

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: 17360

Luminaire Tested: **CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17360  
Test Lab: LUMINAIRE TESTING LABORATORY, INC.  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)  
Description: FORMED STEEL HOUSING, FORMED WHITE ENAMEL ALUMINUM REFLECTOR, FROSTED PLASTIC SIDE ENCLOSURES WITH 41 CELL, 3/8" DEEP, FORMED WHITE PLASTIC CENTER LOUVER ABOVE CLEAR LINEAR PRISMATIC PLASTIC 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: 8633.1 lumens  
Efficiency: 65.4%  
Efficacy: 56.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.39 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

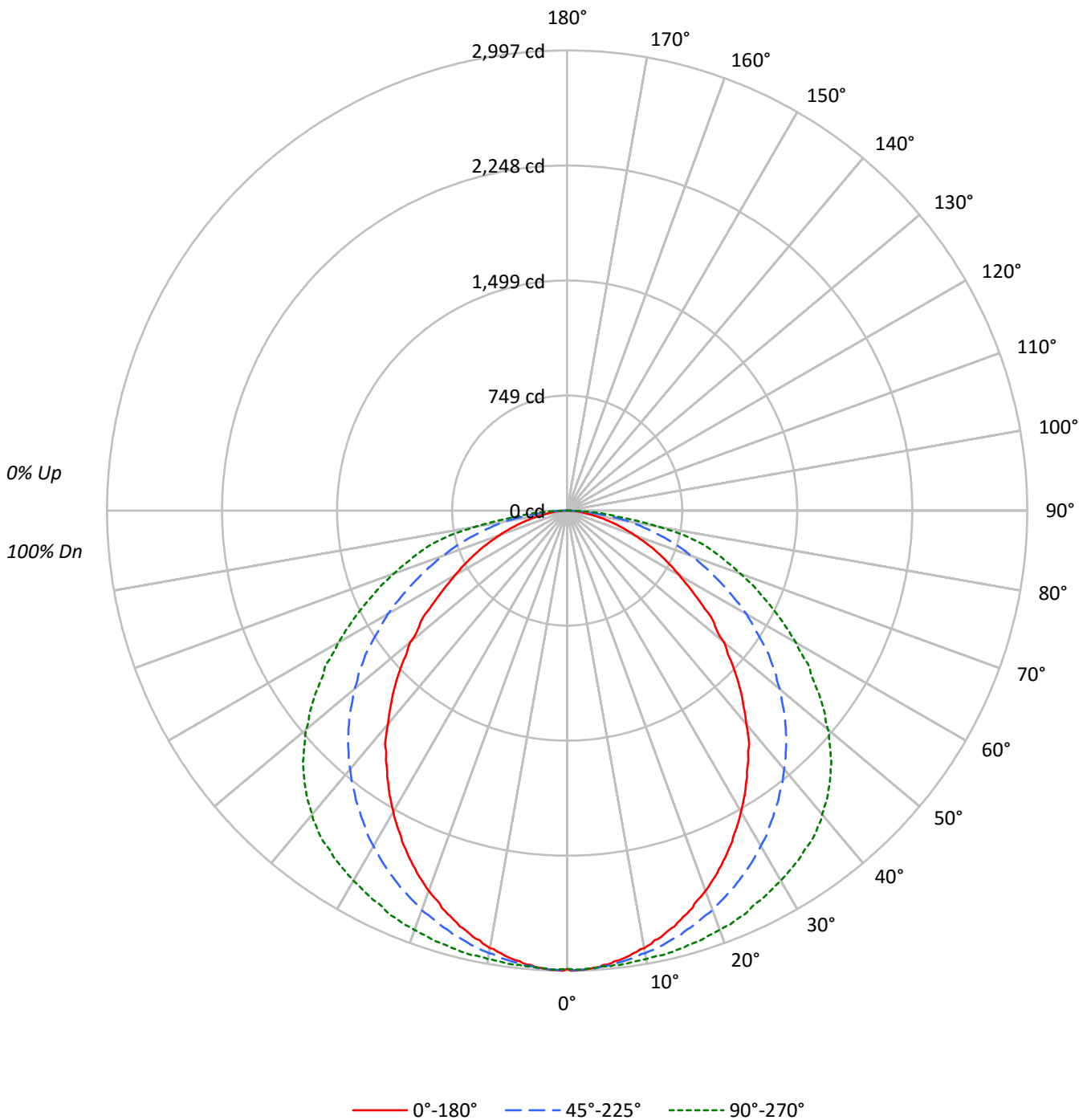
Input Watts (W): 152.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	78	78	78	78	76	76	76	76	73	73	73	70	70	70	67	67	67	65
1	71	68	65	62	69	66	64	61	63	61	59	61	59	57	59	57	56	54
2	64	59	54	50	63	58	53	50	55	52	49	53	50	48	51	49	47	45
3	59	52	46	42	57	51	46	41	49	44	41	47	43	40	45	42	39	38
4	54	46	40	35	52	45	39	35	43	38	35	42	37	34	40	37	34	32
5	49	41	35	30	48	40	34	30	39	34	30	37	33	30	36	32	29	28
6	45	37	31	26	44	36	30	26	35	30	26	34	29	26	33	29	26	24
7	42	33	27	23	41	33	27	23	32	27	23	31	26	23	30	26	23	21
8	39	30	25	21	38	30	24	21	29	24	21	28	24	20	27	23	20	19
9	37	28	22	19	36	27	22	19	27	22	19	26	22	18	25	21	18	17
10	34	26	20	17	34	25	20	17	25	20	17	24	20	17	23	20	17	16

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

	0°	45°	90°
0°	4566	4566	4566
5°	4556	4568	4575
10°	4492	4545	4607
15°	4400	4530	4663
20°	4288	4506	4729
25°	4156	4480	4806
30°	3998	4455	4916
35°	3820	4419	5033
40°	3625	4390	5156
45°	3404	4358	5249
50°	3171	4304	5279
55°	2866	4231	5252
60°	2584	4129	5261
65°	2363	3970	5272
70°	2093	3845	5374
75°	1826	3711	5666
80°	1480	3611	5399
85°	1123	2527	4316



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	282.0	3.3	2.1
10°-20°	805.5	9.3	6.1
20°-30°	1221.8	14.2	9.3
30°-40°	1482.2	17.2	11.2
40°-50°	1544.0	17.9	11.7
50°-60°	1387.1	16.1	10.5
60°-70°	1063.1	12.3	8.1
70°-80°	664.3	7.7	5.0
80°-90°	183.2	2.1	1.4
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°	2309.2	26.7	17.5
0°-40°	3791.4	43.9	28.7
0°-60°	6722.5	77.9	50.9
0°-90°	8633.1	100.0	65.4
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°	8633.1	100.0	65.4

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2986	2986	2986	2986	2986	
5°	2968	2958	2976	2975	2980	281
15°	2779	2789	2861	2918	2945	782
25°	2463	2504	2655	2787	2848	1133
35°	2046	2141	2367	2589	2696	1281
45°	1574	1704	2015	2295	2427	1212
55°	1075	1235	1587	1880	1970	964
65°	653	781	1097	1352	1457	646
75°	309	401	628	865	959	328
85°	64	106	144	214	246	74
90°	0	0	0	0	0	3
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



