

**LUMINAIRE:** CWW4-30LWG-2WW-EDU  
 CWW Contemporary Wallwash, Recessed Architectural  
 3" x 48" led with frosted acrylic prisms lens  
**BALLAST:** XI054C150V054DNT1  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 4285  
**WATTS:** 40.00  
**MOUNTING:** Recessed  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 1.14 90° = 1.25  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 3.92  
 WIDTH: 0.25  
 HEIGHT: 0.00

TEST #16.01159  
 DATE: 6/7/2016

**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 107**

**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.24**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

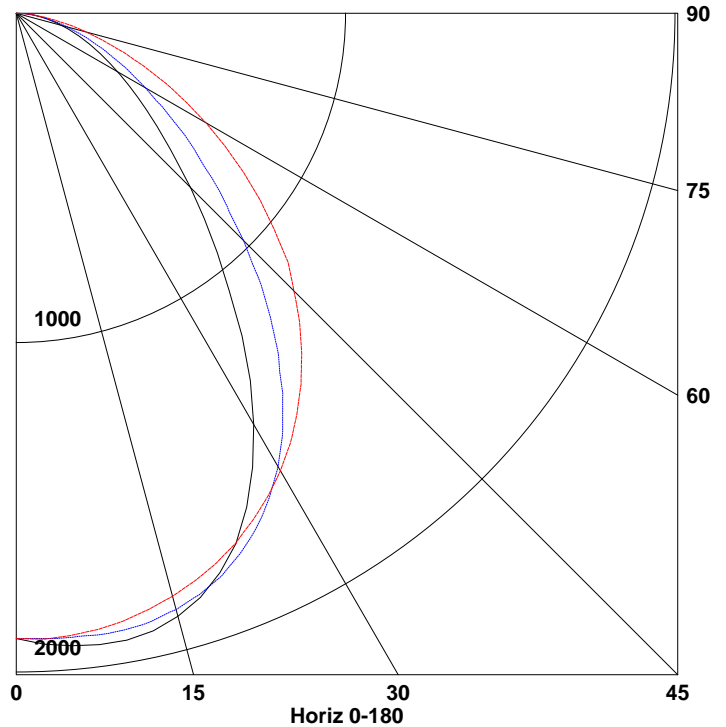
**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	1488	34.7	34.7
0-40	2342	54.6	54.6
0-60	3676	85.8	85.8
0-90	4285	100.0	100.0
0-180	4285	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	20847	20847	20847	20847	20847	20847
30	18276	18403	19341	20508	20686	20343
40	13621	14324	15557	18166	19528	19328
45	11619	12613	13731	16558	18453	18516
50	9962	11004	12115	14746	16985	17480
55	8694	9556	10609	13002	15281	16143
60	7842	8523	9358	11511	13576	14608
65	7095	7615	8265	10058	11877	12943
70	6519	6872	7386	8799	10277	11144
75	6069	6323	6663	7554	8615	9251
80	5693	5946	6072	6578	7148	7590
85	5797	6175	6301	6175	6049	5923

**INDOOR CANDELA PLOT**



0.0 ——— 45.0 ——— 90.0 ———

**COEFFICIENTS OF UTILIZATION (%)**

**EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%**

**ZONAL CAVITY METHOD**

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	80%				70%				50%				30%						
RW	70%	50%	30%	10%	70%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86	86
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74	74
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	64	64
R	4	86	75	67	61	84	73	66	60	71	65	59	69	63	59	67	62	58	56
C	5	79	67	59	53	77	66	59	53	64	57	52	62	56	52	61	55	51	49
R	6	74	61	53	47	72	60	52	47	59	52	46	57	51	46	55	50	46	44
	7	69	56	48	42	67	55	47	42	54	47	41	52	46	41	51	45	41	39
	8	64	51	43	38	63	51	43	38	49	42	37	48	42	37	47	41	37	35
	9	60	47	40	34	59	47	39	34	46	39	34	45	38	34	44	38	34	32
	10	56	44	36	31	55	43	36	31	42	36	31	41	35	31	41	35	31	29

RCR = ROOM CAVITY RATIO RC = EFFECTIVE CEILING CAVITY REFLECTANCE RW = WALL REFLECTANCE

THE DATA IN THIS REPORT ARE BASED ON ABSOLUTE MEASUREMENTS.  
 ANSI/IESNA RP-1 COMPLIANCE IS BASED ON ABSOLUTE MEASUREMENTS.  
 THIS TEST RUN IN ACCORDANCE WITH CURRENT I.E.S.N.A. PUBLISHED PROCEDURES.

APPROVED BY: \_\_\_\_\_

**LUMINAIRE:** CWW4-30LWG-2WW-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 48" led with frosted acylic prisms lens

TEST #16.01159  
DATE: 6/7/2016

**CANDELA VALUES**

ANGLE	0.0	5.0	10.0	15.0	20.0	22.5	25.0	30.0	35.0	40.0	45.0	50.0	55.0	60.0	65.0	67.5	70.0
0.0	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898	1898
2.5	1917	1925	1921	1915	1908	1899	1901	1902	1914	1910	1900	1902	1901	1899	1893	1889	1888
5.0	1927	1938	1933	1927	1918	1905	1911	1911	1922	1917	1902	1905	1903	1899	1892	1885	1886
7.5	1933	1947*	1941	1934	1925	1910	1917	1917	1926	1922	1903	1907	1903	1898	1889	1879	1881
10.0	1932	1946	1940	1934	1924	1908	1917	1916	1924	1922	1900	1904	1899	1892	1883	1870	1873
12.5	1920	1933	1927	1921	1912	1895	1905	1906	1914	1914	1891	1895	1889	1882	1872	1858	1861
15.0	1895	1908	1901	1895	1888	1873	1882	1886	1894	1896	1874	1880	1874	1867	1856	1841	1844
17.5	1859	1868	1863	1858	1852	1840	1848	1854	1865	1871	1850	1858	1853	1847	1836	1820	1823
20.0	1807	1810	1809	1806	1803	1796	1804	1811	1822	1834	1819	1826	1822	1820	1810	1794	1798
22.5	1742	1738	1735	1735	1736	1738	1741	1751	1769	1783	1775	1787	1785	1785	1776	1762	1765
25.0	1655	1647	1647	1649	1654	1666	1664	1678	1698	1723	1724	1734	1738	1741	1736	1723	1729
27.5	1554	1541	1542	1547	1557	1580	1572	1591	1616	1647	1661	1672	1683	1690	1689	1681	1685
30.0	1441	1422	1430	1438	1451	1474	1466	1494	1525	1558	1589	1603	1617	1632	1634	1630	1631
32.5	1322	1301	1305	1320	1335	1363	1354	1381	1420	1459	1505	1519	1542	1561	1572	1572	1575
35.0	1195	1183	1192	1202	1220	1244	1239	1268	1310	1353	1411	1427	1458	1484	1506	1510	1516
37.5	1062	1073	1078	1088	1105	1123	1129	1158	1195	1244	1308	1325	1369	1406	1425	1437	1440
40.0	950	969	974	983	999	1004	1018	1045	1085	1129	1198	1229	1267	1303	1338	1356	1362
42.5	845	870	879	888	903	896	921	945	981	1024	1087	1119	1164	1213	1251	1271	1272
45.0	748	779	787	797	812	796	829	852	884	923	976	1014	1066	1106	1153	1180	1188
47.5	657	693	697	710	722	703	742	767	793	830	868	917	958	1016	1050	1081	1083
50.0	583	612	620	630	644	623	660	681	709	741	773	818	863	906	960	988	994
52.5	515	541	545	556	569	549	584	604	630	659	683	731	768	813	857	889	899
55.0	454	476	481	488	499	482	513	531	554	580	598	645	679	721	761	788	798
57.5	402	419	424	430	439	424	450	467	485	509	523	570	600	631	673	694	704
60.0	357	371	373	379	388	374	396	408	426	445	453	497	524	553	587	608	618
62.5	311	324	328	331	337	327	344	356	368	384	392	428	451	480	508	522	536
65.0	273	283	286	288	293	285	299	309	318	331	335	367	387	411	434	446	457
67.5	236	245	247	249	253	247	259	265	272	284	286	309	329	347	366	377	386
70.0	203	209	209	211	214	210	219	223	230	240	240	259	274	289	304	313	320
72.5	171	176	176	178	180	176	182	186	191	197	198	213	223	235	247	251	257
75.0	143	145	147	147	149	146	150	153	157	161	161	173	178	185	196	198	203
77.5	116	118	118	120	121	118	122	123	124	128	127	133	139	143	149	152	156
80.0	90	93	93	93	94	92	95	96	96	98	96	101	104	107	109	111	113
82.5	67	70	70	71	70	68	71	71	72	72	69	74	74	76	76	75	76
85.0	46	48	49	49	49	46	49	49	50	50	47	50	49	48	49	47	48
87.5	26	26	26	26	27	25	26	27	27	27	25	28	27	26	26	24	25
90.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*MAXIMUM CANDELA VALUE



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**CANDELA VALUES**

ANGLE	75.0	80.0	85.0	90.0
0.0	1898	1898	1898	1898
2.5	1885	1882	1890	1902
5.0	1882	1878	1885	1896
7.5	1876	1871	1876	1887
10.0	1866	1860	1865	1873
12.5	1852	1844	1846	1854
15.0	1834	1824	1825	1832
17.5	1812	1800	1799	1806
20.0	1784	1772	1771	1776
22.5	1752	1739	1734	1741
25.0	1713	1699	1695	1698
27.5	1671	1655	1651	1653
30.0	1621	1608	1601	1604
32.5	1565	1551	1546	1548
35.0	1508	1494	1485	1485
37.5	1437	1425	1420	1420
40.0	1369	1356	1348	1348
42.5	1284	1277	1272	1273
45.0	1199	1197	1192	1192
47.5	1106	1113	1110	1119
50.0	1012	1019	1019	1023
52.5	923	924	931	934
55.0	826	837	839	843
57.5	736	745	748	752
60.0	645	652	661	665
62.5	554	565	573	578
65.0	474	487	495	498
67.5	402	410	417	419
70.0	333	340	346	347
72.5	268	275	277	278
75.0	211	217	219	218
77.5	159	163	168	167
80.0	115	116	121	120
82.5	77	79	79	81
85.0	47	47	47	47
87.5	24	23	22	22
90.0	0	0	0	0



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**I.E.S.N.A. VISUAL COMFORT PROBABILITY**

ILLUMINATION = 100 FC  
REFLECTANCES = 80/50/20  
WORK PLANE HEIGHT = 2.5 FEET

HEIGHT	LUMINAIRES							
	LENGTHWISE				CROSSWISE			
ROOM SIZE	8.5	10.0	13.0	16.0	8.5	10.0	13.0	16.0
W L								
20 20	22	25	32	41	21	24	30	40
20 30	20	21	23	29	18	20	21	27
20 40	19	20	21	24	18	18	19	22
20 60	18	19	19	21	17	18	17	19
30 20	24	26	31	39	23	25	29	38
30 30	21	22	23	28	20	20	21	26
30 40	20	20	20	22	19	19	19	21
30 60	19	19	18	20	18	18	17	18
30 80	19	19	18	19	18	18	17	18
40 20	26	28	32	38	26	28	31	38
40 30	23	23	24	28	22	22	22	27
40 40	21	21	21	22	20	20	19	21
40 60	20	20	19	20	19	19	18	18
40 80	20	20	18	19	20	19	17	18
40 100	20	20	18	19	20	20	17	18
60 30	24	25	25	28	24	24	24	27
60 40	23	23	21	23	22	22	20	22
60 60	21	21	19	20	21	20	18	19
60 80	21	21	19	19	21	20	18	18
60 100	21	21	19	19	21	20	18	18
100 40	27	26	24	26	26	26	24	25
100 60	25	24	22	22	24	23	21	21
100 80	24	23	21	21	24	23	20	20
100 100	24	23	20	20	24	23	20	20

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES