

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: ITL63569

Luminaire Tested: **IB-SW-2T5-1C-120**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: ITL63569
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: IB-SW-2T5-1C-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 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.
Ballast/Driver: UNIVERSAL B254PUNV-D

Summary

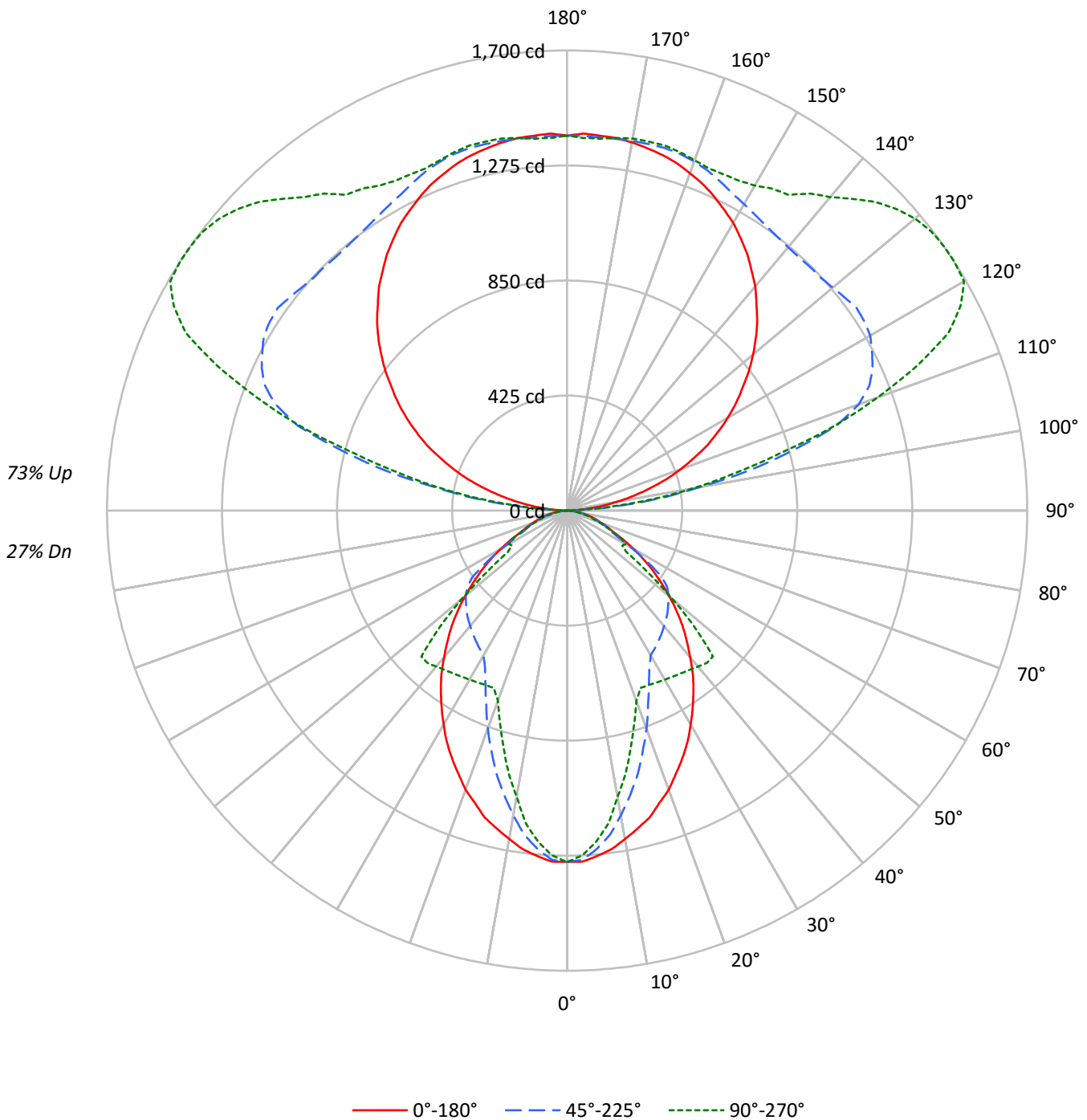
Lumens per Lamp: 4450 (2 lamps)
Luminaire Lumens: 8433.8 lumens
Efficiency: 94.8%
Efficacy: 69.9 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 0.7 / 1
Luminous Opening: Rectangular (W 0.47' x L: 3.99' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 120.6
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	96	96	96	96	86	86	86	86	67	67	67	49	49	49	33	33	33	25																			
1	88	84	81	78	78	75	72	70	59	57	55	43	42	41	29	29	28	22																			
2	80	74	68	64	72	66	62	58	52	49	46	38	37	35	26	25	24	19																			
3	73	65	59	53	65	58	53	48	46	42	39	34	32	30	23	22	21	16																			
4	67	58	51	45	60	52	46	41	41	37	33	31	28	26	21	20	18	14																			
5	62	51	44	39	55	46	40	35	37	32	29	28	25	22	19	17	16	12																			
6	57	46	39	34	51	41	35	31	33	28	25	25	22	20	17	16	14	11																			
7	52	41	34	29	47	37	31	27	30	25	22	23	20	17	16	14	13	10																			
8	49	38	31	26	43	34	28	24	27	23	20	21	18	15	15	13	11	9																			
9	45	34	27	23	40	31	25	21	25	20	17	19	16	14	14	12	10	8																			
10	42	31	25	20	38	28	23	19	23	19	16	18	15	12	13	11	9	7																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7471	7471	7471
5°	7401	7251	7095
10°	7200	6680	6271
15°	6996	6006	5405
20°	6719	5249	4575
25°	6402	4528	4515
30°	6068	4101	4792
35°	5713	4132	5157
40°	5312	4185	5650
45°	4908	4273	6203
50°	4414	4379	4549
55°	3873	4275	2689
60°	3258	3108	2855
65°	2574	2356	2520
70°	2306	2188	2087
75°	2113	1957	1846
80°	1823	1591	1425
85°	1585	1189	925