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CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2986	2986	2986	2986	2986
0.5°	2997	2985	2992	2984	2987
1°	2996	2982	2993	2985	2989
1.5°	2993	2981	2992	2986	2992
2°	2993	2979	2992	2984	2990
2.5°	2989	2979	2990	2983	2987
3°	2986	2974	2988	2982	2984
3.5°	2983	2971	2987	2979	2984
4°	2980	2967	2983	2979	2981
4.5°	2970	2960	2976	2975	2977
5°	2968	2958	2976	2975	2980
5.5°	2963	2954	2972	2974	2980
6°	2952	2945	2966	2968	2974
6.5°	2949	2941	2963	2967	2980
7°	2942	2934	2959	2964	2977
7.5°	2935	2928	2953	2964	2976
8°	2926	2918	2948	2962	2973
8.5°	2916	2915	2945	2962	2970
9°	2909	2906	2939	2957	2968
9.5°	2896	2895	2929	2949	2965
10°	2893	2891	2927	2950	2967
10.5°	2883	2876	2920	2945	2961
11°	2874	2872	2917	2944	2961
11.5°	2856	2861	2907	2938	2958
12°	2852	2853	2904	2938	2962
12.5°	2842	2841	2896	2933	2960
13°	2827	2830	2887	2928	2955
13.5°	2815	2819	2879	2926	2954
14°	2804	2809	2871	2923	2949
14.5°	2797	2801	2864	2921	2947
15°	2779	2789	2861	2918	2945
15.5°	2766	2775	2848	2907	2938
16°	2750	2765	2837	2901	2936
16.5°	2740	2751	2832	2897	2934
17°	2725	2736	2822	2889	2932
17.5°	2715	2729	2818	2888	2929
18°	2690	2708	2803	2878	2923
18.5°	2675	2692	2793	2870	2916
19°	2664	2679	2784	2866	2915
19.5°	2651	2671	2778	2864	2910
20°	2635	2657	2769	2858	2906
20.5°	2621	2645	2756	2851	2902
21°	2603	2629	2745	2846	2899
21.5°	2587	2614	2733	2838	2897
22°	2571	2600	2724	2832	2890



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CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
22.5°	2554	2583	2712	2827	2884
23°	2535	2568	2700	2818	2878
23.5°	2519	2552	2690	2812	2875
24°	2498	2537	2679	2803	2869
24.5°	2482	2522	2666	2796	2859
25°	2463	2504	2655	2787	2848
25.5°	2443	2487	2641	2777	2840
26°	2427	2473	2631	2770	2836
26.5°	2408	2458	2618	2758	2832
27°	2383	2437	2605	2746	2824
27.5°	2363	2421	2592	2736	2818
28°	2346	2403	2579	2729	2810
28.5°	2327	2385	2565	2720	2803
29°	2306	2367	2549	2713	2795
29.5°	2287	2353	2537	2706	2789
30°	2264	2330	2523	2694	2784
30.5°	2245	2312	2509	2682	2775
31°	2223	2295	2497	2672	2769
31.5°	2203	2274	2483	2663	2759
32°	2183	2256	2466	2656	2753
32.5°	2161	2238	2447	2646	2744
33°	2136	2217	2431	2639	2736
33.5°	2114	2199	2416	2624	2730
34°	2095	2179	2402	2614	2720
34.5°	2068	2160	2382	2605	2708
35°	2046	2141	2367	2589	2696
35.5°	2027	2122	2352	2578	2689
36°	2008	2105	2338	2568	2682
36.5°	1982	2083	2320	2554	2676
37°	1960	2063	2300	2540	2664
37.5°	1944	2041	2285	2530	2654
38°	1926	2019	2271	2517	2640
38.5°	1900	1996	2255	2507	2626
39°	1870	1977	2235	2495	2616
39.5°	1845	1957	2216	2477	2602
40°	1816	1927	2199	2462	2583
40.5°	1793	1907	2184	2447	2570
41°	1769	1886	2164	2434	2554
41.5°	1743	1863	2147	2418	2542
42°	1718	1840	2127	2402	2529
42.5°	1695	1817	2110	2384	2513
43°	1672	1795	2092	2366	2495
43.5°	1649	1773	2072	2350	2479
44°	1625	1750	2056	2332	2463
44.5°	1598	1724	2033	2314	2444



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CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
45°	1574	1704	2015	2295	2427
45.5°	1550	1681	1993	2277	2407
46°	1522	1657	1973	2262	2391
46.5°	1499	1636	1955	2244	2372
47°	1472	1611	1932	2220	2347
47.5°	1446	1586	1913	2205	2328
48°	1416	1560	1887	2180	2305
48.5°	1393	1540	1867	2159	2283
49°	1376	1518	1847	2137	2261
49.5°	1356	1501	1828	2118	2244
50°	1333	1477	1809	2096	2219
50.5°	1289	1442	1782	2069	2190
51°	1263	1419	1758	2044	2165
51.5°	1244	1401	1742	2028	2148
52°	1222	1380	1724	2007	2127
52.5°	1208	1355	1697	1984	2100
53°	1189	1334	1675	1959	2075
53.5°	1167	1315	1652	1938	2049
54°	1138	1290	1633	1922	2025
54.5°	1101	1266	1612	1904	1995
55°	1075	1235	1587	1880	1970
55.5°	1051	1215	1558	1847	1944
56°	1027	1187	1535	1817	1916
56.5°	1001	1163	1509	1791	1899
57°	979	1143	1484	1762	1884
57.5°	956	1111	1457	1735	1860
58°	933	1092	1435	1709	1820
58.5°	905	1071	1414	1683	1794
59°	885	1052	1393	1657	1766
59.5°	861	1033	1369	1635	1742
60°	845	1014	1350	1610	1720
60.5°	824	979	1319	1584	1695
61°	803	959	1295	1560	1666
61.5°	787	941	1274	1539	1644
62°	764	914	1245	1511	1614
62.5°	746	891	1219	1483	1590
63°	726	869	1195	1456	1563
63.5°	709	847	1171	1430	1537
64°	690	825	1147	1406	1510
64.5°	672	802	1121	1379	1484
65°	653	781	1097	1352	1457
65.5°	636	760	1073	1326	1432
66°	620	741	1048	1302	1406
66.5°	597	720	1025	1274	1379
67°	578	698	1001	1250	1355





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CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	557	680	981	1227	1330
68°	538	661	954	1202	1310
68.5°	520	638	931	1178	1279
69°	503	618	909	1152	1254
69.5°	485	599	885	1126	1228
70°	468	580	860	1100	1202
70.5°	453	556	834	1072	1174
71°	437	539	816	1053	1155
71.5°	420	521	793	1029	1129
72°	401	502	770	1005	1100
72.5°	386	486	748	981	1077
73°	370	467	725	958	1058
73.5°	352	451	701	934	1033
74°	337	434	676	909	1007
74.5°	324	417	657	888	987
75°	309	401	628	865	959
75.5°	293	386	606	842	937
76°	277	369	586	818	909
76.5°	263	353	559	793	882
77°	250	338	538	767	847
77.5°	236	323	515	739	816
78°	222	309	493	709	783
78.5°	207	293	473	674	745
79°	193	277	450	636	695
79.5°	180	262	430	599	649
80°	168	249	410	554	613
80.5°	156	235	387	515	560
81°	145	219	361	476	521
81.5°	134	205	330	435	470
82°	123	191	302	397	423
82.5°	112	177	268	354	377
83°	102	163	240	315	340
83.5°	92	150	216	282	317
84°	83	136	194	259	290
84.5°	74	120	165	238	266
85°	64	106	144	214	246
85.5°	57	91	127	197	229
86°	48	75	110	176	198
86.5°	40	59	96	150	163
87°	32	47	81	122	131
87.5°	25	36	65	97	101
88°	18	26	47	70	73
88.5°	12	18	31	43	46
89°	8	11	17	20	20
89.5°	3	5	5	4	5



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**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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**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: 17360

CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**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: 17360

CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**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: 17360

CATALOG NUMBER: CORELITE R3-WB-3T5-1C-UNV-24-T1 (MICRO BAFFLE)

**CANDELA DISTRIBUTION (continued):**

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

(END OF REPORT)