

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: ITL63570

Luminaire Tested: **VB-SW-3T5-1C-120**

Issue Date: 3/3/2020

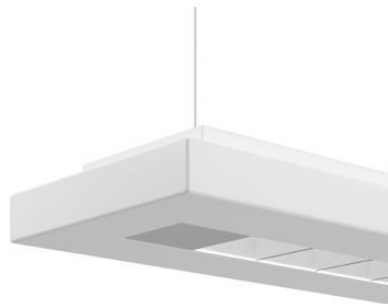
**Test Information**

Test Method: LM-41-14  
Report Number: ITL63570  
Test Lab: INDEPENDENT TESTING LABORATORIES, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: VB-SW-3T5-1C-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: THREE 54-WATT T-5 SYLVANIA FP54/841/HO/ECO LINEAR FLUORESCENTS.  
Ballast/Driver: TWO UNIVERSAL B254PUNV-D

**Summary**

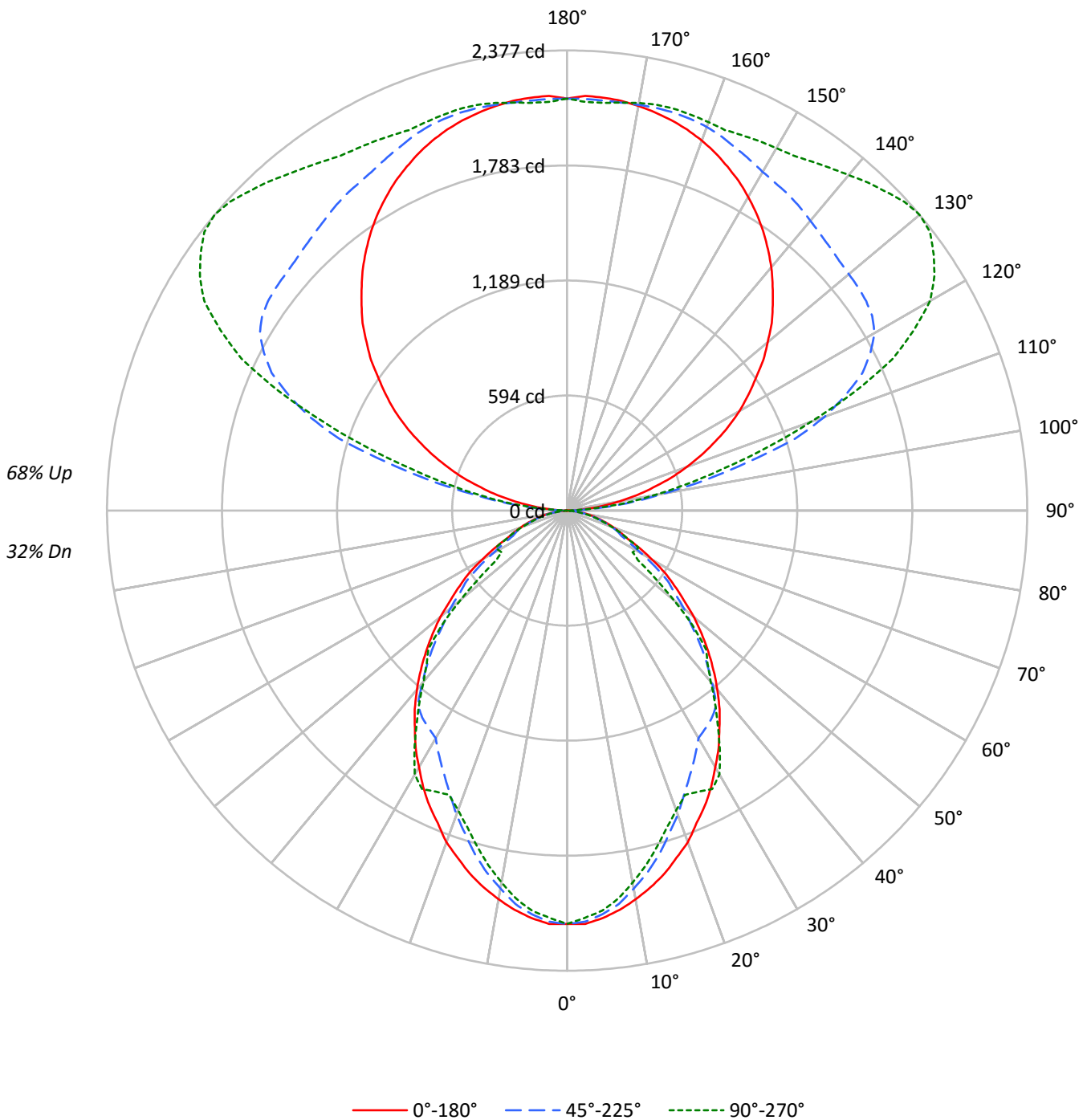
Lumens per Lamp: 4450 (3 lamps)  
Luminaire Lumens: 12818.9 lumens  
Efficiency: 96.0%  
Efficacy: 70.7 lumens/watt  
Spacing Criteria (0/90/45): 1.09 / 1.11 / 1.18  
Luminous Opening: Rectangular (W 0.47' x L: 3.99' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 181.3  
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	99	99	99	99	89	89	89	89	70	70	70	54	54	54	38	38	38	31
1	90	87	83	80	81	78	75	72	62	60	58	48	46	45	34	33	33	27
2	83	76	70	66	74	69	64	60	55	52	49	42	40	38	30	29	28	23
3	76	67	60	55	68	61	55	51	49	45	41	38	35	33	27	26	24	20
4	69	59	52	47	62	54	48	43	43	39	36	34	31	28	25	23	21	17
5	64	53	46	40	57	48	42	37	39	34	31	30	27	25	22	20	19	15
6	59	48	40	35	53	43	37	32	35	30	27	28	24	22	20	18	17	14
7	54	43	36	31	49	39	33	28	32	27	24	25	22	19	19	17	15	12
8	50	39	32	27	45	36	29	25	29	24	21	23	20	17	17	15	13	11
9	47	36	29	24	42	32	26	22	27	22	19	21	18	16	16	14	12	10
10	44	33	26	22	39	30	24	20	25	20	17	20	16	14	15	13	11	9

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

	0°	45°	90°
0°	12289	12289	12289
5°	12208	12093	11989
10°	11917	11584	11397
15°	11572	10952	10702
20°	11166	10235	10088
25°	10688	9552	10174
30°	10175	9019	10461
35°	9633	9170	9528
40°	9069	8761	8671
45°	8392	7879	8254
50°	7656	7047	6447
55°	6794	6372	4476
60°	5836	5088	4708
65°	4699	4222	4712
70°	4291	4123	4106
75°	3914	3647	3536
80°	3414	3049	2784
85°	2708	2113	1519



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	196.6	1.5	1.5
10°-20°	520.2	4.1	3.9
20°-30°	725.9	5.7	5.4
30°-40°	822.3	6.4	6.2
40°-50°	745.9	5.8	5.6
50°-60°	534.8	4.2	4.0
60°-70°	339.4	2.6	2.5
70°-80°	176.2	1.4	1.3
80°-90°	40.7	0.3	0.3
90°-100°	216.6	1.7	1.6
100°-110°	901.8	7.0	6.8
110°-120°	1481.7	11.6	11.1
120°-130°	1621.8	12.7	12.1
130°-140°	1489.6	11.6	11.2
140°-150°	1249.9	9.8	9.4
150°-160°	952.7	7.4	7.1
160°-170°	599.7	4.7	4.5
170°-180°	203.1	1.6	1.5
0°-30°	1442.7	11.3	10.8
0°-40°	2265.0	17.7	17.0
0°-60°	3545.7	27.7	26.6
0°-90°	4102.0	32.0	30.7
90°-120°	2600.1	20.3	19.5
90°-150°	6961.4	54.3	52.1
90°-180°	8717.0	68.0	65.3
0°-180°	12818.9	100.0	96.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2135	2135	2135	2135	2135	
5°	2113	2110	2093	2086	2075	199
15°	1942	1906	1838	1801	1796	546
25°	1683	1596	1504	1526	1602	773
35°	1371	1261	1305	1352	1356	858
45°	1031	928	968	958	1014	795
55°	677	663	635	505	446	606
65°	345	355	310	355	346	358
75°	176	171	164	161	159	186
85°	41	38	32	26	23	46
90°	0	0	0	0	0	8
95°	106	219	181	164	150	122
105°	460	911	964	865	834	489
115°	844	1187	1684	1845	1856	835
125°	1188	1412	1886	2222	2311	1065
135°	1502	1629	1921	2232	2329	1159
145°	1765	1850	1992	2138	2201	1103
155°	1960	2009	2065	2115	2139	904
165°	2087	2094	2128	2144	2148	589
175°	2141	2134	2126	2118	2114	204
180°	2128	2128	2128	2128	2128	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2135	2135	2135	2135	2135
2.5°	2137	2137	2126	2109	2105
5°	2113	2110	2093	2086	2075
7.5°	2080	2068	2050	2029	2022
10°	2039	2022	1982	1958	1950
12.5°	1993	1967	1915	1878	1877
15°	1942	1906	1838	1801	1796
17.5°	1880	1838	1751	1722	1715
20°	1823	1759	1671	1638	1647
22.5°	1747	1682	1582	1568	1590
25°	1683	1596	1504	1526	1602
27.5°	1610	1514	1431	1531	1622
30°	1531	1424	1357	1533	1574
32.5°	1456	1345	1332	1459	1468
35°	1371	1261	1305	1352	1356
37.5°	1293	1170	1266	1233	1255
40°	1207	1091	1166	1140	1154
42.5°	1119	1006	1067	1042	1073
45°	1031	928	968	958	1014
47.5°	942	862	867	900	879
50°	855	798	787	771	720
52.5°	758	740	699	636	568
55°	677	663	635	505	446
57.5°	599	586	539	405	401
60°	507	496	442	378	409
62.5°	425	420	365	372	415
65°	345	355	310	355	346
67.5°	298	293	282	292	296
70°	255	254	245	247	244
72.5°	214	207	202	200	198
75°	176	171	164	161	159
77.5°	136	135	124	125	118
80°	103	99	92	89	84
82.5°	69	69	60	58	50
85°	41	38	32	26	23
87.5°	17	13	7	6	5
90°	0	0	0	0	0
92.5°	38	75	57	38	26
95°	106	219	181	164	150
97.5°	189	401	341	311	307
100°	271	627	504	491	452
102.5°	369	777	731	645	633
105°	460	911	964	865	834
107.5°	562	1013	1235	1134	1080
110°	658	1082	1414	1399	1341



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	750	1143	1556	1662	1613
115°	844	1187	1684	1845	1856
117.5°	938	1235	1766	1987	2019
120°	1027	1294	1833	2095	2165
122.5°	1108	1348	1869	2164	2249
125°	1188	1412	1886	2222	2311
127.5°	1277	1466	1895	2255	2363
130°	1352	1525	1899	2265	2377
132.5°	1434	1577	1908	2255	2362
135°	1502	1629	1921	2232	2329
137.5°	1571	1692	1936	2201	2299
140°	1641	1744	1955	2177	2262
142.5°	1703	1802	1975	2155	2231
145°	1765	1850	1992	2138	2201
147.5°	1820	1894	2005	2131	2174
150°	1871	1939	2020	2129	2162
152.5°	1919	1973	2043	2123	2151
155°	1960	2009	2065	2115	2139
157.5°	2000	2035	2090	2117	2128
160°	2034	2061	2109	2130	2135
162.5°	2063	2078	2121	2137	2142
165°	2087	2094	2128	2144	2148
167.5°	2106	2109	2130	2143	2147
170°	2122	2119	2128	2135	2138
172.5°	2135	2128	2126	2124	2125
175°	2141	2134	2126	2118	2114
177.5°	2144	2137	2128	2117	2113
180°	2128	2128	2128	2128	2128

(END OF REPORT)