

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: 17371

Luminaire Tested: **CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: 17371  
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-3T8-1C-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 32 WATT T8 LINEAR FLUORESCENT LAMPS RATED AT 2850 LUMENS  
EACH.  
PHILIPS F32T8/835/ALTO  
Ballast/Driver: ONE UNIVERSAL LIGHTING TECHNOLOGIES "TRIAD" B332IUNVHP-A

**Summary**

Lumens per Lamp: 2850 (3 lamps)  
Luminaire Lumens: 6209.4 lumens  
Efficiency: 72.6%  
Efficacy: 76.0 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.41 / 1.45  
Luminous Opening: Rectangular (W 1.8' x L: 3.91' x H: 0')  
CIE Type: Direct

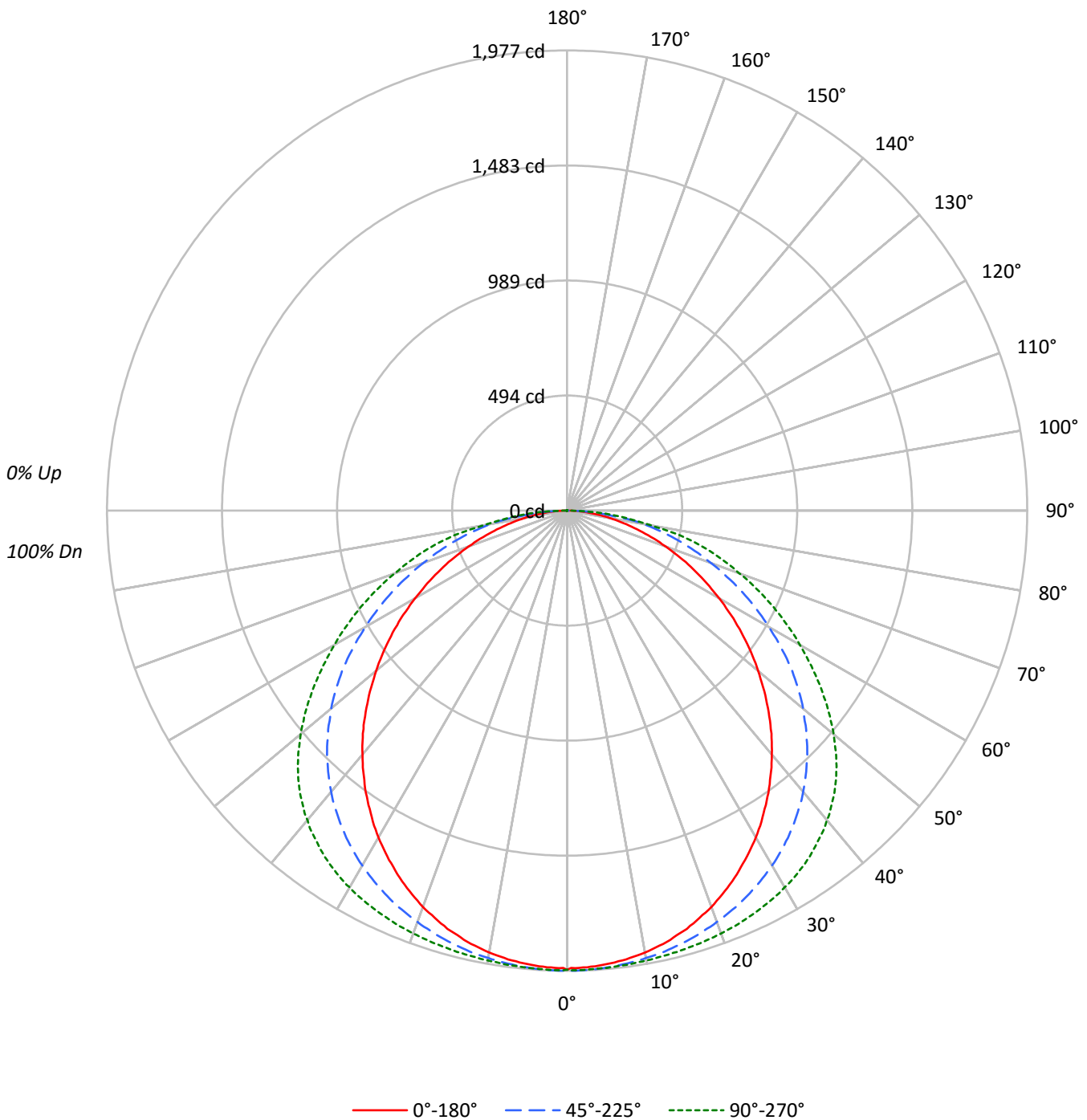
Input Watts (W): 81.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	86	86	86	86	84	84	84	84	81	81	81	77	77	77	74	74	74	73
1	79	75	72	69	77	73	70	68	70	68	65	67	65	63	65	63	61	60
2	71	65	60	55	69	63	59	55	61	57	53	58	55	52	56	53	51	49
3	65	57	51	46	63	56	50	45	53	48	44	51	47	44	49	46	43	41
4	59	50	43	38	57	49	43	38	47	42	38	45	41	37	44	40	37	35
5	54	45	38	33	53	44	37	33	42	37	32	41	36	32	39	35	32	30
6	50	40	33	29	49	39	33	28	38	32	28	37	32	28	36	31	28	26
7	46	36	30	25	45	36	29	25	34	29	25	33	28	25	32	28	24	23
8	43	33	27	22	42	32	26	22	31	26	22	31	26	22	30	25	22	20
9	40	30	24	20	39	30	24	20	29	24	20	28	23	20	27	23	20	18
10	38	28	22	18	37	27	22	18	27	22	18	26	21	18	25	21	18	16

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

	0°	45°	90°
0°	3017	3017	3017
5°	3003	3024	3027
10°	2994	3031	3048
15°	2975	3045	3089
20°	2949	3061	3147
25°	2911	3084	3218
30°	2862	3108	3300
35°	2802	3131	3390
40°	2731	3150	3466
45°	2649	3155	3534
50°	2548	3150	3557
55°	2440	3122	3551
60°	2309	3065	3536
65°	2171	3007	3535
70°	2008	2933	3519
75°	1843	2907	3575
80°	1647	2915	3214
85°	1439	2544	3123



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	187.1	3.0	2.2
10°-20°	541.9	8.7	6.3
20°-30°	840.0	13.5	9.8
30°-40°	1043.2	16.8	12.2
40°-50°	1112.5	17.9	13.0
50°-60°	1023.3	16.5	12.0
60°-70°	801.0	12.9	9.4
70°-80°	502.3	8.1	5.9
80°-90°	156.2	2.5	1.8
90°-100°	0.1	0.0	0.0
100°-110°	0.1	0.0	0.0
110°-120°	0.2	0.0	0.0
120°-130°	0.1	0.0	0.0
130°-140°	0.4	0.0	0.0
140°-150°	0.4	0.0	0.0
150°-160°	0.3	0.0	0.0
160°-170°	0.2	0.0	0.0
170°-180°	0.1	0.0	0.0
0°-30°	1569.0	25.3	18.4
0°-40°	2612.1	42.1	30.6
0°-60°	4747.9	76.5	55.5
0°-90°	6207.4	100.0	72.6
90°-120°	0.4	0.0	0.0
90°-150°	1.4	0.0	0.0
90°-180°	2.0	0.0	0.0
0°-180°	6209.4	100.0	72.6

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1973	1973	1973	1973	1973	
5°	1956	1960	1970	1968	1972	186
15°	1879	1892	1923	1940	1951	530
25°	1725	1756	1828	1884	1907	794
35°	1501	1558	1677	1777	1816	938
45°	1225	1300	1459	1588	1634	944
55°	915	996	1171	1291	1332	817
65°	600	680	831	939	977	594
75°	312	380	492	578	605	331
85°	82	121	145	173	178	90
90°	2	3	2	2	2	5
95°	0	0	0	0	0	0
105°	0	0	0	0	0	0
115°	0	0	0	1	1	0
125°	0	0	0	0	0	0
135°	0	1	1	1	1	0
145°	0	0	0	0	0	0
155°	1	1	1	1	1	0
165°	1	1	1	1	1	0
175°	1	1	1	1	1	0
180°	1	1	1	1	1	0



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CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1973	1973	1973	1973	1973
0.5°	1965	1969	1977	1973	1975
1°	1966	1969	1977	1974	1975
1.5°	1965	1969	1977	1973	1975
2°	1964	1968	1976	1973	1975
2.5°	1964	1967	1976	1972	1974
3°	1962	1966	1975	1971	1973
3.5°	1962	1965	1974	1971	1973
4°	1960	1964	1973	1970	1972
4.5°	1958	1962	1972	1969	1972
5°	1956	1960	1970	1968	1972
5.5°	1954	1959	1969	1967	1971
6°	1952	1957	1968	1967	1970
6.5°	1949	1954	1966	1965	1969
7°	1947	1952	1964	1964	1969
7.5°	1945	1950	1963	1964	1968
8°	1941	1947	1961	1962	1967
8.5°	1938	1944	1959	1961	1966
9°	1935	1941	1956	1960	1964
9.5°	1932	1938	1955	1959	1964
10°	1928	1935	1952	1957	1963
10.5°	1924	1932	1950	1956	1962
11°	1920	1928	1948	1954	1961
11.5°	1915	1924	1945	1953	1959
12°	1911	1920	1943	1951	1958
12.5°	1907	1916	1940	1950	1957
13°	1902	1912	1936	1948	1956
13.5°	1897	1908	1933	1946	1954
14°	1890	1904	1930	1945	1954
14.5°	1884	1898	1927	1942	1952
15°	1879	1892	1923	1940	1951
15.5°	1874	1887	1920	1938	1949
16°	1869	1882	1916	1936	1948
16.5°	1861	1876	1912	1934	1946
17°	1855	1871	1908	1931	1945
17.5°	1847	1865	1904	1929	1943
18°	1840	1858	1899	1927	1941
18.5°	1832	1853	1894	1924	1939
19°	1827	1847	1891	1922	1938
19.5°	1820	1840	1886	1919	1935
20°	1812	1833	1881	1916	1934
20.5°	1804	1826	1876	1914	1931
21°	1795	1819	1872	1911	1929
21.5°	1787	1811	1866	1908	1927
22°	1779	1804	1861	1905	1925



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CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
22.5°	1770	1797	1856	1902	1922
23°	1762	1789	1851	1898	1919
23.5°	1752	1781	1845	1895	1916
24°	1744	1773	1840	1891	1913
24.5°	1734	1764	1834	1888	1910
25°	1725	1756	1828	1884	1907
25.5°	1715	1748	1822	1880	1904
26°	1704	1739	1815	1876	1901
26.5°	1694	1730	1809	1871	1897
27°	1685	1721	1802	1867	1894
27.5°	1674	1711	1796	1863	1890
28°	1664	1703	1789	1858	1887
28.5°	1653	1694	1782	1854	1883
29°	1642	1684	1775	1849	1879
29.5°	1632	1674	1768	1844	1874
30°	1621	1664	1760	1838	1869
30.5°	1610	1655	1754	1834	1866
31°	1598	1644	1746	1828	1861
31.5°	1588	1634	1738	1822	1856
32°	1575	1624	1729	1816	1851
32.5°	1562	1613	1720	1810	1845
33°	1550	1602	1713	1803	1839
33.5°	1537	1591	1704	1797	1834
34°	1526	1580	1696	1791	1828
34.5°	1513	1569	1687	1784	1822
35°	1501	1558	1677	1777	1816
35.5°	1490	1546	1668	1770	1808
36°	1476	1534	1659	1761	1801
36.5°	1463	1521	1649	1754	1794
37°	1448	1509	1639	1746	1785
37.5°	1436	1498	1629	1738	1778
38°	1423	1486	1619	1729	1771
38.5°	1410	1474	1610	1721	1764
39°	1396	1462	1600	1713	1756
39.5°	1382	1448	1589	1703	1746
40°	1368	1435	1578	1693	1736
40.5°	1355	1423	1567	1684	1729
41°	1341	1410	1555	1675	1720
41.5°	1327	1397	1544	1665	1709
42°	1313	1383	1532	1654	1699
42.5°	1299	1370	1521	1643	1688
43°	1283	1356	1508	1633	1679
43.5°	1270	1342	1496	1622	1669
44°	1254	1329	1483	1611	1657
44.5°	1239	1315	1472	1600	1645



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CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
45°	1225	1300	1459	1588	1634
45.5°	1210	1285	1446	1576	1621
46°	1193	1271	1433	1564	1608
46.5°	1178	1257	1418	1550	1596
47°	1164	1242	1405	1538	1581
47.5°	1149	1227	1393	1526	1568
48°	1133	1213	1379	1511	1554
48.5°	1116	1197	1363	1496	1538
49°	1101	1181	1349	1482	1523
49.5°	1086	1167	1337	1468	1509
50°	1071	1153	1324	1454	1495
50.5°	1057	1138	1309	1438	1480
51°	1042	1124	1295	1424	1464
51.5°	1025	1107	1280	1407	1447
52°	1009	1093	1264	1391	1433
52.5°	994	1076	1250	1375	1415
53°	978	1060	1234	1358	1399
53.5°	962	1045	1219	1342	1383
54°	946	1030	1203	1326	1364
54.5°	930	1014	1188	1308	1348
55°	915	996	1171	1291	1332
55.5°	899	981	1154	1273	1314
56°	881	966	1139	1257	1296
56.5°	867	949	1122	1240	1279
57°	852	933	1104	1222	1260
57.5°	835	917	1087	1206	1245
58°	817	901	1071	1188	1226
58.5°	801	886	1054	1170	1208
59°	787	869	1035	1152	1191
59.5°	771	853	1018	1134	1173
60°	755	835	1002	1118	1156
60.5°	739	820	985	1100	1138
61°	723	806	968	1083	1121
61.5°	707	790	951	1065	1104
62°	692	773	933	1046	1085
62.5°	677	757	916	1030	1066
63°	661	741	899	1013	1048
63.5°	646	725	882	995	1030
64°	630	710	865	975	1014
64.5°	615	696	848	956	994
65°	600	680	831	939	977
65.5°	584	664	814	921	957
66°	570	649	796	904	938
66.5°	555	633	779	885	920
67°	539	618	761	867	902





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CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
67.5°	524	603	743	849	882
68°	509	587	726	831	864
68.5°	493	573	711	812	847
69°	480	557	693	795	828
69.5°	464	541	673	774	808
70°	449	526	656	757	787
70.5°	433	511	640	739	769
71°	422	497	625	721	755
71.5°	408	481	608	704	736
72°	394	466	591	685	717
72.5°	378	453	575	668	697
73°	364	438	557	650	679
73.5°	350	423	541	632	662
74°	337	410	527	614	642
74.5°	325	395	509	596	625
75°	312	380	492	578	605
75.5°	298	367	476	560	586
76°	286	352	461	545	566
76.5°	273	339	445	524	544
77°	261	325	429	503	523
77.5°	248	311	413	483	502
78°	237	299	397	461	475
78.5°	223	285	381	439	448
79°	211	271	365	415	419
79.5°	199	258	348	391	391
80°	187	246	331	365	365
80.5°	177	233	316	338	346
81°	166	221	299	313	323
81.5°	156	210	278	294	302
82°	145	197	258	275	284
82.5°	134	185	234	256	264
83°	124	171	209	237	247
83.5°	113	159	192	219	228
84°	103	147	177	203	212
84.5°	92	135	161	188	196
85°	82	121	145	173	178
85.5°	74	108	131	154	161
86°	65	92	118	135	141
86.5°	56	77	103	116	118
87°	47	65	89	98	100
87.5°	37	55	70	78	82
88°	28	44	56	60	60
88.5°	19	32	39	42	38
89°	12	20	22	24	20
89.5°	6	10	9	8	7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
90°	2	3	2	2	2
90.5°	0	0	0	0	0
91°	0	0	0	0	1
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	1	1
94.5°	0	0	0	0	0
95°	0	0	0	0	0
95.5°	0	0	0	0	1
96°	0	0	0	0	0
96.5°	0	0	0	0	1
97°	0	0	0	0	0
97.5°	0	0	0	0	1
98°	0	0	0	0	1
98.5°	0	0	0	0	1
99°	0	0	0	1	1
99.5°	0	0	0	0	0
100°	0	0	0	0	1
100.5°	0	0	0	0	1
101°	0	0	0	0	1
101.5°	0	0	0	0	0
102°	0	0	0	1	1
102.5°	0	0	0	0	0
103°	0	0	0	0	0
103.5°	0	0	0	0	0
104°	0	0	1	0	1
104.5°	0	0	0	0	0
105°	0	0	0	0	0
105.5°	0	0	0	0	0
106°	0	0	1	1	1
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	1
109°	0	0	0	0	0
109.5°	0	0	0	0	0
110°	0	0	0	0	1
110.5°	0	0	0	0	0
111°	0	0	0	0	1
111.5°	0	0	0	1	1
112°	0	0	0	0	1



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CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0	0	0	0	1
113°	0	0	0	0	1
113.5°	0	0	0	0	1
114°	0	0	0	0	1
114.5°	0	0	0	0	1
115°	0	0	0	1	1
115.5°	0	0	0	0	1
116°	0	0	0	1	1
116.5°	0	0	0	1	1
117°	0	0	0	1	1
117.5°	0	0	0	1	1
118°	0	0	0	0	0
118.5°	1	0	0	0	1
119°	0	0	0	0	1
119.5°	0	0	0	0	0
120°	0	0	0	1	1
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	1
123°	0	0	0	0	1
123.5°	0	0	0	0	1
124°	0	0	0	0	1
124.5°	0	0	0	0	0
125°	0	0	0	0	0
125.5°	0	0	0	0	1
126°	0	0	0	0	1
126.5°	0	0	0	0	1
127°	0	0	0	0	1
127.5°	0	0	0	0	1
128°	0	0	1	1	1
128.5°	0	0	0	1	1
129°	0	0	1	1	1
129.5°	0	0	0	0	0
130°	0	0	0	1	1
130.5°	0	0	0	1	1
131°	0	0	0	1	1
131.5°	0	0	1	1	1
132°	0	0	0	1	1
132.5°	0	0	0	0	1
133°	1	0	1	1	1
133.5°	1	0	1	1	1
134°	1	1	1	1	1
134.5°	1	1	1	1	1



TEST NUMBER: 17371

CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
135°	0	1	1	1	1
135.5°	1	1	1	1	1
136°	1	1	1	1	1
136.5°	1	1	1	1	1
137°	0	0	0	0	1
137.5°	0	0	0	0	1
138°	1	0	0	0	1
138.5°	0	0	0	0	1
139°	1	1	1	1	1
139.5°	0	0	0	1	1
140°	0	0	0	0	1
140.5°	0	0	0	1	1
141°	1	0	0	1	1
141.5°	1	0	1	0	1
142°	1	0	1	1	1
142.5°	0	0	0	1	1
143°	1	0	0	1	1
143.5°	1	0	1	1	1
144°	0	1	1	1	1
144.5°	1	1	1	1	1
145°	0	0	0	0	0
145.5°	1	1	1	1	1
146°	1	1	1	1	1
146.5°	1	1	1	1	1
147°	1	1	1	1	1
147.5°	1	1	1	1	1
148°	0	0	0	0	0
148.5°	0	0	0	0	1
149°	0	0	0	0	0
149.5°	1	0	0	0	1
150°	1	1	0	0	1
150.5°	1	0	0	0	1
151°	1	0	0	0	1
151.5°	1	0	1	1	1
152°	1	0	1	0	1
152.5°	1	1	1	1	1
153°	1	0	1	1	1
153.5°	1	1	0	1	1
154°	1	0	1	1	1
154.5°	1	1	1	1	1
155°	1	1	1	1	1
155.5°	1	1	1	1	1
156°	1	1	1	1	1
156.5°	1	0	0	0	1
157°	1	1	1	1	1



TEST NUMBER: 17371

CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
157.5°	1	0	0	1	1
158°	0	0	0	1	1
158.5°	1	0	0	1	1
159°	1	0	0	1	1
159.5°	0	1	1	0	1
160°	1	1	0	1	1
160.5°	1	0	1	1	1
161°	1	1	1	1	1
161.5°	1	1	1	1	1
162°	1	1	1	1	1
162.5°	1	0	1	1	1
163°	0	1	1	1	1
163.5°	1	1	1	1	1
164°	0	0	0	0	0
164.5°	1	1	1	1	1
165°	1	1	1	1	1
165.5°	1	1	1	1	1
166°	1	1	1	1	1
166.5°	1	1	1	1	1
167°	1	1	1	1	1
167.5°	1	1	1	1	1
168°	1	1	1	1	1
168.5°	1	1	1	1	1
169°	0	0	0	0	1
169.5°	1	1	1	1	1
170°	1	1	1	1	1
170.5°	0	0	0	1	1
171°	1	1	1	1	1
171.5°	1	1	1	1	1
172°	0	0	0	0	0
172.5°	1	1	1	1	1
173°	1	1	1	1	1
173.5°	1	1	1	1	1
174°	1	1	1	1	1
174.5°	1	1	1	1	1
175°	1	1	1	1	1
175.5°	1	1	1	1	1
176°	1	1	1	1	1
176.5°	1	1	1	1	1
177°	1	1	1	1	1
177.5°	1	1	1	1	1
178°	1	1	1	1	1
178.5°	1	1	1	1	1
179°	1	1	1	1	1
179.5°	1	1	1	1	1



TEST NUMBER: 17371

CATALOG NUMBER: CORELITE R3-WL-3T8-1C-UNV-24-T1 (FROSTED LENS)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
180°	1	1	1	1	1

(END OF REPORT)