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	116.6	1.4	1.3
10°-20°	285.7	3.4	3.2
20°-30°	363.9	4.3	4.1
30°-40°	419.9	5.0	4.7
40°-50°	438.0	5.2	4.9
50°-60°	316.7	3.8	3.6
60°-70°	187.5	2.2	2.1
70°-80°	93.5	1.1	1.1
80°-90°	23.2	0.3	0.3
90°-100°	204.8	2.4	2.3
100°-110°	770.3	9.1	8.7
110°-120°	1129.3	13.4	12.7
120°-130°	1133.2	13.4	12.7
130°-140°	997.3	11.8	11.2
140°-150°	814.1	9.7	9.1
150°-160°	617.2	7.3	6.9
160°-170°	390.4	4.6	4.4
170°-180°	132.3	1.6	1.5
0°-30°	766.1	9.1	8.6
0°-40°	1186.0	14.1	13.3
0°-60°	1940.7	23.0	21.8
0°-90°	2244.9	26.6	25.2
90°-120°	2104.5	25.0	23.6
90°-150°	5049.1	59.9	56.7
90°-180°	6189.0	73.4	69.5
0°-180°	8433.8	100.0	94.8

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1281	1276	1255	1242	1228	121
15°	1174	1112	1008	933	907	329
25°	1008	878	713	685	711	464
35°	813	644	588	677	734	508
45°	603	437	525	672	762	463
55°	386	320	426	322	268	345
65°	189	194	173	193	185	197
75°	95	93	88	84	83	100
85°	24	23	18	17	14	26
90°	0	0	0	0	0	5
95°	73	207	183	175	153	84
105°	313	654	866	832	810	333
115°	572	805	1245	1512	1555	562
125°	791	927	1305	1591	1700	709
135°	993	1068	1271	1518	1612	765
145°	1159	1212	1283	1387	1424	725
155°	1282	1316	1340	1357	1370	591
165°	1360	1370	1387	1391	1396	384
175°	1390	1391	1383	1376	1379	132
180°	1385	1385	1385	1385	1385	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298	1298	1298	1298	1298
2.5°	1298	1296	1291	1280	1275
5°	1281	1276	1255	1242	1228
7.5°	1261	1242	1208	1176	1166
10°	1232	1203	1143	1101	1073
12.5°	1203	1159	1076	1016	996
15°	1174	1112	1008	933	907
17.5°	1133	1059	930	854	824
20°	1097	999	857	770	747
22.5°	1051	943	781	708	709
25°	1008	878	713	685	711
27.5°	963	819	656	684	716
30°	913	756	617	681	721
32.5°	863	699	603	679	727
35°	813	644	588	677	734
37.5°	763	582	573	676	742
40°	707	531	557	675	752
42.5°	654	480	542	673	764
45°	603	437	525	672	762
47.5°	548	405	507	651	641
50°	493	378	489	543	508
52.5°	437	350	466	438	375
55°	386	320	426	322	268
57.5°	335	292	348	236	241
60°	283	261	270	221	248
62.5°	235	230	211	218	228
65°	189	194	173	193	185
67.5°	162	160	155	155	153
70°	137	135	130	128	124
72.5°	115	111	108	103	100
75°	95	93	88	84	83
77.5°	75	74	67	66	62
80°	55	54	48	46	43
82.5°	40	39	33	31	28
85°	24	23	18	17	14
87.5°	10	9	6	6	5
90°	0	0	0	0	0
92.5°	27	73	57	36	27
95°	73	207	183	175	153
97.5°	130	356	340	315	311
100°	187	509	496	488	470
102.5°	250	597	693	640	630
105°	313	654	866	832	810
107.5°	383	710	1044	1045	1031
110°	445	750	1146	1236	1219



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	506	782	1209	1408	1400
115°	572	805	1245	1512	1555
117.5°	628	830	1270	1567	1639
120°	685	863	1293	1590	1693
122.5°	740	892	1302	1588	1700
125°	791	927	1305	1591	1700
127.5°	846	959	1293	1585	1695
130°	897	999	1281	1575	1678
132.5°	946	1032	1272	1551	1649
135°	993	1068	1271	1518	1612
137.5°	1035	1106	1268	1473	1561
140°	1081	1144	1270	1442	1512
142.5°	1119	1179	1275	1411	1476
145°	1159	1212	1283	1387	1424
147.5°	1193	1242	1294	1370	1410
150°	1227	1270	1307	1361	1386
152.5°	1254	1292	1321	1355	1374
155°	1282	1316	1340	1357	1370
157.5°	1307	1333	1359	1363	1368
160°	1326	1349	1372	1374	1377
162.5°	1346	1360	1382	1385	1388
165°	1360	1370	1387	1391	1396
167.5°	1371	1376	1387	1391	1396
170°	1381	1384	1387	1389	1396
172.5°	1388	1390	1385	1382	1388
175°	1390	1391	1383	1376	1379
177.5°	1394	1394	1385	1377	1378
180°	1385	1385	1385	1385	1385

(END OF REPORT)