

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: ITL63564

Luminaire Tested: **IB-SW-2T8-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63564
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IB-SW-2T8-1C-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: TWO 32-WATT T-8 FO32/835 LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B232IUNVHP-B

Summary

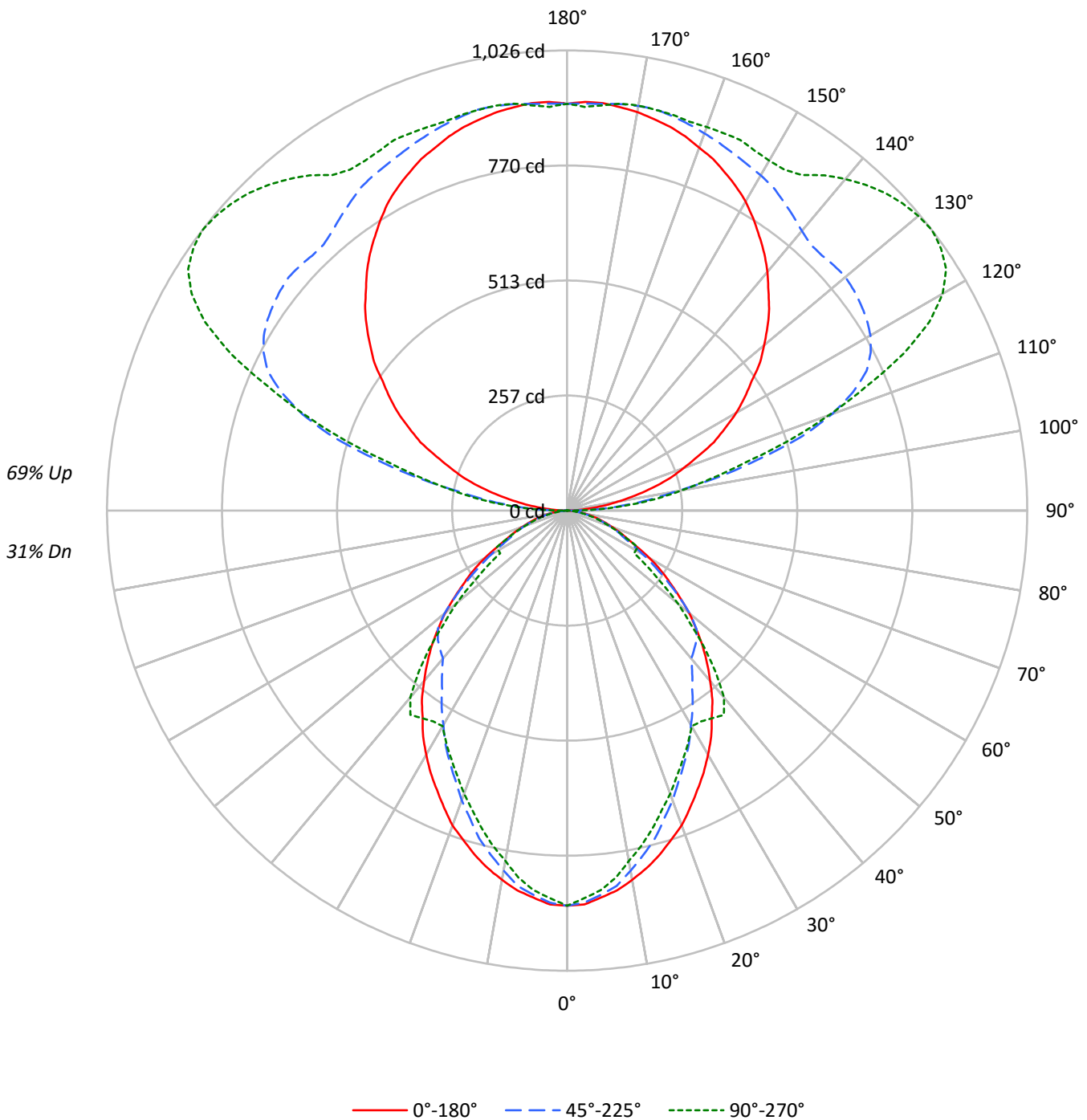
Lumens per Lamp: 2950 (2 lamps)
Luminaire Lumens: 5498.1 lumens
Efficiency: 93.2%
Efficacy: 99.8 lumens/watt
Spacing Criteria (0/90/45): 1.08 / 0.96 / 1.12
Luminous Opening: Rectangular (W 0.47' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.1
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	96	96	96	96	86	86	86	86	68	68	68	51	51	51	36	36	36	29
1	87	84	80	77	78	75	73	70	60	58	56	45	44	43	32	32	31	25
2	80	73	68	64	72	66	62	58	53	50	47	40	38	36	29	28	27	21
3	73	65	58	53	65	58	53	49	47	43	40	36	33	31	26	24	23	18
4	67	57	50	45	60	52	46	41	42	37	34	32	29	27	23	21	20	16
5	61	51	44	39	55	46	40	36	37	33	29	29	26	23	21	19	18	14
6	57	46	39	34	51	42	35	31	34	29	26	26	23	21	19	17	16	13
7	52	41	34	29	47	38	32	27	30	26	23	24	21	18	18	15	14	11
8	48	38	31	26	44	34	28	24	28	23	20	22	19	16	16	14	13	10
9	45	34	28	23	41	31	25	21	25	21	18	20	17	15	15	13	11	9
10	42	31	25	21	38	29	23	19	23	19	16	18	15	13	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5015	5015	5015
5°	4949	4914	4857
10°	4832	4711	4584
15°	4685	4461	4326
20°	4525	4162	4071
25°	4315	3888	3838
30°	4128	3628	3648
35°	3905	3377	3926
40°	3686	3203	4042
45°	3438	3285	3494
50°	3144	3162	2852
55°	2769	2680	2173
60°	2414	2220	2015
65°	1980	1832	1967
70°	1764	1698	1648
75°	1606	1474	1408
80°	1377	1180	1115
85°	1176	914	718



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	80.7	1.5	1.4
10°-20°	213.3	3.9	3.6
20°-30°	291.6	5.3	4.9
30°-40°	328.2	6.0	5.6
40°-50°	318.4	5.8	5.4
50°-60°	229.1	4.2	3.9
60°-70°	144.6	2.6	2.5
70°-80°	72.3	1.3	1.2
80°-90°	17.1	0.3	0.3
90°-100°	130.0	2.4	2.2
100°-110°	415.9	7.6	7.0
110°-120°	651.7	11.9	11.0
120°-130°	699.1	12.7	11.8
130°-140°	632.0	11.5	10.7
140°-150°	525.9	9.6	8.9
150°-160°	405.2	7.4	6.9
160°-170°	256.0	4.7	4.3
170°-180°	86.9	1.6	1.5
0°-30°	585.6	10.7	9.9
0°-40°	913.8	16.6	15.5
0°-60°	1461.3	26.6	24.8
0°-90°	1695.3	30.8	28.7
90°-120°	1197.6	21.8	20.3
90°-150°	3054.5	55.6	51.8
90°-180°	3803.0	69.2	64.5
0°-180°	5498.1	100.0	93.2

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	866	865	860	855	850	82
15°	795	782	757	737	734	224
25°	687	657	619	608	611	317
35°	562	520	486	519	565	352
45°	427	386	408	437	434	329
55°	279	256	270	238	219	251
65°	147	152	136	150	146	150
75°	73	71	67	65	64	77
85°	18	18	14	12	11	20
90°	0	0	0	0	0	3
95°	46	114	122	139	135	52
105°	197	398	442	422	408	208
115°	361	507	737	831	827	353
125°	502	597	800	975	1018	451
135°	637	694	804	949	1002	491
145°	747	783	841	883	913	468
155°	832	858	878	904	912	384
165°	886	900	910	911	913	250
175°	912	911	910	906	907	87
180°	907	907	907	907	907	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	881	881	881	881	881
2.5°	879	876	875	868	865
5°	866	865	860	855	850
7.5°	854	848	844	830	826
10°	836	830	815	802	793
12.5°	817	808	786	768	765
15°	795	782	757	737	734
17.5°	770	754	720	706	701
20°	747	723	687	670	672
22.5°	717	693	651	641	640
25°	687	657	619	608	611
27.5°	659	622	588	579	584
30°	628	587	552	548	555
32.5°	598	554	521	520	557
35°	562	520	486	519	565
37.5°	532	488	458	522	574
40°	496	453	431	522	544
42.5°	462	418	419	487	491
45°	427	386	408	437	434
47.5°	390	355	391	386	372
50°	355	320	357	329	322
52.5°	315	289	313	284	266
55°	279	256	270	238	219
57.5°	247	229	231	196	177
60°	212	205	195	164	177
62.5°	176	177	162	160	177
65°	147	152	136	150	146
67.5°	127	125	121	124	123
70°	106	106	102	101	99
72.5°	88	87	83	83	80
75°	73	71	67	65	64
77.5°	56	56	51	51	47
80°	42	40	36	34	34
82.5°	30	30	26	24	21
85°	18	18	14	12	11
87.5°	6	4	3	2	3
90°	0	0	0	0	0
92.5°	18	54	67	79	76
95°	46	114	122	139	135
97.5°	80	190	184	196	199
100°	115	284	245	263	259
102.5°	156	351	345	331	328
105°	197	398	442	422	408
107.5°	241	436	548	535	517
110°	275	462	628	636	621



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	315	487	690	749	721
115°	361	507	737	831	827
117.5°	396	525	763	898	910
120°	435	546	781	943	967
122.5°	469	568	792	965	1002
125°	502	597	800	975	1018
127.5°	542	620	806	976	1026
130°	573	648	810	970	1022
132.5°	606	671	808	961	1014
135°	637	694	804	949	1002
137.5°	664	718	804	935	985
140°	695	739	814	917	965
142.5°	722	763	828	898	942
145°	747	783	841	883	913
147.5°	772	804	855	886	901
150°	796	824	863	893	901
152.5°	815	840	870	901	905
155°	832	858	878	904	912
157.5°	849	872	887	903	911
160°	861	885	895	905	910
162.5°	875	894	903	907	909
165°	886	900	910	911	913
167.5°	894	905	916	915	915
170°	902	908	916	917	917
172.5°	907	911	914	913	915
175°	912	911	910	906	907
177.5°	912	912	908	902	901
180°	907	907	907	907	907

(END OF REPORT)