

**LUMINAIRE:** CWW4-50MWG-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:** 3911  
**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 #16275  
 DATE: 6/3/2016

**TOTAL LUMINAIRE EFFICIENCY = 100.0**  
**TOTAL LUMENS PER WATT = 112**

**ANSI/IESNA RP-1-2004 COMPLIANCE: NONCOMPLIANT**  
**COMPARATIVE YEARLY LIGHTING ENERGY COST PER 1000 LUMENS = \$2.14**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

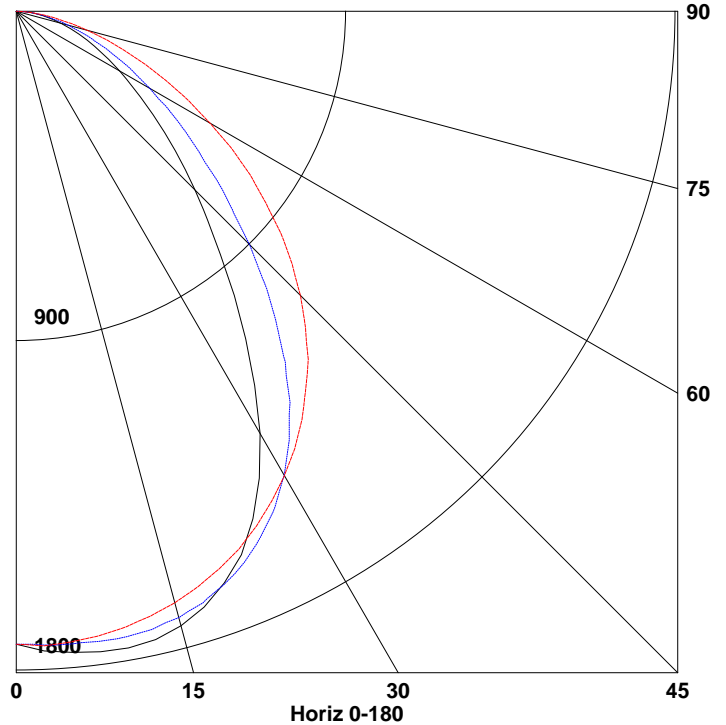
**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	1363	34.8	34.8
0-40	2147	54.9	54.9
0-60	3366	86.1	86.1
0-90	3911	100.0	100.0
0-180	3911	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	18991	18991	18991	18991	18991	18991
30	16893	16944	17857	18834	18999	18580
40	12445	12976	14266	16876	17923	17794
45	10702	11262	12458	15269	16978	17055
50	9278	9791	10868	13567	15703	16131
55	8043	8464	9460	11911	14151	14956
60	7161	7469	8282	10456	12565	13422
65	6393	6601	7277	9096	10994	11851
70	5845	6005	6423	7868	9442	10148
75	5347	5432	5772	6832	7893	8572
80	4934	4934	5124	5756	6452	6895
85	4663	4789	4915	5167	5167	5293

**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: \_\_\_\_\_

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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	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729	1729
2.5	1749	1756	1754	1749	1743	1732	1736	1735	1748	1741	1733	1737	1736	1734	1728	1722	1723
5.0	1758	1769	1766	1761	1753	1737	1746	1745	1756	1749	1735	1741	1739	1735	1727	1719	1722
7.5	1765	1777*	1774	1769	1760	1743	1752	1750	1760	1753	1736	1743	1739	1734	1725	1713	1718
10.0	1766	1776	1772	1766	1759	1743	1751	1750	1759	1754	1735	1741	1737	1731	1721	1706	1711
12.5	1758	1765	1759	1754	1747	1734	1740	1739	1750	1747	1728	1734	1729	1722	1712	1695	1700
15.0	1738	1741	1735	1733	1725	1715	1720	1721	1731	1732	1715	1720	1715	1709	1698	1681	1686
17.5	1707	1707	1701	1699	1693	1687	1689	1693	1703	1709	1695	1698	1695	1690	1680	1662	1668
20.0	1662	1659	1656	1654	1652	1647	1649	1655	1667	1676	1665	1671	1668	1664	1656	1639	1645
22.5	1607	1598	1594	1596	1594	1598	1595	1604	1619	1632	1629	1634	1634	1634	1626	1612	1617
25.0	1530	1517	1519	1520	1523	1532	1529	1543	1560	1580	1582	1591	1592	1594	1591	1579	1583
27.5	1438	1420	1426	1429	1442	1454	1453	1467	1490	1514	1529	1537	1543	1553	1553	1540	1544
30.0	1332	1314	1320	1328	1336	1360	1352	1376	1408	1438	1464	1476	1485	1495	1499	1493	1498
32.5	1212	1196	1203	1213	1233	1253	1252	1276	1311	1345	1388	1400	1421	1439	1447	1442	1446
35.0	1093	1080	1088	1098	1122	1144	1144	1171	1212	1253	1304	1318	1348	1370	1386	1389	1391
37.5	979	970	979	990	1012	1031	1031	1063	1101	1146	1207	1228	1263	1298	1313	1317	1324
40.0	868	872	872	888	905	923	927	954	995	1041	1103	1133	1177	1209	1236	1247	1250
42.5	774	777	781	795	811	826	832	857	895	940	1001	1032	1080	1122	1157	1174	1177
45.0	689	693	697	710	725	736	744	766	802	843	901	933	983	1032	1069	1088	1093
47.5	615	615	622	630	642	652	660	684	711	749	800	839	886	932	974	997	1009
50.0	543	541	548	557	573	580	589	609	636	665	713	749	794	844	888	912	919
52.5	478	476	483	489	505	511	521	538	560	588	628	664	706	754	796	819	831
55.0	420	420	422	431	442	450	457	472	494	520	554	584	622	665	705	730	739
57.5	369	370	370	378	387	396	399	412	433	455	486	514	548	584	621	644	652
60.0	326	322	326	329	340	345	349	361	377	395	422	448	476	511	544	562	572
62.5	285	283	285	289	292	299	301	311	326	342	363	386	410	436	464	482	495
65.0	246	245	247	252	254	260	260	268	280	293	311	330	350	372	396	411	423
67.5	213	212	213	215	220	222	225	230	237	247	265	279	297	318	339	348	356
70.0	182	180	182	183	187	189	190	194	200	208	220	230	245	264	280	288	294
72.5	152	153	153	154	155	158	158	162	166	173	181	189	200	212	225	232	235
75.0	126	125	125	127	128	130	130	132	136	140	148	152	161	168	178	184	186
77.5	101	100	100	101	103	104	104	105	109	111	115	117	124	130	137	141	141
80.0	78	76	77	77	78	79	79	80	81	84	87	88	91	95	99	101	102
82.5	58	56	55	56	56	58	58	59	59	60	61	62	63	64	66	68	68
85.0	37	37	36	37	38	39	38	38	39	39	40	40	41	41	41	42	41
87.5	20	20	20	20	20	21	20	20	20	20	21	21	21	21	21	21	20
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	1729	1729	1729	1729
2.5	1719	1715	1723	1735
5.0	1715	1711	1719	1729
7.5	1710	1705	1711	1721
10.0	1702	1695	1699	1709
12.5	1690	1682	1684	1693
15.0	1674	1663	1664	1673
17.5	1655	1643	1643	1649
20.0	1630	1618	1616	1621
22.5	1601	1587	1583	1590
25.0	1568	1554	1548	1552
27.5	1532	1515	1508	1510
30.0	1485	1469	1462	1465
32.5	1439	1421	1416	1416
35.0	1384	1369	1361	1361
37.5	1317	1307	1299	1299
40.0	1254	1246	1238	1241
42.5	1185	1176	1170	1169
45.0	1109	1102	1097	1098
47.5	1026	1023	1018	1022
50.0	943	945	943	944
52.5	859	859	861	859
55.0	766	775	777	781
57.5	680	690	692	698
60.0	600	605	613	611
62.5	514	524	527	533
65.0	439	448	452	456
67.5	374	380	385	384
70.0	307	315	317	316
72.5	248	255	257	258
75.0	195	201	203	202
77.5	149	153	155	153
80.0	104	109	111	109
82.5	69	72	72	73
85.0	42	42	43	42
87.5	20	20	20	21
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	24	27	34	44	23	26	32	42
20 30	22	23	25	31	20	21	23	29
20 40	21	21	23	26	19	20	20	23
20 60	20	21	21	23	19	19	19	21
30 20	26	28	33	41	25	27	31	40
30 30	23	23	25	30	21	22	23	28
30 40	22	22	22	24	20	20	20	22
30 60	21	21	20	22	20	20	18	20
30 80	21	21	20	21	20	20	18	19
40 20	28	30	34	41	28	30	33	40
40 30	25	25	25	30	24	24	24	28
40 40	23	23	22	24	22	22	21	23
40 60	22	22	21	21	21	21	19	20
40 80	22	22	20	21	21	21	19	19
40 100	23	22	20	21	22	21	19	19
60 30	26	27	27	30	26	26	26	29
60 40	25	24	23	24	24	23	22	23
60 60	23	23	21	22	23	22	20	20
60 80	23	23	20	21	22	22	19	19
60 100	23	23	20	21	23	22	19	19
100 40	29	28	26	27	28	27	25	27
100 60	27	26	23	24	26	25	22	23
100 80	26	25	22	23	26	25	21	22
100 100	26	25	22	22	26	25	21	21

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES