

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: 266p103

Luminaire Tested: **E2W-WW-1T5HO-1C-120-4**

Issue Date: 3/3/2020

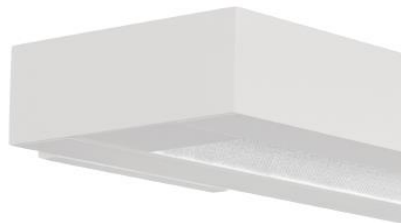
Test Information

Test Method: LM-41-14
Report Number: 266p103
Test Lab: METALUX LABORATORIES
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: E2W-WW-1T5HO-1C-120-4
Description: ELEMENT WALL MOUNT, 1 LAMP T5HO, WITH WHITE BLADE LOUVER,
COMBINED UPPER/LOWER
Light Source: ONE - F54T5HO - 4450 LUMENS -54 WATTS
Ballast/Driver: -

Summary

Lumens per Lamp: 4450 (1 lamp)
Luminaire Lumens: 4051.6 lumens
Efficiency: 91.0%
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.34 / 1.12 / 1.34
Luminous Opening: Rectangular (W 4' x L: 0.33' x H: 0')
CIE Type: Semi-Indirect

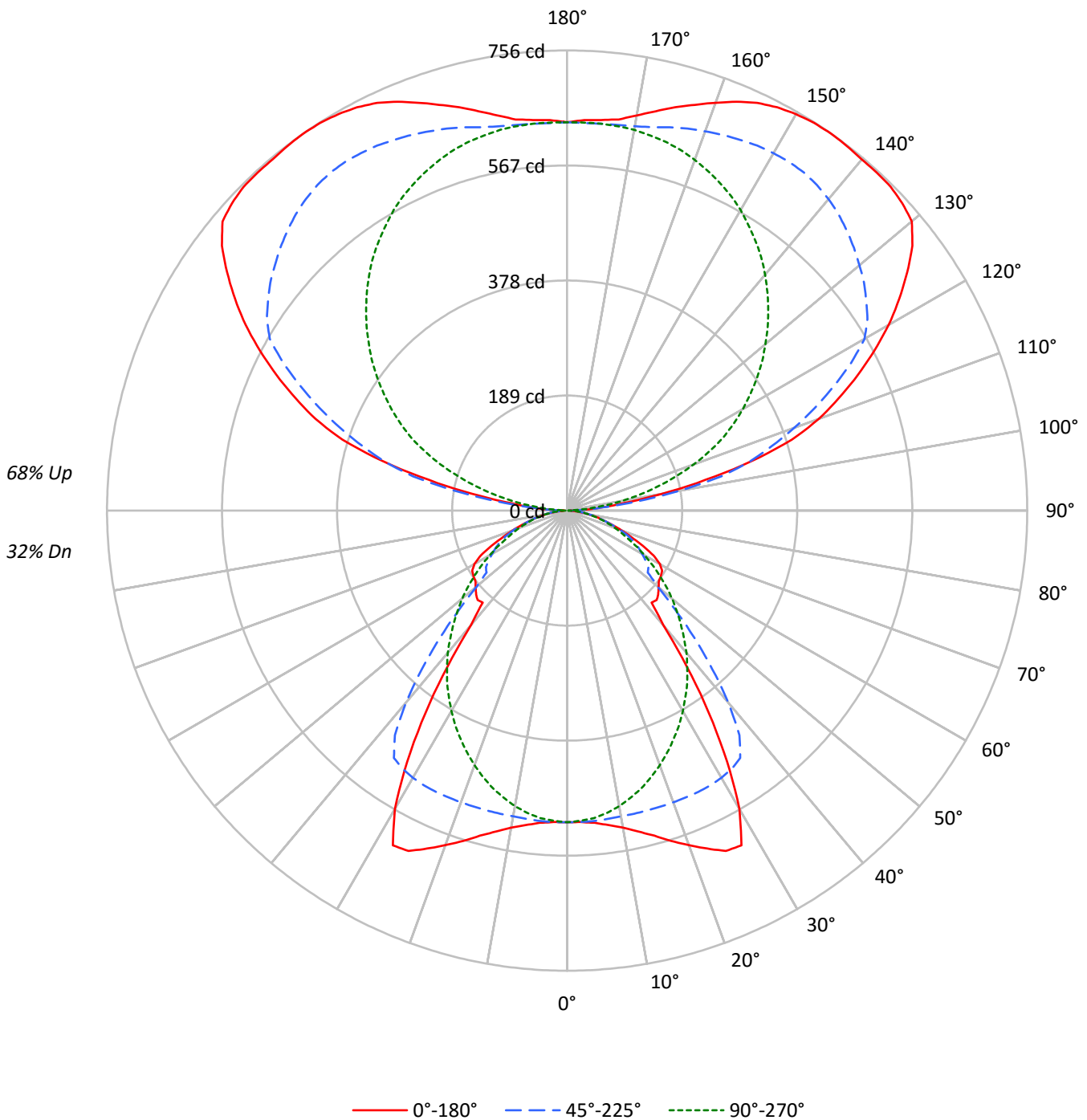
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	94	94	94	94	84	84	84	84	67	67	67	50	50	50	36	36	36	29
1	85	82	78	75	77	74	71	68	59	57	55	45	43	42	32	31	30	25
2	78	72	66	62	70	65	60	56	51	48	46	39	37	36	28	27	26	21
3	71	63	57	52	64	57	52	47	46	42	39	35	32	30	25	24	22	18
4	65	56	49	44	58	51	45	40	41	36	33	31	28	26	23	21	19	16
5	60	50	43	38	54	45	39	35	36	32	29	28	25	23	21	19	17	14
6	55	45	38	33	49	41	34	30	33	28	25	25	22	20	19	17	15	12
7	51	40	33	28	46	37	31	26	30	25	22	23	20	18	17	15	13	11
8	47	36	30	25	42	33	27	23	27	23	19	21	18	16	16	14	12	10
9	44	33	27	22	40	30	25	21	25	20	17	19	16	14	15	12	11	9
10	41	30	24	20	37	28	22	18	23	18	16	18	15	13	13	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4133	4133	4133
5°	4173	4149	4109
10°	4336	4181	4041
15°	4622	4262	3945
20°	5026	4381	3823
25°	5496	4543	3688
30°	5276	4726	3542
35°	4001	4888	3390
40°	2592	4342	3214
45°	2375	3368	3014
50°	2462	2424	2826
55°	2646	2294	2604
60°	2842	2293	2373
65°	2617	2311	2120
70°	2242	2195	1983
75°	1934	1934	1840
80°	1674	1767	1674
85°	1389	1575	1667



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	48.8	1.2	1.1
10°-20°	145.1	3.6	3.3
20°-30°	235.7	5.8	5.3
30°-40°	262.9	6.5	5.9
40°-50°	207.8	5.1	4.7
50°-60°	170.4	4.2	3.8
60°-70°	122.9	3.0	2.8
70°-80°	66.4	1.6	1.5
80°-90°	20.3	0.5	0.5
90°-100°	73.5	1.8	1.7
100°-110°	292.2	7.2	6.6
110°-120°	442.3	10.9	9.9
120°-130°	507.0	12.5	11.4
130°-140°	486.7	12.0	10.9
140°-150°	414.4	10.2	9.3
150°-160°	308.8	7.6	6.9
160°-170°	185.4	4.6	4.2
170°-180°	61.2	1.5	1.4
0°-30°	429.6	10.6	9.7
0°-40°	692.5	17.1	15.6
0°-60°	1070.7	26.4	24.1
0°-90°	1280.2	31.6	28.8
90°-120°	807.9	19.9	18.2
90°-150°	2216.1	54.7	49.8
90°-180°	2771.0	68.4	62.3
0°-180°	4051.6	100.0	91.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	512	512	512	512	512	
5°	515	516	512	508	507	50
15°	553	541	510	482	472	158
25°	617	584	510	441	414	279
35°	406	445	496	389	344	251
45°	208	198	295	328	264	162
55°	188	176	163	240	185	168
65°	137	134	121	115	111	135
75°	62	62	62	63	59	67
85°	15	16	17	19	18	17
90°	5	5	5	5	2	6
95°	54	54	56	75	31	64
105°	314	318	310	265	156	325
115°	527	513	483	390	282	521
125°	682	668	600	474	381	609
135°	752	722	650	539	467	580
145°	756	735	678	585	540	474
155°	739	720	672	614	594	341
165°	686	675	652	630	627	195
175°	644	642	638	636	638	62
180°	638	638	638	638	638	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	512	512	512	512	512
2.5°	512	514	512	511	510
5°	515	516	512	508	507
7.5°	521	519	511	504	501
10°	529	525	510	498	493
12.5°	540	532	510	491	483
15°	553	541	510	482	472
17.5°	569	552	510	473	459
20°	585	563	510	463	445
22.5°	601	574	510	452	430
25°	617	584	510	441	414
27.5°	620	593	509	428	398
30°	566	579	507	415	380
32.5°	489	518	503	402	362
35°	406	445	496	389	344
37.5°	323	370	465	374	324
40°	246	296	412	360	305
42.5°	205	229	353	345	284
45°	208	198	295	328	264
47.5°	203	199	240	311	244
50°	196	192	193	292	225
52.5°	190	183	167	271	205
55°	188	176	163	240	185
57.5°	185	171	153	203	166
60°	176	165	142	168	147
62.5°	160	152	132	138	129
65°	137	134	121	115	111
67.5°	114	113	108	100	97
70°	95	94	93	88	84
72.5°	78	77	76	75	71
75°	62	62	62	63	59
77.5°	49	49	50	52	47
80°	36	37	38	40	36
82.5°	25	26	27	29	27
85°	15	16	17	19	18
87.5°	9	9	9	10	9
90°	5	5	5	5	2
92.5°	26	26	25	25	8
95°	54	54	56	75	31
97.5°	91	96	116	137	60
100°	158	164	187	178	91
102.5°	233	240	259	220	123
105°	314	318	310	265	156
107.5°	387	383	353	309	188
110°	440	427	397	339	221



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	483	470	440	365	252
115°	527	513	483	390	282
117.5°	569	555	526	412	308
120°	610	595	564	434	333
122.5°	647	632	585	454	357
125°	682	668	600	474	381
127.5°	715	697	615	493	404
130°	739	709	627	509	425
132.5°	747	716	639	525	447
135°	752	722	650	539	467
137.5°	753	725	660	552	487
140°	753	729	668	564	506
142.5°	755	733	674	575	524
145°	756	735	678	585	540
147.5°	755	734	679	594	555
150°	752	733	678	602	570
152.5°	747	728	676	608	583
155°	739	720	672	614	594
157.5°	727	709	668	619	604
160°	713	698	663	622	613
162.5°	699	687	658	626	621
165°	686	675	652	630	627
167.5°	672	664	645	633	631
170°	659	653	641	635	635
172.5°	648	645	639	636	637
175°	644	642	638	636	638
177.5°	642	641	637	636	638
180°	638	638	638	638	638

(END OF REPORT)