

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: ITL63568

Luminaire Tested: **IB-SW-1T5-1C-120**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: ITL63568  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: IB-SW-1T5-1C-120  
Description: EXTRUDED METAL HOUSING WITH UNFINISHED METAL END PLATES,  
FORMED WHITE PAINTED METAL REFLECTORS, ONE FORMED METAL  
REFLECTOR INSERT ON EACH SIDE WITH PREMIUM SPECULAR FINISH,  
FABRICATED WHITE PAINTED METAL 18-CELL LOUVER, OPEN TOP.  
Light Source: ONE 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENT.  
Ballast/Driver: UNIVERSAL B254PUNV-D

**Summary**

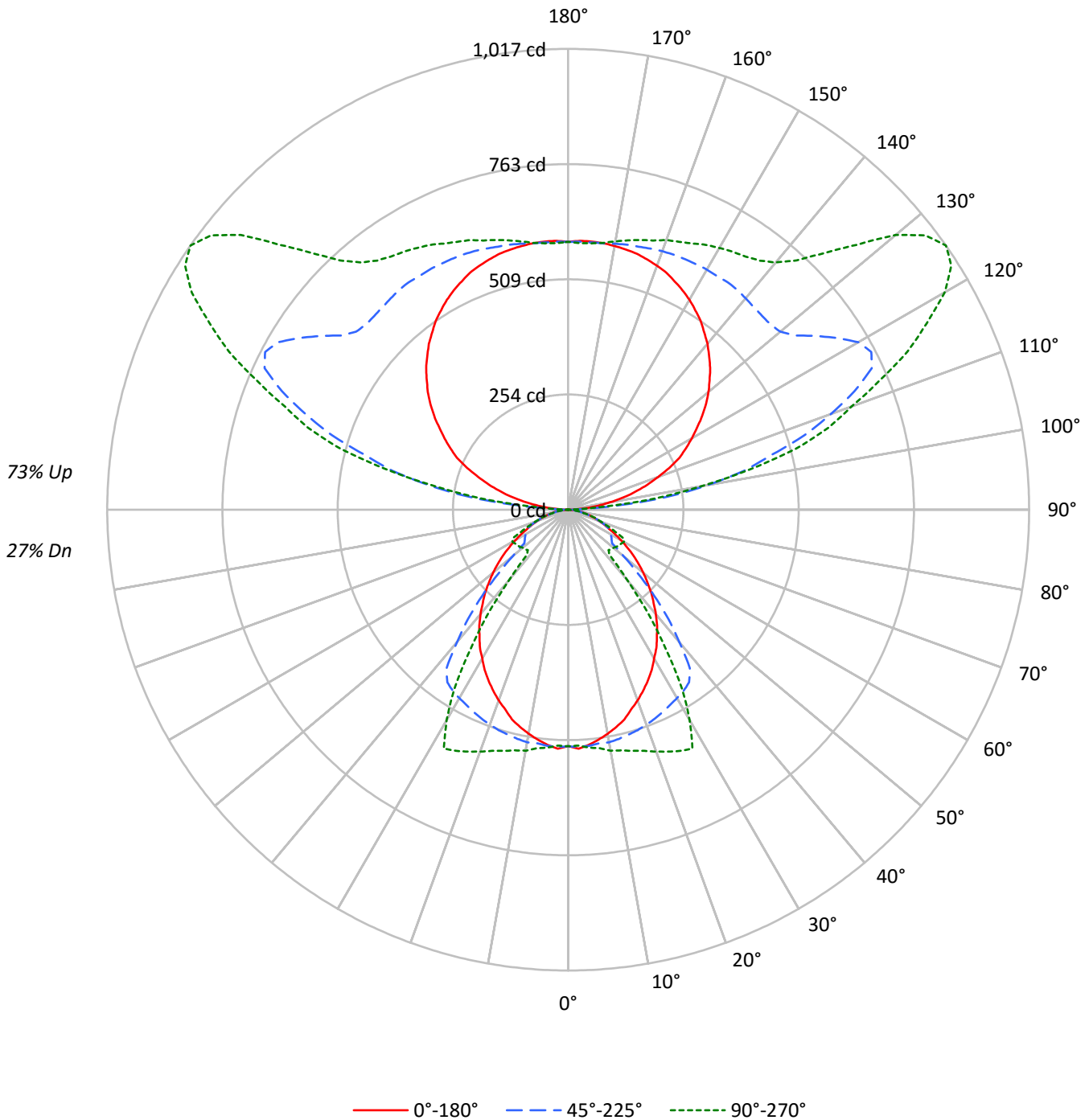
Lumens per Lamp: 4450 (1 lamp)  
Luminaire Lumens: 4305.8 lumens  
Efficiency: 96.8%  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.3 / 1.28  
Luminous Opening: Rectangular (W 0.47' x L: 3.99' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 62.8  
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	98	98	98	98	88	88	88	88	68	68	68	50	50	50	34	34	34	26
1	90	86	82	79	80	77	74	71	60	58	56	45	43	42	30	30	29	23
2	82	75	70	65	73	68	63	59	53	50	47	40	38	36	27	26	25	19
3	75	67	60	55	67	60	54	50	47	43	40	35	33	31	24	23	22	17
4	69	59	52	46	61	53	47	42	42	38	34	32	29	26	22	20	19	15
5	63	53	45	40	56	47	41	36	38	33	30	28	25	23	20	18	17	13
6	58	47	40	34	52	43	36	32	34	29	26	26	23	20	18	16	15	12
7	54	43	35	30	48	38	32	28	31	26	23	23	20	18	17	15	13	10
8	50	39	31	27	44	35	29	24	28	23	20	21	18	16	15	13	12	9
9	46	35	28	24	41	32	26	22	26	21	18	20	17	14	14	12	11	9
10	43	32	26	21	39	29	23	19	24	19	16	18	15	13	13	11	10	8

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

	0°	45°	90°
0°	3004	3004	3004
5°	3010	3022	3045
10°	2934	3045	3156
15°	2854	3063	3283
20°	2744	3093	3479
25°	2642	3131	3728
30°	2519	3190	3562
35°	2396	3267	2642
40°	2262	2863	1518
45°	2108	2181	1026
50°	1934	1433	1173
55°	1756	1174	1375
60°	1543	1243	1635
65°	1348	1348	1553
70°	1212	1245	1296
75°	1112	1090	1112
80°	1028	928	928
85°	859	660	594



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	49.8	1.2	1.1
10°-20°	145.3	3.4	3.3
20°-30°	228.7	5.3	5.1
30°-40°	250.6	5.8	5.6
40°-50°	179.8	4.2	4.0
50°-60°	137.7	3.2	3.1
60°-70°	102.4	2.4	2.3
70°-80°	53.2	1.2	1.2
80°-90°	12.9	0.3	0.3
90°-100°	123.6	2.9	2.8
100°-110°	438.3	10.2	9.8
110°-120°	610.5	14.2	13.7
120°-130°	606.9	14.1	13.6
130°-140°	479.4	11.1	10.8
140°-150°	379.4	8.8	8.5
150°-160°	280.6	6.5	6.3
160°-170°	170.2	4.0	3.8
170°-180°	56.6	1.3	1.3
0°-30°	423.8	9.8	9.5
0°-40°	674.4	15.7	15.2
0°-60°	991.9	23.0	22.3
0°-90°	1160.4	27.0	26.1
90°-120°	1172.4	27.2	26.3
90°-150°	2638.0	61.3	59.3
90°-180°	3145.0	73.0	70.7
0°-180°	4305.8	100.0	96.8

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	522	522	522	522	522	
5°	521	520	523	525	527	49
15°	479	487	514	539	551	134
25°	416	439	493	553	587	191
35°	341	381	465	425	376	213
45°	259	307	268	133	126	199
55°	175	215	117	128	137	156
65°	99	100	99	114	114	100
75°	50	49	49	50	50	53
85°	13	13	10	9	9	14
90°	0	0	0	0	0	3
95°	38	132	115	105	84	43
105°	153	385	462	513	520	162
115°	271	392	739	820	826	264
125°	361	445	668	936	1017	322
135°	443	499	605	733	801	341
145°	509	544	613	664	682	318
155°	556	575	610	638	648	257
165°	585	588	601	612	616	165
175°	594	591	592	591	590	57
180°	591	591	591	591	591	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	522	522	522	522	522
2.5°	528	525	524	522	521
5°	521	520	523	525	527
7.5°	512	512	520	528	531
10°	502	507	521	533	540
12.5°	491	496	518	535	544
15°	479	487	514	539	551
17.5°	462	478	510	542	558
20°	448	465	505	545	568
22.5°	432	453	499	549	578
25°	416	439	493	553	587
27.5°	399	426	486	557	594
30°	379	410	480	551	536
32.5°	362	396	474	496	467
35°	341	381	465	425	376
37.5°	322	362	441	341	292
40°	301	345	381	269	202
42.5°	279	325	327	188	134
45°	259	307	268	133	126
47.5°	237	288	210	127	129
50°	216	267	160	127	131
52.5°	195	245	122	127	134
55°	175	215	117	128	137
57.5°	154	180	113	127	139
60°	134	146	108	126	142
62.5°	116	118	104	125	138
65°	99	100	99	114	114
67.5°	85	84	88	93	94
70°	72	72	74	77	77
72.5°	62	61	62	64	64
75°	50	49	49	50	50
77.5°	39	39	37	39	36
80°	31	31	28	29	28
82.5°	20	20	17	18	15
85°	13	13	10	9	9
87.5°	6	5	3	3	3
90°	0	0	0	0	0
92.5°	15	50	26	13	9
95°	38	132	115	105	84
97.5°	66	194	224	208	197
100°	94	265	311	322	298
102.5°	125	333	397	420	410
105°	153	385	462	513	520
107.5°	183	402	547	585	602
110°	211	398	616	659	665



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	241	392	684	747	743
115°	271	392	739	820	826
117.5°	292	399	754	881	892
120°	315	412	739	934	959
122.5°	337	426	705	951	1002
125°	361	445	668	936	1017
127.5°	383	458	631	893	994
130°	404	474	611	834	943
132.5°	423	487	605	778	866
135°	443	499	605	733	801
137.5°	460	512	606	699	746
140°	478	523	609	680	712
142.5°	493	534	612	671	693
145°	509	544	613	664	682
147.5°	522	552	611	658	675
150°	535	562	612	653	667
152.5°	546	568	611	645	659
155°	556	575	610	638	648
157.5°	566	579	609	633	640
160°	573	583	607	625	633
162.5°	579	586	604	618	623
165°	585	588	601	612	616
167.5°	588	589	599	605	609
170°	591	590	596	599	601
172.5°	593	590	593	594	594
175°	594	591	592	591	590
177.5°	594	591	592	590	589
180°	591	591	591	591	591

(END OF REPORT)