	82	68	68	68	56	56	56	44	44	44	39
1	81	78	74	71	74	71	68	66	59	57	56	49	47	46	39	38	37	32
2	74	68	63	58	68	62	58	54	52	49	46	43	40	38	34	33	31	27
3	68	60	54	49	62	55	50	45	46	42	39	38	35	33	30	28	27	23
4	62	53	46	41	57	49	43	39	41	37	33	34	31	28	27	25	23	20
5	57	47	40	35	52	44	38	33	37	32	29	30	27	24	25	22	20	17
6	52	42	36	31	48	39	33	29	33	29	25	28	24	21	22	20	18	15
7	48	38	32	27	44	35	30	25	30	26	22	25	22	19	20	18	16	14
8	45	35	28	24	41	32	26	22	27	23	20	23	20	17	19	16	14	12
9	42	32	25	21	38	29	24	20	25	21	18	21	18	15	17	15	13	11
10	39	29	23	19	36	27	22	18	23	19	16	20	16	14	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3602	3602	3602
5°	3510	3480	3493
10°	3348	3309	3358
15°	3142	3103	3233
20°	2919	2893	3140
25°	2681	2696	3060
30°	2419	2514	3005
35°	2161	2337	2969
40°	1865	2158	2939
45°	1562	1986	2919
50°	1340	1800	2796
55°	1217	1627	2577
60°	1107	1397	2175
65°	1003	1178	1896
70°	913	978	1632
75°	776	820	1328
80°	656	735	1165
85°	408	706	1113



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	93.3	1.9	1.6
10°-20°	253.5	5.0	4.2
20°-30°	359.9	7.1	6.0
30°-40°	409.0	8.1	6.8
40°-50°	401.7	8.0	6.7
50°-60°	338.3	6.7	5.6
60°-70°	236.1	4.7	3.9
70°-80°	143.5	2.8	2.4
80°-90°	83.3	1.7	1.4
90°-100°	132.7	2.6	2.2
100°-110°	286.5	5.7	4.8
110°-120°	416.2	8.3	6.9
120°-130°	476.0	9.4	7.9
130°-140°	461.5	9.2	7.7
140°-150°	397.4	7.9	6.6
150°-160°	302.0	6.0	5.0
160°-170°	187.2	3.7	3.1
170°-180°	63.2	1.3	1.1
0°-30°	706.7	14.0	11.8
0°-40°	1115.8	22.1	18.6
0°-60°	1855.7	36.8	30.9
0°-90°	2318.7	46.0	38.6
90°-120°	835.4	16.6	13.9
90°-150°	2170.3	43.0	36.2
90°-180°	2723.0	54.0	45.4
0°-180°	5041.3	100.0	84.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1004	1004	1004	1004	1004	
5°	980	988	990	995	998	92
15°	860	874	898	929	948	241
25°	697	714	770	847	893	320
35°	515	544	638	759	836	320
45°	327	374	501	663	767	255
55°	212	233	364	514	608	191
65°	134	146	222	321	383	134
75°	69	81	121	188	215	75
85°	17	37	72	116	130	19
90°	5	28	65	98	107	5
95°	42	93	127	163	162	46
105°	165	250	285	318	311	174
115°	298	364	452	486	480	295
125°	426	465	548	598	620	380
135°	525	551	607	645	656	404
145°	592	606	640	661	664	371
155°	639	643	656	663	663	295
165°	661	663	663	658	656	187
175°	665	665	663	659	658	64
180°	662	662	662	662	662	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1004	1004	1004	1004	1004
2.5°	994	1002	1000	1002	1002
5°	980	988	990	995	998
7.5°	958	967	974	983	988
10°	929	940	953	967	976
12.5°	897	908	926	950	963
15°	860	874	898	929	948
17.5°	822	835	867	908	934
20°	782	796	835	888	922
22.5°	740	756	802	868	907
25°	697	714	770	847	893
27.5°	652	672	737	825	881
30°	605	630	705	804	865
32.5°	560	587	672	782	852
35°	515	544	638	759	836
37.5°	467	501	604	734	820
40°	419	460	569	712	803
42.5°	372	418	534	687	787
45°	327	374	501	663	767
47.5°	288	333	464	636	738
50°	258	296	430	600	700
52.5°	235	263	395	557	658
55°	212	233	364	514	608
57.5°	192	207	327	466	543
60°	171	185	289	409	478
62.5°	153	165	254	361	429
65°	134	146	222	321	383
67.5°	117	128	192	285	340
70°	102	111	165	248	298
72.5°	85	96	141	217	255
75°	69	81	121	188	215
77.5°	58	67	107	164	185
80°	43	56	92	145	163
82.5°	29	45	81	129	145
85°	17	37	72	116	130
87.5°	7	29	65	105	117
90°	5	28	65	98	107
92.5°	17	64	84	115	115
95°	42	93	127	163	162
97.5°	68	129	164	197	199
100°	100	171	202	235	234
102.5°	132	212	243	274	270
105°	165	250	285	318	311
107.5°	198	278	330	355	350
110°	232	307	375	398	394



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	266	335	418	440	436
115°	298	364	452	486	480
117.5°	331	390	477	525	524
120°	364	414	502	562	567
122.5°	395	442	526	584	604
125°	426	465	548	598	620
127.5°	455	487	564	613	629
130°	480	511	582	625	638
132.5°	504	530	595	637	649
135°	525	551	607	645	656
137.5°	543	568	617	651	659
140°	560	582	625	656	661
142.5°	578	594	634	658	663
145°	592	606	640	661	664
147.5°	608	617	645	662	665
150°	619	629	650	662	664
152.5°	629	635	655	663	664
155°	639	643	656	663	663
157.5°	647	650	659	662	662
160°	653	656	660	661	660
162.5°	659	660	661	659	658
165°	661	663	663	658	656
167.5°	665	664	664	658	656
170°	666	665	663	658	656
172.5°	666	665	662	658	657
175°	665	665	663	659	658
177.5°	665	664	662	659	658
180°	662	662	662	662	662

(END OF REPORT)