

**LUMINAIRE:** CWW4-40LWG-2WW-EDU  
 CWW Contemporary Wallwash, Recessed Architectural  
 3" x 48" led with frosted acrylic prisms lens  
 Scaled from Test#16.01159  
**BALLAST:** XI054C150V054DNT1  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 4504  
**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 #16278

DATE: 6/3/2016

**TOTAL LUMINAIRE EFFICIENCY = 100.0**

**TOTAL LUMENS PER WATT = 113**

**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**

**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.12**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

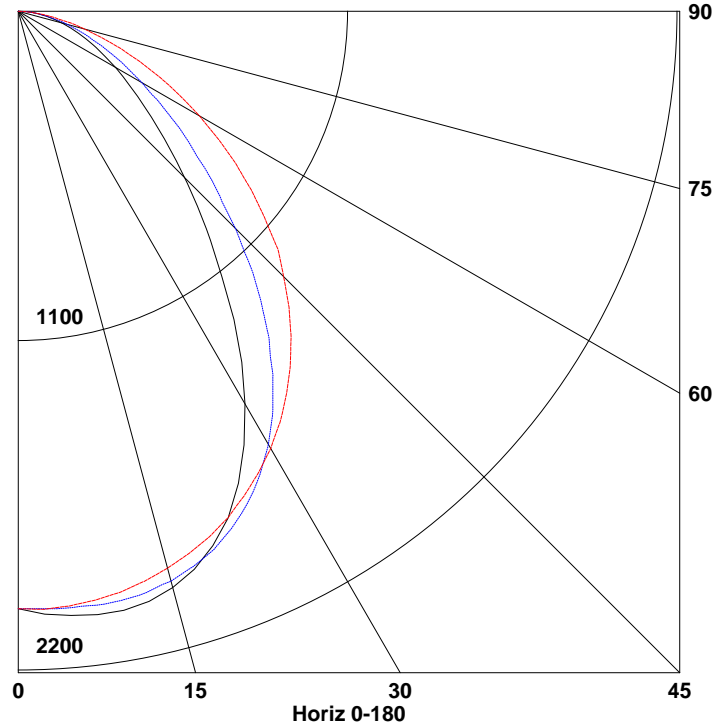
**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	1564	34.7	34.7
0-40	2461	54.6	54.6
0-60	3864	85.8	85.8
0-90	4504	100.0	100.0
0-180	4504	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	21912	21912	21912	21912	21912	21912
30	19202	19341	20330	21548	21738	21383
40	14309	15055	16345	19098	20518	20317
45	12209	13250	14430	17397	19401	19463
50	10475	11568	12730	15498	17856	18369
55	9134	10034	11145	13673	16066	16966
60	8238	8963	9841	12104	14279	15355
65	7459	8005	8680	10578	12475	13593
70	6840	7226	7772	9249	10790	11722
75	6366	6663	7002	7936	9039	9718
80	6009	6262	6389	6895	7527	7970
85	6049	6553	6679	6553	6301	6175

**INDOOR CANDELA PLOT**



0.0 ——— 45.0 ——— 90.0 ———

**COEFFICIENTS OF UTILIZATION (%)**

**EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%**

**ZONAL CAVITY METHOD**

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%	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86	
2	101	94	88	82	99	92	86	81	88	84	80	85	81	78	82	79	76	74	
3	93	83	76	70	91	82	75	69	79	73	68	76	71	67	74	70	66	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:** CWW4-40LWG-2WW-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 48" led with frosted acylic prisms lens  
Scaled from Test#16.01159

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DATE: 6/3/2016

**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	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995	1995
2.5	2015	2023	2019	2013	2005	1996	1998	1999	2012	2007	1997	1999	1998	1996	1990	1985	1984
5.0	2025	2037	2032	2025	2016	2002	2008	2008	2020	2015	1999	2002	2000	1996	1988	1981	1982
7.5	2032	<b>2046*</b>	2040	2033	2023	2007	2015	2015	2024	2020	2000	2004	2000	1995	1985	1975	1977
10.0	2031	2045	2039	2033	2022	2005	2015	2014	2022	2020	1997	2001	1996	1988	1979	1965	1969
12.5	2018	2032	2025	2019	2010	1992	2002	2003	2012	2012	1987	1992	1985	1978	1967	1953	1956
15.0	1992	2005	1998	1992	1984	1969	1978	1982	1991	1993	1970	1976	1970	1962	1951	1935	1938
17.5	1954	1963	1958	1953	1946	1934	1942	1949	1960	1966	1944	1953	1948	1941	1930	1913	1916
20.0	1899	1902	1901	1898	1895	1888	1896	1903	1915	1928	1912	1919	1915	1913	1902	1885	1890
22.5	1831	1827	1823	1823	1825	1827	1830	1840	1859	1874	1866	1878	1876	1876	1867	1852	1855
25.0	1739	1731	1731	1733	1738	1751	1749	1764	1785	1811	1812	1822	1827	1830	1825	1811	1817
27.5	1633	1620	1621	1626	1636	1661	1652	1672	1698	1731	1746	1757	1769	1776	1775	1767	1771
30.0	1514	1495	1503	1511	1525	1549	1541	1570	1603	1637	1670	1685	1699	1715	1717	1713	1714
32.5	1389	1367	1372	1387	1403	1433	1423	1451	1492	1533	1582	1596	1621	1641	1652	1652	1655
35.0	1256	1243	1253	1263	1282	1307	1302	1333	1377	1422	1483	1500	1532	1560	1583	1587	1593
37.5	1116	1128	1133	1143	1161	1180	1187	1217	1256	1307	1375	1393	1439	1478	1498	1510	1513
40.0	998	1018	1024	1033	1050	1055	1070	1098	1140	1187	1259	1292	1332	1369	1406	1425	1431
42.5	888	914	924	933	949	942	968	993	1031	1076	1142	1176	1223	1275	1315	1336	1337
45.0	786	819	827	838	853	837	871	895	929	970	1026	1066	1120	1162	1212	1240	1249
47.5	691	728	733	746	759	739	780	806	833	872	912	964	1007	1068	1104	1136	1138
50.0	613	643	652	662	677	655	694	716	745	779	812	860	907	952	1009	1038	1045
52.5	541	569	573	584	598	577	614	635	662	693	718	768	807	854	901	934	945
55.0	477	500	506	513	524	507	539	558	582	610	629	678	714	758	800	828	839
57.5	423	440	446	452	461	446	473	491	510	535	550	599	631	663	707	729	740
60.0	375	390	392	398	408	393	416	429	448	468	476	522	551	581	617	639	650
62.5	327	341	345	348	354	344	362	374	387	404	412	450	474	504	534	549	563
65.0	287	297	301	303	308	300	314	325	334	348	352	386	407	432	456	469	480
67.5	248	258	260	262	266	260	272	279	286	298	301	325	346	365	385	396	406
70.0	213	220	220	222	225	221	230	234	242	252	252	272	288	304	320	329	336
72.5	180	185	185	187	189	185	191	195	201	207	208	224	234	247	260	264	270
75.0	150	152	155	155	157	153	158	161	165	169	169	182	187	194	206	208	213
77.5	122	124	124	126	127	124	128	129	130	135	133	140	146	150	157	160	164
80.0	95	98	98	98	99	97	100	101	101	103	101	106	109	112	115	117	119
82.5	70	74	74	75	74	71	75	75	76	76	73	78	78	80	80	79	80
85.0	48	50	52	52	52	48	52	52	53	53	49	53	52	50	52	49	50
87.5	27	27	27	27	28	26	27	28	28	28	26	29	28	27	27	25	26
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	1995	1995	1995	1995
2.5	1981	1978	1986	1999
5.0	1978	1974	1981	1993
7.5	1972	1966	1972	1983
10.0	1961	1955	1960	1969
12.5	1946	1938	1940	1949
15.0	1928	1917	1918	1925
17.5	1904	1892	1891	1898
20.0	1875	1862	1861	1867
22.5	1841	1828	1822	1830
25.0	1800	1786	1781	1785
27.5	1756	1739	1735	1737
30.0	1704	1690	1683	1686
32.5	1645	1630	1625	1627
35.0	1585	1570	1561	1561
37.5	1510	1498	1492	1492
40.0	1439	1425	1417	1417
42.5	1349	1342	1337	1338
45.0	1260	1258	1253	1253
47.5	1162	1170	1167	1176
50.0	1064	1071	1071	1075
52.5	970	971	978	982
55.0	868	880	882	886
57.5	774	783	786	790
60.0	678	685	695	699
62.5	582	594	602	607
65.0	498	512	520	523
67.5	423	431	438	440
70.0	350	357	364	365
72.5	282	289	291	292
75.0	222	228	230	229
77.5	167	171	177	176
80.0	121	122	127	126
82.5	81	83	83	85
85.0	49	49	49	49
87.5	25	24	23	23
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	21	24	30	40	20	23	29	38
20 30	19	20	22	28	17	19	20	26
20 40	18	19	20	22	17	17	18	20
20 60	17	18	18	20	16	17	17	18
30 20	23	25	30	37	22	24	28	36
30 30	20	21	22	27	19	19	20	25
30 40	19	19	19	21	18	18	18	20
30 60	18	18	18	19	17	17	16	17
30 80	18	18	17	18	18	17	16	17
40 20	25	27	31	37	25	27	30	36
40 30	22	22	23	26	21	21	21	25
40 40	20	20	20	21	19	19	18	20
40 60	19	19	18	19	19	18	17	18
40 80	19	19	17	18	19	18	16	17
40 100	20	19	18	18	19	19	17	17
60 30	23	24	24	27	23	23	23	26
60 40	22	22	20	22	21	21	19	21
60 60	20	20	18	19	20	19	17	18
60 80	20	20	18	18	20	19	17	17
60 100	20	20	18	18	20	19	17	17
100 40	26	25	23	25	25	25	23	24
100 60	24	23	21	21	23	23	20	20
100 80	23	22	20	20	23	22	19	19
100 100	23	22	20	20	23	22	19	19

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES