

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: ITL63571

Luminaire Tested: **NB-SM-1T5-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63571
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: NB-SM-1T5-1C-120
Description: EXTRUDED METAL HOUSING WITH UNFINISHED METAL END PLATES, FORMED WHITE PAINTED METAL REFLECTORS, ONE FORMED SEMI-SPECULAR METAL REFLECTOR INSERT ON EACH SIDE, CLEAR FLAT MICRO-LINEAR PRISMATIC PLASTIC LENS, LENS PRISMS DOWN AND PARALLEL WITH LAMP, OPEN TOP.
Light Source: ONE 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENT.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

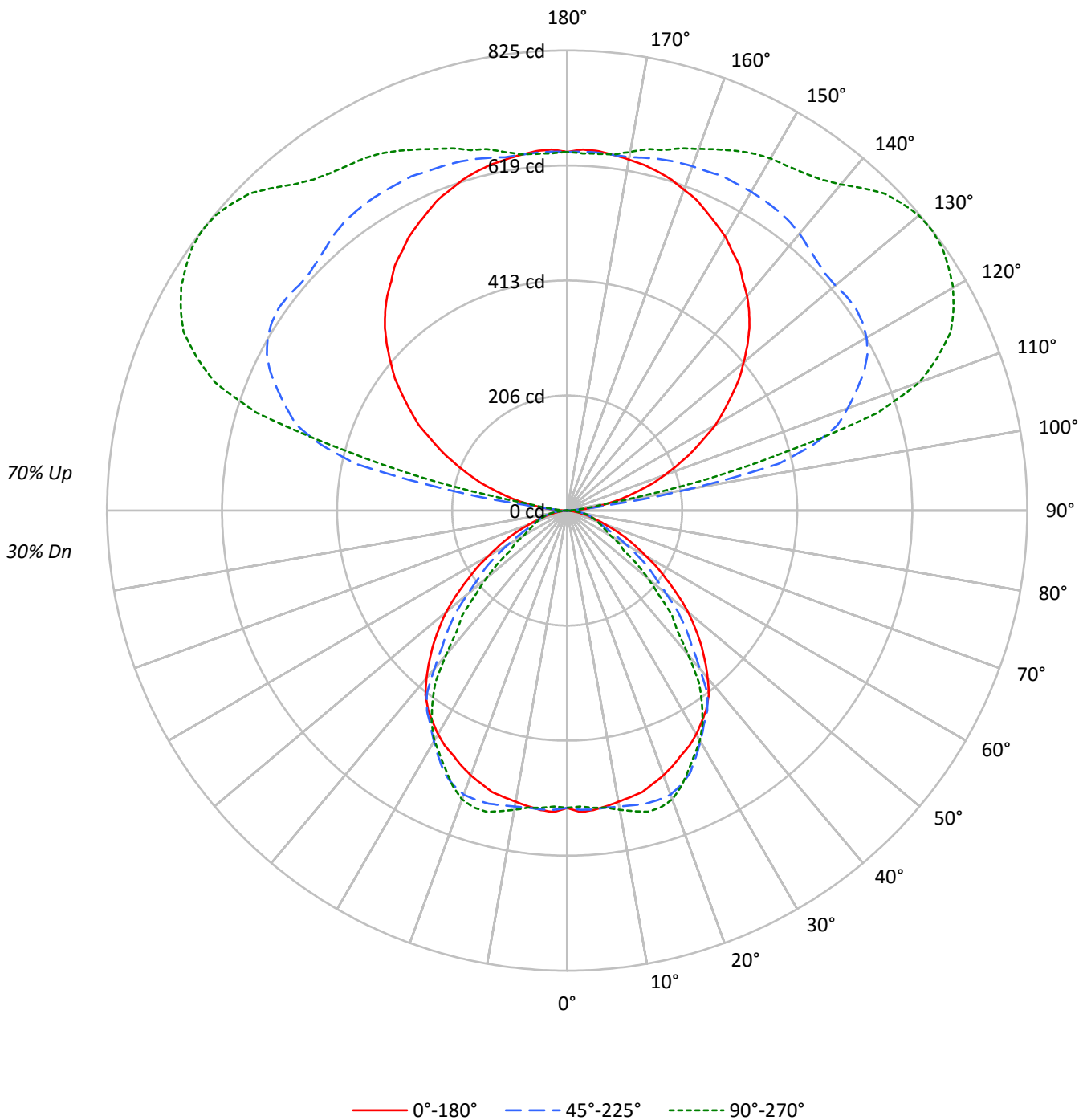
Lumens per Lamp: 4450 (1 lamp)
Luminaire Lumens: 4227.8 lumens
Efficiency: 95.0%
Efficacy: 67.4 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.29 / 1.29
Luminous Opening: Rectangular (W 0.61' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 62.7
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



TEST NUMBER: ITL63571
CATALOG NUMBER: NB-SM-1T5-1C-120

Luminous Intensity Polar Plot





TEST NUMBER: ITL63571

CATALOG NUMBER: NB-SM-1T5-1C-120

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	97	97	97	97	87	87	87	87	68	68	68	51	51	51	35	35	35	28
1	89	85	82	79	80	76	74	71	60	58	57	46	44	43	32	31	31	24
2	81	75	69	65	73	67	63	59	53	50	48	40	38	37	29	27	26	21
3	74	66	59	54	66	59	54	50	47	43	40	36	34	31	26	24	23	18
4	68	58	51	46	61	53	47	42	42	38	35	32	29	27	23	21	20	16
5	62	52	45	40	56	47	41	36	38	33	30	29	26	24	21	19	18	14
6	58	47	39	34	52	42	36	32	34	30	26	26	23	21	19	17	16	13
7	53	42	35	30	48	38	32	28	31	26	23	24	21	18	17	15	14	11
8	49	38	31	26	44	35	29	24	28	24	20	22	19	16	16	14	13	10
9	46	35	28	23	41	32	26	22	26	21	18	20	17	15	15	13	11	9
10	43	32	25	21	38	29	23	19	24	19	16	19	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2340	2340	2340
5°	2375	2371	2358
10°	2363	2403	2429
15°	2372	2472	2541
20°	2359	2532	2574
25°	2344	2519	2490
30°	2347	2423	2413
35°	2331	2347	2256
40°	2246	2120	1931
45°	2105	1875	1651
50°	1933	1584	1291
55°	1684	1362	941
60°	1431	1089	790
65°	1205	831	727
70°	924	744	732
75°	712	763	746
80°	480	784	784
85°	302	655	554



TEST NUMBER: ITL63571

CATALOG NUMBER: NB-SM-1T5-1C-120

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	51.2	1.2	1.2
10°-20°	152.7	3.6	3.4
20°-30°	234.2	5.5	5.3
30°-40°	268.2	6.3	6.0
40°-50°	232.9	5.5	5.2
50°-60°	158.3	3.7	3.6
60°-70°	90.1	2.1	2.0
70°-80°	47.4	1.1	1.1
80°-90°	13.3	0.3	0.3
90°-100°	58.2	1.4	1.3
100°-110°	377.5	8.9	8.5
110°-120°	540.0	12.8	12.1
120°-130°	552.2	13.1	12.4
130°-140°	494.7	11.7	11.1
140°-150°	407.8	9.6	9.2
150°-160°	303.5	7.2	6.8
160°-170°	184.2	4.4	4.1
170°-180°	61.4	1.5	1.4
0°-30°	438.2	10.4	9.8
0°-40°	706.4	16.7	15.9
0°-60°	1097.6	26.0	24.7
0°-90°	1248.4	29.5	28.1
90°-120°	975.7	23.1	21.9
90°-150°	2430.4	57.5	54.6
90°-180°	2979.0	70.5	66.9
0°-180°	4227.8	100.0	95.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	533	533	533	533	533	
5°	539	538	538	535	535	51
15°	522	527	544	555	559	147
25°	484	502	520	516	514	224
35°	435	436	438	432	421	271
45°	339	333	302	273	266	261
55°	220	205	178	146	123	198
65°	116	110	80	73	70	115
75°	42	44	45	39	44	45
85°	6	12	13	12	11	7
90°	0	0	0	0	0	2
95°	31	89	19	19	17	34
105°	127	305	457	454	405	136
115°	245	382	587	716	759	243
125°	360	476	632	774	821	322
135°	462	542	633	751	804	355
145°	538	589	657	714	739	336
155°	591	618	661	695	712	273
165°	629	632	652	664	669	178
175°	647	644	644	642	642	61
180°	643	643	643	643	643	



TEST NUMBER: ITL63571

CATALOG NUMBER: NB-SM-1T5-1C-120

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	533	533	533	533	533
2.5°	541	539	537	534	531
5°	539	538	538	535	535
7.5°	535	534	537	538	537
10°	530	532	539	542	545
12.5°	526	529	541	548	552
15°	522	527	544	555	559
17.5°	513	522	544	555	558
20°	505	516	542	550	551
22.5°	495	511	533	537	535
25°	484	502	520	516	514
27.5°	475	492	499	496	494
30°	463	478	478	477	476
32.5°	449	456	456	456	452
35°	435	436	438	432	421
37.5°	417	410	413	392	388
40°	392	390	370	359	337
42.5°	366	360	332	311	292
45°	339	333	302	273	266
47.5°	311	303	270	245	222
50°	283	269	232	206	189
52.5°	252	236	201	172	158
55°	220	205	178	146	123
57.5°	193	184	149	116	112
60°	163	156	124	99	90
62.5°	139	130	101	82	79
65°	116	110	80	73	70
67.5°	93	90	66	66	64
70°	72	74	58	59	57
72.5°	56	58	53	53	51
75°	42	44	45	39	44
77.5°	29	35	38	39	39
80°	19	26	31	31	31
82.5°	11	19	22	22	21
85°	6	12	13	12	11
87.5°	1	4	4	4	4
90°	0	0	0	0	0
92.5°	12	9	8	9	9
95°	31	89	19	19	17
97.5°	51	182	76	38	36
100°	75	232	221	134	72
102.5°	101	270	388	295	245
105°	127	305	457	454	405
107.5°	159	331	508	598	584
110°	186	351	535	648	672



TEST NUMBER: ITL63571

CATALOG NUMBER: NB-SM-1T5-1C-120

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	215	369	561	693	719
115°	245	382	587	716	759
117.5°	274	403	607	739	781
120°	307	429	620	756	799
122.5°	333	455	628	770	811
125°	360	476	632	774	821
127.5°	389	496	631	778	825
130°	413	513	628	773	823
132.5°	438	528	628	767	815
135°	462	542	633	751	804
137.5°	483	555	640	734	784
140°	502	567	648	723	763
142.5°	518	579	654	717	748
145°	538	589	657	714	739
147.5°	551	598	659	713	733
150°	567	606	660	709	729
152.5°	579	612	660	704	722
155°	591	618	661	695	712
157.5°	604	622	658	688	701
160°	612	625	657	679	690
162.5°	622	629	655	670	681
165°	629	632	652	664	669
167.5°	635	636	648	658	664
170°	639	638	643	648	653
172.5°	643	641	643	642	644
175°	647	644	644	642	642
177.5°	648	644	644	642	641
180°	643	643	643	643	643

(END OF REPORT)