

**LUMINAIRE:** CWW4-40MWG-2WW-EDU  
 CWW Contemporary Wallwash, Recessed Architectural  
 3" x 48" led with frosted acrylic prisms lens  
 Scaled from Test#16.01158  
**BALLAST:** XI040C110V054BPT1  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 3789  
**WATTS:** 35.00  
**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 #16274  
 DATE: 6/3/2016

**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 108**

**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.22**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

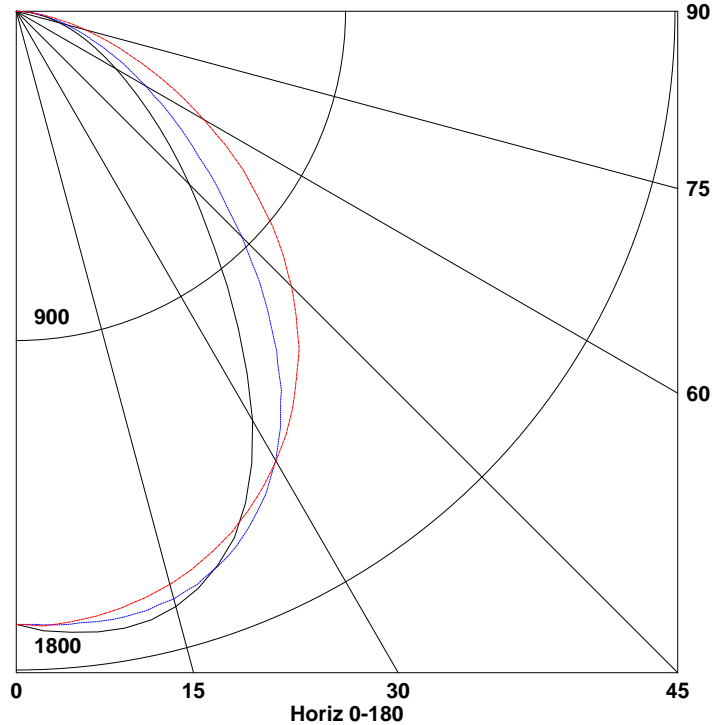
**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	1320	34.8	34.8
0-40	2080	54.9	54.9
0-60	3261	86.1	86.1
0-90	3789	100.0	100.0
0-180	3789	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	18398	18398	18398	18398	18398	18398
30	16373	16411	17299	18250	18403	17997
40	12058	12574	13822	16345	17363	17234
45	10361	10904	12069	14788	16434	16527
50	8988	9484	10526	13140	15208	15618
55	7794	8196	9153	11528	13711	14496
60	6920	7227	8018	10127	12170	13005
65	6211	6393	7043	8810	10656	11461
70	5684	5813	6198	7643	9153	9827
75	5177	5262	5559	6620	7639	8275
80	4807	4807	4997	5566	6262	6642
85	4537	4663	4789	5041	5041	5167

**INDOOR CANDELA PLOT**



0.0 ——— 45.0 ——— 90.0 ——— 180.0 ———

**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	97	94	96	93	91	92	90	88	86	86
2	101	94	88	83	99	92	86	82	88	84	80	85	81	78	82	79	76	74	74
3	93	84	76	70	91	82	75	70	79	73	68	76	71	67	74	70	66	64	64
R	4	86	75	67	61	84	74	66	60	71	65	59	69	63	59	67	62	58	56
C	5	79	68	59	53	77	67	59	53	64	58	52	63	57	52	61	55	51	49
R	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	49	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:** CWW4-40MWG-2WW-EDU  
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3" x 48" led with frosted acrylic prisms lens  
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**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	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675	1675
2.5	1694	1701	1699	1694	1688	1677	1682	1681	1693	1687	1678	1683	1682	1680	1674	1668	1669
5.0	1703	1713	1711	1706	1698	1683	1691	1690	1701	1694	1681	1687	1685	1681	1673	1665	1668
7.5	1710	1722*	1718	1713	1705	1688	1697	1695	1705	1698	1682	1688	1685	1680	1671	1660	1664
10.0	1711	1720	1716	1711	1704	1688	1696	1695	1704	1699	1681	1687	1683	1676	1667	1652	1657
12.5	1703	1710	1704	1699	1692	1680	1686	1685	1695	1692	1674	1680	1675	1668	1658	1642	1647
15.0	1684	1687	1681	1678	1671	1662	1666	1667	1676	1677	1662	1666	1662	1655	1645	1628	1633
17.5	1653	1653	1648	1646	1640	1634	1636	1640	1650	1655	1642	1645	1642	1637	1627	1610	1615
20.0	1610	1607	1604	1602	1601	1595	1598	1603	1614	1624	1613	1619	1615	1612	1604	1588	1593
22.5	1557	1548	1544	1546	1544	1548	1545	1553	1568	1581	1578	1583	1583	1583	1575	1562	1566
25.0	1482	1469	1471	1472	1476	1484	1481	1495	1511	1530	1532	1541	1542	1544	1541	1529	1533
27.5	1393	1376	1381	1384	1397	1408	1407	1421	1443	1466	1481	1489	1495	1504	1504	1491	1496
30.0	1291	1273	1279	1286	1294	1317	1310	1333	1364	1393	1418	1429	1439	1448	1452	1446	1451
32.5	1174	1158	1166	1175	1194	1214	1213	1236	1270	1303	1344	1356	1377	1394	1402	1397	1401
35.0	1058	1046	1054	1064	1087	1108	1108	1134	1174	1214	1263	1277	1305	1327	1342	1345	1347
37.5	948	940	948	959	981	998	998	1030	1067	1110	1169	1190	1223	1257	1272	1276	1282
40.0	841	845	845	860	877	894	898	924	964	1008	1069	1097	1140	1171	1197	1208	1211
42.5	749	753	757	770	785	800	806	830	867	910	970	1000	1046	1087	1120	1137	1140
45.0	667	672	675	687	702	713	721	742	777	817	872	904	952	1000	1035	1054	1058
47.5	596	596	602	611	622	632	639	662	688	725	775	812	859	903	944	966	977
50.0	526	524	531	539	555	562	571	590	616	644	691	725	769	818	860	884	890
52.5	463	461	468	474	489	495	504	521	542	570	609	643	684	730	771	794	805
55.0	407	407	409	417	428	436	442	457	478	503	537	565	602	644	683	707	716
57.5	357	358	358	366	375	384	387	399	419	440	471	498	531	565	601	624	632
60.0	315	312	315	318	329	334	338	350	365	383	409	434	461	495	527	544	554
62.5	276	274	276	280	283	290	291	302	315	331	352	374	397	423	450	467	479
65.0	239	238	240	244	246	252	252	260	271	284	302	320	339	360	384	398	410
67.5	206	205	206	208	213	215	218	223	229	240	256	270	288	308	328	337	345
70.0	177	174	177	178	181	183	184	188	193	202	213	223	238	255	271	279	285
72.5	147	148	148	149	150	153	153	157	161	167	176	183	193	205	218	225	228
75.0	122	121	121	123	124	126	126	128	131	136	143	147	156	163	172	179	180
77.5	98	97	97	98	100	101	101	102	105	107	111	114	120	126	132	137	137
80.0	76	74	75	75	76	77	77	78	79	81	84	85	88	92	96	98	99
82.5	56	55	54	55	55	56	56	57	57	58	59	60	61	62	64	66	66
85.0	36	36	35	36	37	38	37	37	38	39	39	40	40	40	40	41	40
87.5	19	19	19	19	19	20	19	19	19	19	20	20	20	20	20	20	19
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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3" x 48" led with frosted acylic prised lens  
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**CANDELA VALUES**

ANGLE	75.0	80.0	85.0	90.0
0.0	1675	1675	1675	1675
2.5	1665	1662	1669	1681
5.0	1662	1657	1665	1675
7.5	1656	1651	1657	1667
10.0	1649	1642	1646	1655
12.5	1637	1629	1631	1640
15.0	1622	1611	1612	1621
17.5	1603	1591	1591	1598
20.0	1579	1567	1565	1570
22.5	1551	1538	1533	1540
25.0	1519	1505	1500	1503
27.5	1484	1467	1461	1463
30.0	1439	1423	1416	1419
32.5	1394	1377	1372	1372
35.0	1341	1326	1318	1318
37.5	1276	1266	1258	1258
40.0	1215	1207	1199	1202
42.5	1148	1139	1133	1132
45.0	1074	1068	1063	1064
47.5	994	991	986	990
50.0	913	915	913	914
52.5	832	832	834	832
55.0	742	750	753	757
57.5	659	668	671	676
60.0	581	586	594	592
62.5	498	508	511	516
65.0	426	434	438	441
67.5	363	368	373	372
70.0	297	305	307	306
72.5	241	247	249	250
75.0	189	194	197	195
77.5	144	148	150	148
80.0	101	105	107	105
82.5	67	69	69	70
85.0	41	41	42	41
87.5	19	19	19	20
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	25	28	35	44	24	27	33	43
20 30	22	24	26	32	21	22	24	30
20 40	22	22	23	26	20	20	21	24
20 60	21	22	22	24	19	20	20	21
30 20	27	29	34	42	26	28	32	41
30 30	23	24	25	30	22	23	24	29
30 40	22	22	22	25	21	21	21	23
30 60	22	22	21	22	20	20	19	20
30 80	22	22	20	22	21	21	19	20
40 20	29	31	35	42	28	30	34	41
40 30	25	26	26	30	24	25	25	29
40 40	24	24	23	25	23	22	22	23
40 60	23	23	21	22	22	21	20	20
40 80	23	23	21	21	22	21	19	20
40 100	23	23	21	21	22	22	20	20
60 30	27	28	27	31	26	27	26	30
60 40	25	25	24	25	24	24	22	24
60 60	24	24	22	22	23	23	20	21
60 80	24	23	21	21	23	22	20	20
60 100	24	23	21	21	23	23	20	20
100 40	30	29	27	28	29	28	26	27
100 60	28	27	24	24	27	26	23	23
100 80	27	26	23	23	26	25	22	22
100 100	27	26	23	23	26	25	22	22

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES