

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: 17372

Luminaire Tested: **CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17372  
Test Lab: LUMINAIRE TESTING LABORATORY, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)  
Description: FORMED STEEL HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, FROSTED PLASTIC SIDE ENCLOSURES WITH FROSTED LINEAR PRISMATIC PLASTIC CENTER LENS.  
Light Source: THREE 54 WATT HIGH OUTPUT T5 LINEAR FLUORESCENT LAMPS RATED AT 4400 LUMENS EACH.  
PHILIPS F54T5/835/HO/ALTO  
Ballast/Driver: ONE UNIVERSAL LIGHTING TECHNOLOGIES "ACCU START" B254PUNV-D

**Summary**

Lumens per Lamp: 4400 (3 lamps)  
Luminaire Lumens: 9109.5 lumens  
Efficiency: 69.0%  
Efficacy: 59.4 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.4 / 1.45  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

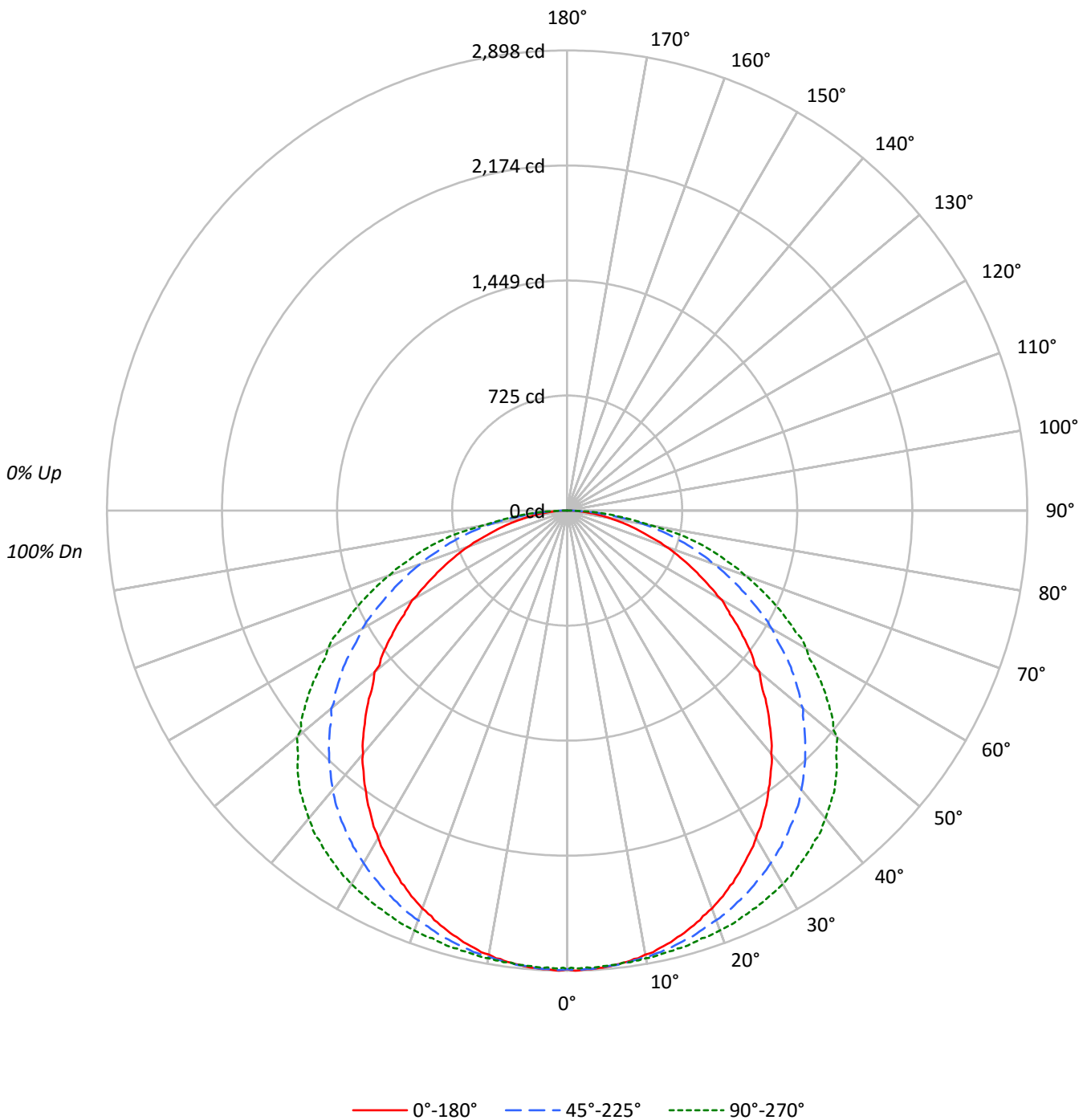
Input Watts (W): 153.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	82	82	82	82	80	80	80	80	77	77	77	73	73	73	70	70	70	69
1	75	71	68	65	73	70	67	64	67	64	62	64	62	60	61	60	58	57
2	68	62	57	52	66	60	56	52	58	54	51	55	52	49	53	51	48	47
3	61	54	48	43	60	53	47	43	51	46	42	49	45	41	47	43	41	39
4	56	47	41	36	54	47	41	36	45	40	36	43	39	35	42	38	35	33
5	51	42	36	31	50	41	35	31	40	35	31	39	34	30	37	33	30	28
6	47	38	32	27	46	37	31	27	36	31	27	35	30	26	34	29	26	25
7	44	34	28	24	43	34	28	24	33	27	23	32	27	23	31	26	23	22
8	41	31	25	21	40	31	25	21	30	25	21	29	24	21	28	24	21	19
9	38	29	23	19	37	28	23	19	27	22	19	27	22	19	26	22	19	17
10	36	26	21	17	35	26	21	17	25	20	17	25	20	17	24	20	17	16

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

	0°	45°	90°
0°	4417	4417	4417
5°	4427	4424	4418
10°	4410	4432	4444
15°	4384	4449	4503
20°	4342	4467	4580
25°	4277	4497	4674
30°	4203	4528	4796
35°	4113	4557	4919
40°	3991	4580	5055
45°	3867	4591	5173
50°	3764	4615	5286
55°	3567	4589	5276
60°	3450	4560	5325
65°	3195	4480	5345
70°	2942	4386	5321
75°	2671	4361	5400
80°	2395	4315	4694
85°	2070	3702	4509



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	273.8	3.0	2.1
10°-20°	792.1	8.7	6.0
20°-30°	1225.3	13.5	9.3
30°-40°	1519.9	16.7	11.5
40°-50°	1622.9	17.8	12.3
50°-60°	1504.9	16.5	11.4
60°-70°	1195.5	13.1	9.1
70°-80°	749.6	8.2	5.7
80°-90°	225.7	2.5	1.7
90°-100°	0.0	0.0	0.0
100°-110°	0.0	0.0	0.0
110°-120°	0.0	0.0	0.0
120°-130°	0.0	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-30°	2291.1	25.2	17.4
0°-40°	3811.0	41.8	28.9
0°-60°	6938.8	76.2	52.6
0°-90°	9109.5	100.0	69.0
90°-120°	0.0	0.0	0.0
90°-150°	0.0	0.0	0.0
90°-180°	0.0	0.0	0.0
0°-180°	9109.5	100.0	69.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2888	2888	2888	2888	2888	
5°	2884	2868	2882	2876	2878	274
15°	2769	2769	2810	2832	2844	780
25°	2535	2563	2665	2740	2770	1168
35°	2203	2269	2441	2584	2635	1376
45°	1788	1890	2123	2318	2392	1379
55°	1338	1457	1721	1913	1979	1197
65°	883	997	1238	1417	1477	875
75°	452	558	738	871	914	481
85°	118	176	211	245	257	129
90°	0	0	0	0	0	6
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	0	0	0
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: 17372

CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2888	2888	2888	2888	2888
0.5°	2895	2881	2892	2879	2879
1°	2898	2884	2894	2884	2884
1.5°	2898	2883	2894	2882	2884
2°	2894	2882	2892	2882	2882
2.5°	2891	2879	2889	2879	2879
3°	2892	2880	2890	2882	2884
3.5°	2891	2880	2889	2882	2882
4°	2888	2877	2887	2879	2881
4.5°	2887	2872	2882	2876	2878
5°	2884	2868	2882	2876	2878
5.5°	2882	2866	2879	2874	2876
6°	2876	2866	2879	2874	2876
6.5°	2875	2865	2877	2873	2876
7°	2869	2860	2871	2868	2869
7.5°	2868	2856	2873	2870	2869
8°	2863	2852	2869	2867	2872
8.5°	2855	2845	2863	2863	2866
9°	2855	2844	2862	2863	2868
9.5°	2847	2838	2857	2859	2865
10°	2840	2831	2854	2856	2862
10.5°	2837	2829	2854	2858	2865
11°	2833	2825	2848	2855	2862
11.5°	2823	2820	2844	2852	2859
12°	2815	2812	2842	2850	2856
12.5°	2810	2804	2834	2844	2852
13°	2801	2799	2829	2842	2850
13.5°	2795	2794	2827	2842	2850
14°	2785	2783	2820	2836	2844
14.5°	2775	2778	2815	2834	2847
15°	2769	2769	2810	2832	2844
15.5°	2760	2762	2802	2826	2842
16°	2748	2754	2799	2823	2837
16.5°	2739	2746	2794	2821	2834
17°	2731	2738	2787	2817	2831
17.5°	2718	2723	2778	2810	2824
18°	2712	2716	2772	2806	2827
18.5°	2693	2707	2763	2802	2824
19°	2686	2697	2759	2800	2821
19.5°	2674	2687	2750	2794	2817
20°	2668	2680	2745	2792	2814
20.5°	2654	2671	2740	2787	2811
21°	2642	2657	2731	2784	2807
21.5°	2630	2649	2725	2779	2805
22°	2619	2636	2717	2775	2802



TEST NUMBER: 17372

CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
22.5°	2604	2628	2709	2770	2796
23°	2591	2614	2700	2766	2791
23.5°	2575	2601	2689	2756	2783
24°	2568	2592	2684	2752	2783
24.5°	2549	2576	2672	2746	2776
25°	2535	2563	2665	2740	2770
25.5°	2523	2554	2657	2737	2769
26°	2505	2540	2646	2727	2761
26.5°	2491	2525	2637	2720	2757
27°	2475	2515	2625	2713	2751
27.5°	2459	2501	2616	2708	2744
28°	2444	2484	2608	2702	2738
28.5°	2431	2470	2597	2694	2735
29°	2417	2459	2587	2688	2729
29.5°	2398	2444	2575	2678	2721
30°	2380	2429	2564	2670	2716
30.5°	2360	2412	2552	2663	2709
31°	2347	2398	2543	2654	2700
31.5°	2334	2388	2530	2649	2699
32°	2313	2367	2517	2638	2687
32.5°	2294	2353	2509	2633	2683
33°	2274	2334	2492	2622	2671
33.5°	2257	2318	2481	2611	2662
34°	2241	2302	2471	2604	2654
34.5°	2222	2285	2459	2591	2646
35°	2203	2269	2441	2584	2635
35.5°	2181	2252	2429	2575	2630
36°	2161	2234	2418	2567	2620
36.5°	2145	2217	2403	2551	2607
37°	2124	2198	2385	2541	2596
37.5°	2104	2182	2372	2532	2593
38°	2083	2162	2361	2520	2583
38.5°	2066	2146	2346	2507	2572
39°	2047	2126	2327	2495	2555
39.5°	2028	2110	2313	2487	2543
40°	1999	2088	2294	2464	2532
40.5°	1982	2068	2278	2451	2517
41°	1964	2049	2263	2437	2505
41.5°	1942	2030	2245	2425	2492
42°	1918	2009	2227	2411	2481
42.5°	1899	1990	2210	2396	2465
43°	1875	1970	2193	2378	2453
43.5°	1852	1953	2177	2365	2443
44°	1833	1929	2158	2350	2425
44.5°	1810	1908	2139	2334	2408



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CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
45°	1788	1890	2123	2318	2392
45.5°	1766	1866	2102	2303	2377
46°	1743	1846	2084	2287	2360
46.5°	1723	1827	2065	2270	2341
47°	1693	1804	2046	2252	2322
47.5°	1670	1779	2026	2233	2299
48°	1650	1758	2003	2215	2281
48.5°	1630	1736	1987	2196	2267
49°	1614	1717	1967	2180	2249
49.5°	1598	1703	1955	2164	2235
50°	1582	1686	1940	2150	2222
50.5°	1532	1649	1905	2110	2175
51°	1515	1630	1885	2089	2156
51.5°	1499	1614	1873	2074	2142
52°	1478	1589	1852	2053	2120
52.5°	1455	1568	1827	2032	2098
53°	1430	1545	1806	2006	2070
53.5°	1407	1522	1783	1983	2053
54°	1385	1496	1765	1962	2022
54.5°	1357	1472	1739	1935	2005
55°	1338	1457	1721	1913	1979
55.5°	1315	1429	1696	1887	1951
56°	1295	1406	1674	1866	1929
56.5°	1267	1377	1645	1840	1899
57°	1243	1353	1622	1812	1870
57.5°	1216	1329	1595	1788	1854
58°	1203	1312	1568	1762	1827
58.5°	1179	1292	1548	1742	1793
59°	1161	1268	1526	1715	1774
59.5°	1144	1249	1510	1699	1757
60°	1128	1232	1491	1681	1741
60.5°	1087	1203	1465	1656	1718
61°	1068	1186	1448	1630	1699
61.5°	1045	1164	1416	1606	1675
62°	1017	1140	1391	1579	1631
62.5°	995	1117	1366	1546	1606
63°	975	1088	1339	1524	1582
63.5°	947	1063	1310	1494	1552
64°	925	1042	1285	1466	1526
64.5°	908	1021	1263	1443	1503
65°	883	997	1238	1417	1477
65.5°	856	973	1209	1386	1446
66°	838	952	1189	1361	1421
66.5°	816	930	1163	1335	1392
67°	794	909	1137	1307	1365





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CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	772	889	1109	1283	1336
68°	749	861	1085	1255	1308
68.5°	726	839	1061	1227	1280
69°	706	820	1037	1200	1251
69.5°	688	800	1009	1172	1222
70°	658	773	981	1141	1190
70.5°	639	752	958	1115	1164
71°	623	735	940	1093	1145
71.5°	596	713	917	1063	1114
72°	568	686	886	1036	1081
72.5°	548	665	859	1005	1050
73°	529	640	836	982	1026
73.5°	507	620	816	957	1004
74°	488	597	789	928	970
74.5°	467	578	766	901	947
75°	452	558	738	871	914
75.5°	433	533	717	846	888
76°	414	512	690	816	853
76.5°	397	493	666	788	824
77°	376	472	642	760	790
77.5°	360	451	616	732	759
78°	342	433	590	698	719
78.5°	320	414	566	668	681
79°	304	395	537	629	627
79.5°	289	376	514	590	573
80°	272	357	490	538	533
80.5°	256	340	465	490	500
81°	238	322	437	458	468
81.5°	221	303	406	425	438
82°	207	284	374	395	411
82.5°	194	265	339	369	382
83°	178	249	308	341	351
83.5°	164	231	280	315	325
84°	150	212	254	292	306
84.5°	133	196	232	269	285
85°	118	176	211	245	257
85.5°	106	156	190	220	226
86°	93	134	171	195	196
86.5°	81	112	150	167	168
87°	68	96	126	138	140
87.5°	55	79	102	110	111
88°	40	63	76	84	83
88.5°	28	45	55	60	57
89°	16	28	35	34	35
89.5°	6	14	15	11	14



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CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
90°	0	0	0	0	0
90.5°	0	0	0	0	0
91°	0	0	0	0	0
91.5°	0	0	0	0	0
92°	0	0	0	0	0
92.5°	0	0	0	0	0
93°	0	0	0	0	0
93.5°	0	0	0	0	0
94°	0	0	0	0	0
94.5°	0	0	0	0	0
95°	0	0	0	0	0
95.5°	0	0	0	0	0
96°	0	0	0	0	0
96.5°	0	0	0	0	0
97°	0	0	0	0	0
97.5°	0	0	0	0	0
98°	0	0	0	0	0
98.5°	0	0	0	0	0
99°	0	0	0	0	0
99.5°	0	0	0	0	0
100°	0	0	0	0	0
100.5°	0	0	0	0	0
101°	0	0	0	0	0
101.5°	0	0	0	0	0
102°	0	0	0	0	0
102.5°	0	0	0	0	0
103°	0	0	0	0	0
103.5°	0	0	0	0	0
104°	0	0	0	0	0
104.5°	0	0	0	0	0
105°	0	0	0	0	0
105.5°	0	0	0	0	0
106°	0	0	0	0	0
106.5°	0	0	0	0	0
107°	0	0	0	0	0
107.5°	0	0	0	0	0
108°	0	0	0	0	0
108.5°	0	0	0	0	0
109°	0	0	0	0	0
109.5°	0	0	0	0	0
110°	0	0	0	0	0
110.5°	0	0	0	0	0
111°	0	0	0	0	0
111.5°	0	0	0	0	0
112°	0	0	0	0	0



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CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	0
113°	0	0	0	0	0
113.5°	0	0	0	0	0
114°	0	0	0	0	0
114.5°	0	0	0	0	0
115°	0	0	0	0	0
115.5°	0	0	0	0	0
116°	0	0	0	0	0
116.5°	0	0	0	0	0
117°	0	0	0	0	0
117.5°	0	0	0	0	0
118°	0	0	0	0	0
118.5°	0	0	0	0	0
119°	0	0	0	0	0
119.5°	0	0	0	0	0
120°	0	0	0	0	0
120.5°	0	0	0	0	0
121°	0	0	0	0	0
121.5°	0	0	0	0	0
122°	0	0	0	0	0
122.5°	0	0	0	0	0
123°	0	0	0	0	0
123.5°	0	0	0	0	0
124°	0	0	0	0	0
124.5°	0	0	0	0	0
125°	0	0	0	0	0
125.5°	0	0	0	0	0
126°	0	0	0	0	0
126.5°	0	0	0	0	0
127°	0	0	0	0	0
127.5°	0	0	0	0	0
128°	0	0	0	0	0
128.5°	0	0	0	0	0
129°	0	0	0	0	0
129.5°	0	0	0	0	0
130°	0	0	0	0	0
130.5°	0	0	0	0	0
131°	0	0	0	0	0
131.5°	0	0	0	0	0
132°	0	0	0	0	0
132.5°	0	0	0	0	0
133°	0	0	0	0	0
133.5°	0	0	0	0	0
134°	0	0	0	0	0
134.5°	0	0	0	0	0



TEST NUMBER: 17372

CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
135°	0	0	0	0	0
135.5°	0	0	0	0	0
136°	0	0	0	0	0
136.5°	0	0	0	0	0
137°	0	0	0	0	0
137.5°	0	0	0	0	0
138°	0	0	0	0	0
138.5°	0	0	0	0	0
139°	0	0	0	0	0
139.5°	0	0	0	0	0
140°	0	0	0	0	0
140.5°	0	0	0	0	0
141°	0	0	0	0	0
141.5°	0	0	0	0	0
142°	0	0	0	0	0
142.5°	0	0	0	0	0
143°	0	0	0	0	0
143.5°	0	0	0	0	0
144°	0	0	0	0	0
144.5°	0	0	0	0	0
145°	0	0	0	0	0
145.5°	0	0	0	0	0
146°	0	0	0	0	0
146.5°	0	0	0	0	0
147°	0	0	0	0	0
147.5°	0	0	0	0	0
148°	0	0	0	0	0
148.5°	0	0	0	0	0
149°	0	0	0	0	0
149.5°	0	0	0	0	0
150°	0	0	0	0	0
150.5°	0	0	0	0	0
151°	0	0	0	0	0
151.5°	0	0	0	0	0
152°	0	0	0	0	0
152.5°	0	0	0	0	0
153°	0	0	0	0	0
153.5°	0	0	0	0	0
154°	0	0	0	0	0
154.5°	0	0	0	0	0
155°	0	0	0	0	0
155.5°	0	0	0	0	0
156°	0	0	0	0	0
156.5°	0	0	0	0	0
157°	0	0	0	0	0



TEST NUMBER: 17372

CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
157.5°	0	0	0	0	0
158°	0	0	0	0	0
158.5°	0	0	0	0	0
159°	0	0	0	0	0
159.5°	0	0	0	0	0
160°	0	0	0	0	0
160.5°	0	0	0	0	0
161°	0	0	0	0	0
161.5°	0	0	0	0	0
162°	0	0	0	0	0
162.5°	0	0	0	0	0
163°	0	0	0	0	0
163.5°	0	0	0	0	0
164°	0	0	0	0	0
164.5°	0	0	0	0	0
165°	0	0	0	0	0
165.5°	0	0	0	0	0
166°	0	0	0	0	0
166.5°	0	0	0	0	0
167°	0	0	0	0	0
167.5°	0	0	0	0	0
168°	0	0	0	0	0
168.5°	0	0	0	0	0
169°	0	0	0	0	0
169.5°	0	0	0	0	0
170°	0	0	0	0	0
170.5°	0	0	0	0	0
171°	0	0	0	0	0
171.5°	0	0	0	0	0
172°	0	0	0	0	0
172.5°	0	0	0	0	0
173°	0	0	0	0	0
173.5°	0	0	0	0	0
174°	0	0	0	0	0
174.5°	0	0	0	0	0
175°	0	0	0	0	0
175.5°	0	0	0	0	0
176°	0	0	0	0	0
176.5°	0	0	0	0	0
177°	0	0	0	0	0
177.5°	0	0	0	0	0
178°	0	0	0	0	0
178.5°	0	0	0	0	0
179°	0	0	0	0	0
179.5°	0	0	0	0	0



TEST NUMBER: 17372

CATALOG NUMBER: CORELITE R3-WL-3T5-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	0	0	0	0	0

(END OF REPORT)