

LUMINAIRE: CWW4-40XWG-2WW-EDU
 CWW Contemporary Wallwash, Recessed Architectural
 3" x 48" led with frosted acrylic prisms lens
 Scaled from Test#16.01156
BALLAST: XI040C110V054BPT1
BALLAST FACTOR: 1.00
LAMP: Led
FIXTURE LUMENS: 2793
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 #16268

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 = \$2.14
BASED ON 3000 HRS. AND \$.08 PER KWH

ZONAL LUMENS

ZONE	LUMENS	% LAMP	% FIXTURE
0-30	976	35.0	35.0
0-40	1537	55.0	55.0
0-60	2406	86.1	86.1
0-90	2793	100.0	100.0
0-180	2793	100.0	100.0

AVERAGE LUMINANCE

ANGLE	CANDELA/SQ M					
	0.0	20.0	35.0	55.0	70.0	90.0
0	13631	13631	13631	13631	13631	13631
30	12112	12074	12733	13494	13609	13330
40	8947	9205	10108	12030	12876	12747
45	7689	7984	8792	10889	12209	12225
50	6613	6938	7689	9603	11192	11551
55	5783	5994	6702	8464	10149	10724
60	5074	5294	5887	7403	8919	9688
65	4600	4678	5146	6497	7797	8499
70	4143	4239	4592	5588	6648	7258
75	3819	3862	4116	4838	5729	6153
80	3479	3542	3669	4048	4617	4997
85	3277	3277	3403	3529	3655	3781

INDOOR CANDELA PLOT



0.0 ——— 45.0 ——— 90.0 ———

COEFFICIENTS OF UTILIZATION (%)

ZONAL CAVITY METHOD

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	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	61	84	74	66	60	71	65	60	69	63	59	67	62	58	56
C	5	80	68	59	53	78	67	59	53	65	58	52	63	57	52	61	56	51	49
R	6	74	61	53	47	72	61	53	47	59	52	47	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	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: _____

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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	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241	1241
2.5	1255	1258	1259	1255	1252	1242	1246	1245	1254	1249	1243	1248	1246	1244	1241	1236	1237
5.0	1261	1268	1268	1264	1259	1246	1254	1253	1260	1255	1244	1251	1249	1246	1241	1233	1236
7.5	1266	1273*	1273	1269	1263	1251	1258	1256	1263	1258	1245	1252	1250	1246	1240	1230	1234
10.0	1266	1272	1270	1265	1261	1250	1256	1254	1262	1257	1244	1250	1246	1242	1236	1223	1229
12.5	1259	1262	1260	1257	1252	1243	1246	1246	1255	1251	1239	1244	1241	1237	1230	1216	1221
15.0	1244	1243	1241	1239	1235	1229	1231	1231	1240	1239	1230	1233	1231	1227	1218	1206	1210
17.5	1221	1219	1216	1215	1212	1209	1209	1210	1219	1221	1214	1217	1216	1213	1206	1192	1197
20.0	1191	1186	1184	1183	1181	1181	1181	1182	1193	1198	1193	1196	1195	1194	1188	1176	1179
22.5	1149	1140	1138	1140	1139	1145	1140	1146	1159	1167	1167	1170	1172	1172	1167	1156	1160
25.0	1095	1080	1086	1087	1089	1098	1095	1100	1115	1129	1134	1138	1140	1143	1140	1131	1134
27.5	1030	1014	1017	1021	1029	1042	1036	1049	1066	1084	1096	1099	1105	1110	1112	1104	1106
30.0	955	933	936	948	952	974	966	983	1004	1027	1048	1056	1064	1072	1076	1071	1073
32.5	869	851	858	864	878	899	891	911	934	963	994	1002	1015	1028	1036	1033	1034
35.0	786	771	776	782	798	820	812	834	860	892	934	942	964	978	992	994	996
37.5	701	689	697	703	716	738	735	755	784	819	863	877	902	925	940	945	946
40.0	624	617	621	627	642	661	658	680	705	741	790	805	839	862	885	893	898
42.5	557	552	556	562	576	590	590	610	634	667	718	735	770	799	827	841	846
45.0	495	493	496	502	514	524	528	545	566	598	644	665	701	734	764	779	786
47.5	437	435	438	447	455	465	468	483	506	530	573	596	632	667	696	715	722
50.0	387	387	390	395	406	414	417	433	450	474	508	532	562	599	633	651	655
52.5	342	339	344	349	358	366	370	384	399	420	450	473	500	534	568	586	592
55.0	302	298	301	305	313	321	323	336	350	369	395	415	442	471	502	521	530
57.5	265	263	265	269	275	283	283	294	308	324	346	364	388	415	441	460	469
60.0	231	229	232	234	241	246	248	258	268	283	301	318	337	362	387	401	406
62.5	203	200	201	205	208	213	213	220	230	242	260	274	293	312	333	346	351
65.0	177	173	176	178	180	184	185	190	198	207	221	232	250	267	285	295	300
67.5	152	151	152	153	157	159	160	164	169	178	187	198	209	224	238	249	251
70.0	129	128	130	130	132	135	136	139	143	149	157	165	174	186	197	205	207
72.5	109	108	108	109	110	112	112	115	119	122	129	133	142	151	160	166	169
75.0	90	89	89	90	91	92	92	95	97	100	104	107	114	120	127	131	135
77.5	73	71	71	71	73	74	74	75	76	79	82	84	87	91	97	100	103
80.0	55	54	55	55	56	57	56	57	58	59	61	62	64	67	69	73	73
82.5	40	39	39	39	39	40	40	40	41	42	43	44	45	46	47	48	48
85.0	26	25	25	26	26	27	26	26	27	27	27	27	28	27	29	29	29
87.5	14	13	13	13	14	14	14	14	14	14	15	14	14	14	14	14	15
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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ANGLE	75.0	80.0	85.0	90.0
0.0	1241	1241	1241	1241
2.5	1233	1231	1237	1244
5.0	1232	1229	1234	1241
7.5	1228	1223	1229	1236
10.0	1222	1216	1219	1227
12.5	1213	1207	1209	1215
15.0	1201	1193	1195	1200
17.5	1188	1178	1178	1182
20.0	1171	1160	1159	1162
22.5	1150	1139	1136	1139
25.0	1126	1114	1110	1113
27.5	1099	1086	1081	1085
30.0	1065	1055	1051	1051
32.5	1031	1019	1015	1017
35.0	992	980	974	975
37.5	946	936	931	931
40.0	900	893	887	889
42.5	849	841	837	839
45.0	794	788	785	787
47.5	734	733	730	730
50.0	674	674	673	676
52.5	611	615	615	619
55.0	548	554	555	560
57.5	486	493	493	498
60.0	426	433	436	441
62.5	368	377	380	383
65.0	313	323	326	327
67.5	265	271	274	275
70.0	218	224	226	226
72.5	176	181	183	182
75.0	139	143	145	145
77.5	106	107	109	110
80.0	75	77	79	79
82.5	49	52	53	53
85.0	29	30	30	30
87.5	14	14	14	15
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	32	36	44	54	31	34	41	52
20 30	29	31	34	41	27	28	31	38
20 40	28	29	30	34	26	27	28	31
20 60	27	28	29	31	26	26	26	28
30 20	34	37	42	51	33	36	41	50
30 30	30	31	33	38	29	29	31	37
30 40	29	29	29	32	27	27	27	30
30 60	28	28	27	29	26	26	25	27
30 80	28	28	27	28	27	27	25	26
40 20	37	39	43	50	36	38	42	50
40 30	32	33	33	38	31	31	32	37
40 40	30	30	30	32	29	29	28	30
40 60	29	29	27	28	28	28	26	27
40 80	29	29	27	28	28	28	25	26
40 100	30	29	27	27	29	28	25	26
60 30	34	35	35	39	33	34	33	38
60 40	32	32	30	32	31	31	29	31
60 60	31	30	28	29	30	29	26	27
60 80	30	30	27	27	29	29	25	26
60 100	31	30	27	27	30	29	25	26
100 40	37	36	34	35	36	35	33	34
100 60	35	34	31	31	34	32	29	30
100 80	34	33	29	29	33	32	28	28
100 100	34	32	29	29	33	31	28	27

DETERMINED IN ACCORDANCE W/CURRENT IES PUBLISHED PROCEDURES