

**LUMINAIRE:** CWW4-30XWG-2WW-EDU  
 CWW Contemporary Wallwash, Recessed Architectural  
 3" x 48" led with frosted acrylic prisms lens  
**BALLAST:** XI040C110V054BPT1  
**BALLAST FACTOR:** 1.00  
**LAMP:** Led  
**FIXTURE LUMENS:** 2657  
**WATTS:** 24.80  
**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 #16.01156  
 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 = \$2.26**  
**BASED ON 3000 HRS. AND \$.08 PER KWH**

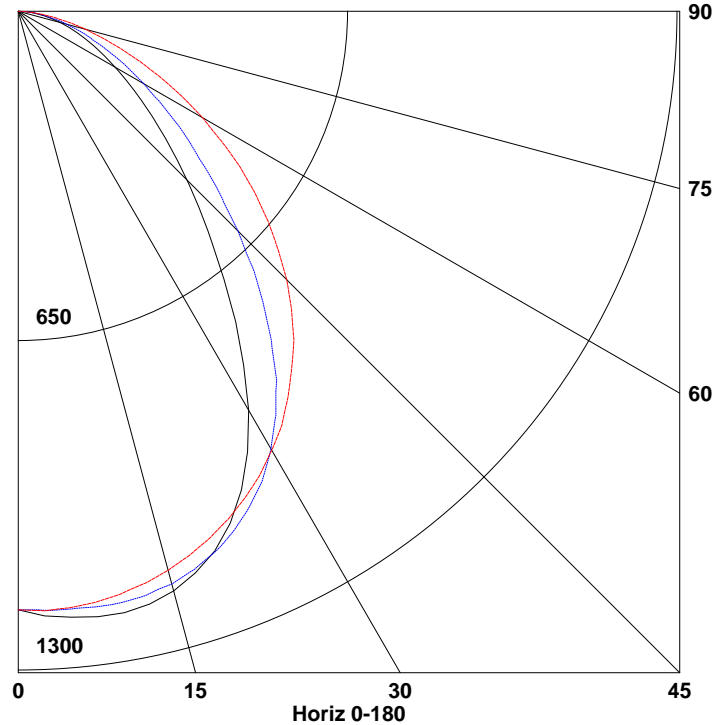
**ZONAL LUMENS**

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	929	35.0	35.0
0-40	1462	55.0	55.0
0-60	2289	86.1	86.1
0-90	2657	100.0	100.0
0-180	2657	100.0	100.0

**AVERAGE LUMINANCE**

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	12972	12972	12972	12972	12972	12972
30	11529	11491	12112	12835	12949	12683
40	8517	8761	9621	11442	12245	12130
45	7316	7596	8372	10361	11619	11634
50	6288	6596	7313	9142	10645	10987
55	5496	5707	6377	8062	9651	10207
60	4833	5031	5602	7051	8479	9226
65	4366	4444	4886	6186	7407	8083
70	3950	4046	4368	5331	6326	6905
75	3650	3692	3904	4583	5432	5856
80	3289	3352	3479	3858	4364	4744
85	3151	3151	3277	3403	3529	3655

**INDOOR CANDELA PLOT**



0.0 ——— 45.0 - - - - 90.0 . . . . 1300 - . - . -

**COEFFICIENTS OF UTILIZATION (%)**

**EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%**

**ZONAL CAVITY METHOD**

RC	EFFECTIVE FLOOR CAVITY REFLECTANCE = 20%																		
	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	97	94	96	93	91	92	90	88	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	69	76	72	67	74	70	66	64	
R	4	86	75	67	84	74	66	60	71	65	60	69	63	59	67	62	58	56	
C	5	80	68	59	78	67	59	53	65	58	52	63	57	52	61	56	51	49	
R	6	74	61	53	72	61	53	47	59	52	47	57	51	46	56	50	46	44	
	7	69	56	48	67	55	47	42	54	47	42	52	46	41	51	45	41	39	
	8	64	51	43	63	51	43	38	50	43	38	48	42	37	47	41	37	35	
	9	60	47	40	59	47	39	34	46	39	34	45	39	34	44	38	34	32	
	10	57	44	36	55	43	36	31	43	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:** CWW4-30XWG-2WW-EDU  
CWW Contemporary Wallwash, Recessed Architectural  
3" x 48" led with frosted acylic prisms lens

TEST #16.01156  
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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	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181	1181
2.5	1194	1197	1198	1194	1191	1182	1186	1185	1193	1188	1183	1187	1186	1184	1181	1176	1177
5.0	1200	1206	1206	1203	1198	1186	1193	1192	1199	1194	1184	1190	1188	1186	1181	1173	1176
7.5	1205	1211*	1211	1207	1202	1190	1197	1195	1202	1197	1185	1191	1189	1186	1180	1170	1174
10.0	1205	1210	1208	1204	1200	1189	1195	1193	1201	1196	1184	1189	1186	1182	1176	1164	1169
12.5	1198	1201	1199	1196	1191	1183	1186	1186	1194	1190	1179	1184	1181	1177	1170	1157	1162
15.0	1184	1183	1181	1179	1175	1169	1171	1171	1180	1179	1170	1173	1171	1167	1159	1147	1151
17.5	1162	1160	1157	1156	1153	1150	1150	1151	1160	1162	1155	1158	1157	1154	1147	1134	1139
20.0	1133	1128	1127	1126	1124	1124	1124	1125	1135	1140	1135	1138	1137	1136	1130	1119	1122
22.5	1093	1085	1083	1085	1084	1089	1085	1090	1103	1110	1110	1113	1115	1115	1110	1100	1104
25.0	1042	1028	1033	1034	1036	1045	1042	1047	1061	1074	1079	1083	1085	1088	1085	1076	1079
27.5	980	965	968	971	979	991	986	998	1014	1031	1043	1046	1051	1056	1058	1050	1052
30.0	909	888	891	902	906	927	919	935	955	977	997	1005	1012	1020	1024	1019	1021
32.5	827	810	816	822	835	855	848	867	889	916	946	953	966	978	986	983	984
35.0	748	734	738	744	759	780	773	794	818	849	889	896	917	931	944	946	948
37.5	667	656	663	669	681	702	699	718	746	779	821	834	858	880	894	899	900
40.0	594	587	591	597	611	629	626	647	671	705	752	766	798	820	842	850	854
42.5	530	525	529	535	548	561	561	580	603	635	683	699	733	760	787	800	805
45.0	471	469	472	478	489	499	502	519	539	569	613	633	667	698	727	741	748
47.5	416	414	417	425	433	442	445	460	481	504	545	567	601	635	662	680	687
50.0	368	368	371	376	386	394	397	412	428	451	483	506	535	570	602	619	623
52.5	325	323	327	332	341	348	352	365	380	400	428	450	476	508	540	558	563
55.0	287	284	286	290	298	305	307	320	333	351	376	395	421	448	478	496	504
57.5	252	250	252	256	262	269	269	280	293	308	329	346	369	395	420	438	446
60.0	220	218	221	223	229	234	236	245	255	269	286	303	321	344	368	382	386
62.5	193	190	191	195	198	203	203	209	219	230	247	261	279	297	317	329	334
65.0	168	165	167	169	171	175	176	181	188	197	210	221	238	254	271	281	285
67.5	145	144	145	146	149	151	152	156	161	169	178	188	199	213	226	237	239
70.0	123	122	124	124	126	128	129	132	136	142	149	157	166	177	187	195	197
72.5	104	103	103	104	105	107	107	109	113	116	123	127	135	144	152	158	161
75.0	86	85	85	86	87	88	88	90	92	95	99	102	108	114	121	125	128
77.5	69	68	68	68	69	70	70	71	72	75	78	80	83	87	92	95	98
80.0	52	51	52	52	53	54	53	54	55	56	58	59	61	64	66	69	69
82.5	38	37	37	37	37	38	38	38	39	40	41	42	43	44	45	46	46
85.0	25	24	24	25	25	26	25	25	26	26	26	26	27	26	28	28	28
87.5	13	12	12	12	13	13	12	13	13	13	14	13	13	13	13	13	14
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	1181	1181	1181	1181
2.5	1173	1171	1177	1184
5.0	1172	1169	1174	1181
7.5	1168	1164	1169	1176
10.0	1163	1157	1160	1167
12.5	1154	1148	1150	1156
15.0	1143	1135	1137	1142
17.5	1130	1121	1121	1125
20.0	1114	1104	1103	1106
22.5	1094	1084	1081	1084
25.0	1071	1060	1056	1059
27.5	1046	1033	1029	1032
30.0	1013	1004	1000	1000
32.5	981	970	966	968
35.0	944	932	927	928
37.5	900	891	886	886
40.0	856	850	844	846
42.5	808	800	796	798
45.0	755	750	747	749
47.5	698	697	695	695
50.0	641	641	640	643
52.5	581	585	585	589
55.0	521	527	528	533
57.5	462	469	469	474
60.0	405	412	415	420
62.5	350	359	362	364
65.0	298	307	310	311
67.5	252	258	261	262
70.0	207	213	215	215
72.5	167	172	174	173
75.0	132	136	138	138
77.5	101	102	104	105
80.0	71	73	75	75
82.5	47	49	50	50
85.0	28	29	29	29
87.5	13	13	13	14
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	34	37	45	55	32	35	43	53
20 30	30	32	35	42	28	30	32	40
20 40	29	30	32	35	27	28	29	32
20 60	29	29	30	32	27	27	27	29
30 20	35	38	44	52	34	37	42	51
30 30	31	32	34	40	30	31	32	38
30 40	30	30	30	33	28	28	28	31
30 60	29	29	28	30	28	27	26	28
30 80	29	29	28	29	28	28	26	27
40 20	38	40	45	52	37	39	43	51
40 30	33	34	35	39	32	33	33	38
40 40	32	31	31	33	30	30	29	31
40 60	30	30	29	30	29	29	27	28
40 80	30	30	28	29	29	29	26	27
40 100	31	30	28	29	30	29	26	27
60 30	35	36	36	40	34	35	35	39
60 40	33	33	32	33	32	32	30	32
60 60	32	31	29	30	31	30	27	28
60 80	31	31	28	29	30	30	26	27
60 100	32	31	28	28	30	30	26	27
100 40	38	37	35	36	37	36	34	35
100 60	36	35	32	32	35	34	30	31
100 80	35	34	30	31	34	33	29	29
100 100	35	33	30	30	34	32	29	28

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES