

**LUMINAIRE:** CWW4-40MLG-2WW-EDU  
 CWW Contemporary Wallwash, Recessed Architectural  
 3" x 48" led with frosted acrylic prisms lens  
 Scaled from Test#16.01160  
**BALLAST:** XI054C150V054DNT1  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 5293  
**WATTS:** 49.60  
**MOUNTING:** Recessed  
**SHIELDING ANGLE:** 0° = 90 90° = 90  
**SPACING CRITERION:** 0° = 1.15 90° = 1.25  
**LUMINOUS OPENING IN FEET**  
 LENGTH: 0.25  
 WIDTH: 3.92  
 HEIGHT: 0.00

TEST #16281

DATE: 6/3/2016

**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 = \$2.26**

**BASED ON 3000 HRS. AND \$.08 PER KWH**

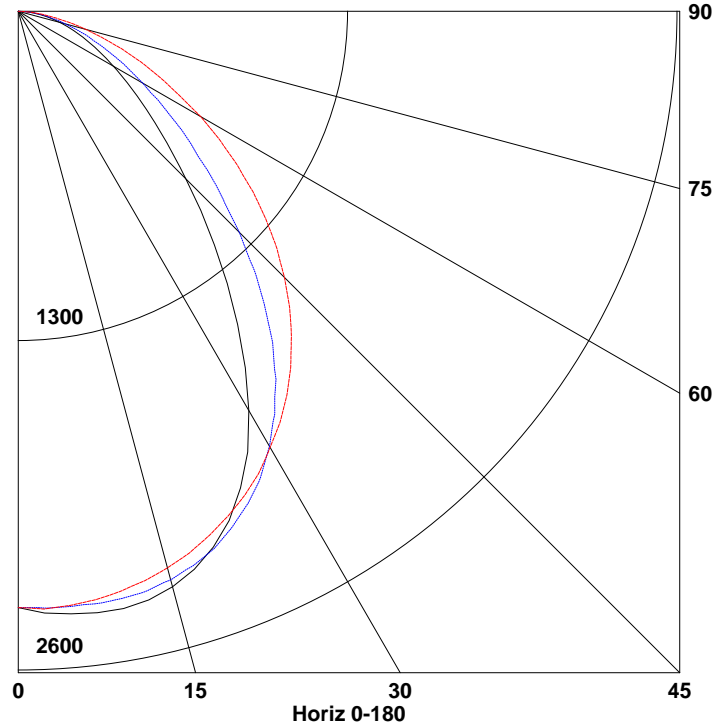
**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	1847	34.9	34.9
0-40	2909	55.0	55.0
0-60	4559	86.1	86.1
0-90	5293	100.0	100.0
0-180	5293	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	25844	25844	25844	25844	25844	25844
30	23083	22930	24097	25429	25683	25201
40	17263	17650	19299	22697	24289	24045
45	14524	15331	16885	20597	22927	23082
50	12388	13294	14729	18318	21154	21787
55	10724	11490	12811	16105	19073	20164
60	9534	10083	11225	14191	16937	18277
65	8603	8992	9850	12345	14658	16010
70	7900	8125	8767	10726	12717	14002
75	7130	7299	7766	9082	10779	11713
80	6452	6515	6895	7780	8729	9551
85	5923	5923	6049	6679	7184	7562

**INDOOR CANDELA PLOT**



0.0 ——— 45.0 ——— 90.0 ——— 130.0

**COEFFICIENTS OF UTILIZATION (%)**

RC	RW	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																	
		80%				70%				50%				30%					
		70%	50%	30%	10%	70%	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	97	94	96	93	91	92	90	89	86
	2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76	74
	3	93	84	76	70	91	82	75	70	79	73	68	76	72	67	74	70	66	64
<b>R</b>	4	86	75	67	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
<b>C</b>	5	80	68	59	53	78	67	59	53	64	58	52	63	57	52	61	56	51	49
<b>R</b>	6	74	61	53	47	72	60	53	47	59	52	46	57	51	46	56	50	46	44
	7	69	56	48	42	67	55	47	42	54	47	42	52	46	41	51	45	41	39
	8	64	51	43	38	63	51	43	38	50	43	38	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	57	44	36	31	55	43	36	31	42	36	31	42	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:** CWW4-40MLG-2WW-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 48" led with frosted acylic prisms lens  
Scaled from Test#16.01160

TEST #16281  
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	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353	2353
2.5	2377	2392	2388	2379	2371	2355	2362	2363	2378	2372	2357	2362	2362	2358	2351	2343	2345
5.0	2387	2408	2403	2394	2384	2361	2374	2374	2388	2382	2358	2368	2365	2361	2352	2338	2343
7.5	2394	2415*	2409	2402	2390	2365	2381	2379	2392	2387	2358	2370	2365	2358	2348	2330	2338
10.0	2393	2411	2403	2395	2385	2363	2375	2375	2387	2385	2353	2365	2360	2351	2340	2319	2328
12.5	2379	2390	2385	2376	2366	2349	2357	2360	2370	2372	2343	2352	2346	2338	2326	2302	2312
15.0	2351	2356	2350	2346	2336	2324	2329	2332	2344	2349	2323	2331	2324	2320	2306	2283	2293
17.5	2309	2308	2302	2299	2291	2285	2287	2291	2306	2315	2294	2301	2294	2292	2280	2257	2266
20.0	2250	2242	2234	2234	2230	2233	2230	2235	2255	2268	2257	2260	2260	2257	2245	2224	2231
22.5	2175	2157	2151	2154	2152	2166	2158	2167	2188	2209	2204	2210	2208	2212	2205	2185	2192
25.0	2075	2045	2042	2048	2053	2081	2063	2080	2106	2130	2144	2146	2154	2157	2152	2138	2143
27.5	1961	1918	1922	1929	1942	1981	1954	1978	2011	2040	2072	2072	2086	2094	2094	2083	2090
30.0	1820	1777	1778	1793	1808	1858	1831	1855	1900	1937	1983	1986	2005	2022	2027	2023	2025
32.5	1668	1620	1634	1646	1665	1722	1687	1727	1769	1813	1884	1887	1916	1936	1949	1950	1953
35.0	1509	1466	1483	1497	1518	1574	1543	1588	1633	1682	1773	1783	1815	1842	1870	1874	1879
37.5	1354	1322	1326	1346	1368	1425	1400	1440	1492	1546	1649	1652	1708	1744	1769	1785	1786
40.0	1204	1187	1196	1210	1231	1272	1257	1301	1346	1413	1511	1532	1583	1628	1666	1688	1694
42.5	1066	1062	1072	1085	1105	1132	1130	1171	1213	1273	1372	1400	1455	1509	1557	1583	1582
45.0	935	947	956	969	987	1003	1010	1049	1087	1142	1233	1271	1326	1381	1439	1472	1476
47.5	824	839	844	861	879	886	905	931	969	1021	1096	1135	1192	1263	1315	1356	1355
50.0	725	738	749	761	778	781	799	831	862	903	973	1013	1072	1131	1189	1234	1238
52.5	638	650	660	671	685	686	705	736	763	800	859	900	953	1010	1066	1110	1119
55.0	560	572	577	586	600	600	617	644	669	706	750	797	841	892	943	988	996
57.5	494	500	506	512	524	524	538	562	584	617	655	698	738	786	833	869	884
60.0	434	437	445	450	459	461	471	492	511	535	569	607	646	684	725	760	771
62.5	379	384	386	391	398	399	410	424	442	462	488	521	555	593	629	657	664
65.0	331	335	335	341	346	347	354	365	379	396	416	445	475	507	537	560	564
67.5	288	289	290	293	300	301	305	312	324	335	354	374	403	427	452	471	478
70.0	246	247	247	250	253	255	259	265	273	282	296	310	334	354	374	390	396
72.5	205	206	207	208	212	212	213	219	224	232	243	256	269	287	303	315	321
75.0	168	169	171	171	172	173	174	180	183	189	194	206	214	225	240	249	254
77.5	135	133	137	137	138	138	139	143	144	147	152	157	166	172	181	187	191
80.0	102	102	102	103	103	105	105	106	109	110	114	117	123	126	131	136	138
82.5	74	74	74	75	75	76	76	76	78	79	80	82	83	87	90	92	92
85.0	47	45	47	47	47	48	47	49	48	49	52	53	53	53	55	55	57
87.5	24	21	22	21	21	23	22	22	22	23	25	24	24	24	25	25	25
90.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

\*MAXIMUM CANDELA VALUE

**LUMINAIRE:** CWW4-40MLG-2WW-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 48" led with frosted acylic prised lens  
Scaled from Test#16.01160

TEST #16281  
DATE: 6/3/2016

**CANDELA VALUES**

ANGLE	75.0	80.0	85.0	90.0
0.0	2353	2353	2353	2353
2.5	2340	2336	2346	2361
5.0	2336	2332	2341	2353
7.5	2330	2323	2330	2342
10.0	2319	2309	2314	2324
12.5	2301	2290	2292	2302
15.0	2278	2266	2266	2274
17.5	2250	2237	2234	2242
20.0	2218	2202	2199	2202
22.5	2175	2159	2154	2158
25.0	2130	2111	2104	2110
27.5	2077	2058	2052	2055
30.0	2016	1996	1988	1987
32.5	1944	1930	1922	1923
35.0	1873	1855	1848	1848
37.5	1785	1772	1763	1766
40.0	1696	1688	1676	1677
42.5	1592	1590	1584	1585
45.0	1492	1486	1484	1486
47.5	1377	1383	1381	1384
50.0	1263	1268	1270	1275
52.5	1150	1155	1159	1166
55.0	1029	1040	1046	1053
57.5	913	931	933	941
60.0	804	817	826	832
62.5	697	710	713	715
65.0	597	605	615	616
67.5	501	514	518	526
70.0	414	426	433	436
72.5	331	344	347	349
75.0	263	270	276	276
77.5	199	203	210	210
80.0	142	146	151	151
82.5	97	97	99	99
85.0	56	57	58	60
87.5	25	27	27	28
90.0	0	0	0	0



**LUMINAIRE:** CWW4-40MLG-2WW-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 48" led with frosted acrylic prisms lens  
Scaled from Test#16.01160

TEST #16281  
DATE: 6/3/2016

**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	18	21	26	35	17	19	24	33
20 30	16	17	19	24	15	16	17	22
20 40	16	16	17	19	14	14	15	17
20 60	15	16	16	17	14	14	14	15
30 20	20	22	25	33	19	21	24	32
30 30	17	18	19	23	16	16	17	22
30 40	16	16	16	18	15	15	15	17
30 60	16	16	15	16	15	15	14	15
30 80	16	16	15	16	15	15	13	14
40 20	22	24	27	33	21	23	26	32
40 30	19	19	19	23	18	18	18	22
40 40	18	18	17	18	17	17	16	17
40 60	17	17	15	16	16	16	14	15
40 80	17	17	15	16	16	16	14	14
40 100	18	17	15	16	17	16	14	14
60 30	21	21	20	23	20	20	19	23
60 40	19	19	18	19	18	18	17	18
60 60	18	18	16	16	17	17	15	15
60 80	18	18	15	16	17	17	14	15
60 100	18	18	16	16	18	17	15	15
100 40	23	22	20	21	22	22	20	21
100 60	21	21	18	18	21	20	17	18
100 80	21	20	17	18	20	19	17	17
100 100	21	20	17	17	20	19	16	16

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES