



Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	10	50	30	20	10	50	30	20	10	0
RCR: 0	1.19	1.19	1.19	1.19	1.16	1.16	1.16	1.00	1.11	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.02	1.00	1.00
1	1.13	1.10	1.08	1.05	1.11	1.08	1.06	.93	1.04	1.02	1.01	1.00	.99	.98	.97	.96	.95	.95	.93	.93	.93
2	1.07	1.02	.98	.94	1.05	1.00	.97	.86	.97	.94	.91	.94	.92	.89	.91	.89	.87	.86	.86	.87	.86
3	1.01	.95	.89	.85	.99	.93	.88	.80	.91	.86	.83	.88	.85	.82	.86	.83	.81	.79	.86	.83	.79
4	.96	.88	.82	.78	.94	.87	.81	.74	.84	.80	.76	.82	.78	.75	.81	.77	.74	.73	.76	.72	.69
5	.91	.82	.76	.71	.89	.81	.75	.68	.79	.74	.70	.77	.73	.69	.76	.72	.69	.67	.76	.72	.69
6	.86	.76	.70	.65	.84	.75	.69	.63	.74	.69	.65	.72	.68	.64	.71	.67	.64	.62	.71	.67	.64
7	.81	.71	.65	.60	.80	.70	.64	.59	.69	.64	.60	.68	.63	.59	.67	.62	.59	.58	.67	.62	.59
8	.77	.67	.60	.56	.75	.66	.60	.55	.65	.59	.56	.64	.59	.55	.63	.58	.55	.54	.63	.58	.55
9	.73	.62	.56	.52	.72	.62	.56	.51	.61	.56	.52	.60	.55	.52	.59	.55	.51	.50	.59	.55	.51
10	.69	.59	.53	.48	.68	.58	.52	.48	.57	.52	.48	.57	.52	.48	.56	.51	.48	.47	.56	.51	.48

Zonal Lumen Tabulation - Flood Type

	-88.75	-86.25	-83.75	-81.25	-78.75	-76.25	-73.75	-71.25	-68.75	-66.25	-63.75	-61.25	-58.75	-56.25	-53.75	-51.25	-48.75	-46.25	-43.75	-41.25	-38.75	-36.25	-33.75	-31.25	-28.75	-26.25	-23.75	-21.25	-19.75
88.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
83.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
81.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
78.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
76.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
73.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
71.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
63.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
61.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
58.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1
51.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0
48.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0
46.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0
43.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0
41.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.1
38.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.3	0.1
36.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.1
33.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.1
31.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.1
28.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.2
26.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.7	0.8	0.9	0.2	0.2
23.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1	0.2	0.2
21.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.9	1	1.1	0.2	0.2	0.1
19.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.1
18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1	0.2	0.2
16.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.3	0.3	0.4	0.5	0.6	0.7	0.8	0.2	0.2
15.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.5	0.1
13.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	1	1.1	1.3	1.4	0.3	0.3
11.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.8	1	1.2	1.4	1.5	0.3	0.3
8.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.4	1.5	0.3	0.3
6.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	0.3	0.3
4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.1	0.1
3.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.1	0.1
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.1	0.1
2.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.1	0.1
1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.1	0.1
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.1	0.1
-0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.6	0.1	0.1
-1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.1	0.1
-2.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.3	0.1	0.1
-3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.1	0.1
-3.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.3	0.1	0.1
-4.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.2	0.3	0.4	0.5	0.5	0.6	0.7	0.1	0.1
-6.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.6	0.7	0.9	1.1	1.3	1.5	1.6	0.3	0.3
-8.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1.1	1.3	1.5	1.6	0.3	0.3
-11.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.4	0.5	0.7	0.8	1	1.2	1.4	1.6	0.3	0.3
-13.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.5	0.6	0.8	1	1.1	1.3	1.5	0.3	0.3
-15.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.2	0.3	0.4	0.4	0.5	0.6	0.1	0.1
-16.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.2	0.2
-18.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.3	0.4	0.5	0.6	0.8	0.9	1.1	0.2	0.2
-19.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.1	0.1
-21.25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.2	0.2	0.4	0.5	0.7	0.8	1	1.2	0.3
-23.75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	0.1	0.1	0.2	0.3	0.4	0.5	0.7	0.9	1	0.2</

Maximum Im: 1.9
Field Im: 1,010.6
Total Im: 1,063.2

Candela Table - Type C

	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185	190	195	200	205	210					
0	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747	747			
1	740	741	741	742	739	745	745	727	747	751	748	747	740	758	757	760	757	742	766	767	754	767	768	752	771	752	772	758	774	777	760	775	773	757	776	772	755	749	752	761	758	763	75					
2	735	734	733	732	742	748	750	753	753	743	744	759	760	768	766	770	771	765	773	775	789	779	790	788	786	784	793	800	799	787	805	801	800	804	805	804	796	794	782	770	787	786	78					
3	731	731	737	741	741	752	735	750	762	765	766	776	759	778	784	793	796	799	785	805	806	801	803	816	822	823	825	827	829	808	828	827	823	832	824	832	823	821	795	805	799	811	80					
4	740	742	742	748	753	759	753	767	771	774	783	781	789	803	784	807	801	813	818	825	818	836	839	843	844	841	845	850	851	855	856	855	859	861	861	864	851	848	842	844	840	815	81					
5	738	742	748	756	760	768	754	777	776	779	801	812	809	824	829	832	822	840	847	829	841	854	845	873	872	876	878	882	881	877	889	881	891	891	894	896	881	868	875	860	872	845	85					
6	733	749	751	750	760	769	766	778	793	799	799	825	834	831	836	845	848	858	854	876	863	883	869	878	876	904	893	901	887	888	912	894	918	906	904	923	908	903	901	891	898	891	88					
7	747	745	751	760	757	764	780	788	803	810	821	840	841	835	862	858	873	863	884	882	897	879	890	906	901	920	925	929	922	931	911	939	916	941	934	941	935	931	928	920	917	910	90					
8	727	753	757	761	761	766	782	774	807	824	828	852	863	857	874	857	880	876	881	876	900	916	926	935	928	939	940	925	944	942	927	948	953	963	954	968	944	938	936	927	930	923	91					
9	746	750	756	763	767	755	774	799	812	824	833	842	867	879	883	880	887	890	902	914	897	911	936	945	938	955	945	938	962	937	941	972	975	980	982	981	958	964	940	962	945	949	92					
10	747	733	751	765	769	759	782	806	814	840	855	849	861	868	884	882	907	902	895	924	930	922	951	960	965	965	943	957	968	977	976	977	986	990	987	996	987	988	984	980	975	954	96					
11	724	737	755	754	777	774	781	809	827	839	859	862	873	879	898	906	887	914	922	929	920	945	938	966	960	975	960	978	970	966	973	976	998	1003	998	984	1007	991	999	996	966	983	97					
12	742	731	754	761	768	787	795	806	809	833	865	881	886	887	881	909	915	903	924	928	939	955	966	951	978	980	985	984	976	984	992	990	1010	1008	992	1021	1008	997	1013	982	988	991	98					
13	739	753	757	769	779	791	799	798	832	841	861	886	893	876	894	898	916	923	921	925	942	951	957	961	986	975	993	988	997	997	1003	1011	991	1024	1016	1005	1019	1025	1024	1002	991	981	97					
14	750	753	759	770	770	790	808	809	830	852	854	887	902	896	895	904	916	922	911	941	950	963	973	957	970	976	999	975	980	1004	988	1000	1020	1019	1011	1039	1038	1036	1020	1007	1002	997	100					
15	758	755	775	776	793	783	818	816	841	842	862	894	907	900	916	917	913	925	940	928	955	961	960	982	978	1000	1000	994	999	1005	991	1022	1012	1009	1029	1039	1043	1042	1036	1014	1026	1020	100					
16	754	774	774	783	803	792	818	836	839	868	871	877	887	915	909	917	908	925	943	933	964	961	972	980	994	995	992	988	1010	1014	1023	1009	1027	1025	1032	1036	1016	1031	1042	1022	1031	1029	101					
17	772	780	786	783	811	819	830	848	848	866	887	895	904	914	918	932	936	942	939	945	947	974	974	983	988	991	1003	1001	1015	1011	1024	1030	1036	1033	1041	1041	1027	1041	1011	1032	102							
18	764	791	781	795	816	821	844	854	851	878	885	885	894	916	900	929	920	946	948	951	957	970	957	974	985	991	977	1007	1012	992	1019	1031	1009	1036	1023	1037	1029	1022	1021	1029	1007	1016	100					
19	773	786	795	815	826	834	848	857	877	888	886	905	905	923	926	934	927	939	953	956	948	958	979	968	989	969	1000	985	1003	1019	1005	1014	1027	1028	1026	1025	1026	1025	1021	996	1022	100						
20	790	801	803	817	820	837	846	847	856	867	868	882	902	889	920	911	929	932	929	947	935	939	961	955	975	970	986	976	991	993	1008	1009	1005	1000	1016	1010	1019	1003	1015	1013	997	1007	99					
21	792	792	804	794	806	834	839	839	862	867	880	871	893	894	907	902	905	912	907	936	941	939	939	936	941	967	971	974	983	980	985	991	970	974	969	998	978	1000	982	989	995	990	97					
22	790	781	800	802	815	808	836	844	838	855	867	860	881	868	888	879	907	911	909	910	923	924	939	932	924	934	945	942	961	966	946	974	959	959	974	971	951	977	956	972	963	957	93					
23	778	781	789	785	807	816	826	825	834	838	840	852	841	865	874	870	877	893	882	901	902	895	907	913	900	904	929	936	934	930	945	947	942	947	942	926	935	938	947	932	941	923	92					
24	768	768	760	761	791	783	795	803	818	813	830	813	832	841	832	852	845	872	868	872	858	881	883	881	886	896	887	895	910	913	914	914	914	911	907	905	892	905	917	914	913	891	882	88				
25	742	746	758	764	776	785	786	787	794	806	794	802	813	807	832	831	835	835	839	826	829	853	856	854	862	850	866	850	854	877	855	871	866	859	847	880	871	877	865	870	868	85						
26	713	724	721	727	744	751	750	754	770	770	774	773	792	796	789	794	801	800	792	812	813	804	813	821	809	807	835	825	825	822	832	833	811	813	830	817	834	840	832	831	807	824	81					
27	703	694	708	704	711	725	724	721	739	734	733	756	757	744	766	760	758	771	774	767	768	779	761	762	783	776	786	772	777	776	772	784	789	766	780	773	788	792	791	778	776	778	76					
28	679	672	681	681	674	683	694	680	705	691	717	715	705	721	728	722	718	727	721	714	736	736	726	737	749	748	747	748	743	724	742	744	724	723	734	729	747	746	732	737	728	71						
29	644	644	649	650	652	638	647	645	663	657	670	681	670	690	690	675	676	695	692	688	691	690	698	700	686	692	698	705	702	689	680	690	684	684	685	690	682	692	676	690	691	686	67					
30	609	608	600	613	616	615	625	616	629	633	640	642	646	644	645	634	644	652	649	652	647	636	653	648	642	656	656	657	650	643	652	633	647	632	631	626	629	630	619	634	634	637	63					
31	574	572	577	578	576	584	588	584	581	598	598	603	599	591	608	608	602	605	608	600	604	607	608	607	604	612	609	601	603	596	589	574	569	571	573	565	561	573	565	561	537	58						
32	52																																															

[illegible]

1/22/2020

Luminaire Report Summary

IESNA:LM-63-2002
[LUMCAT] CTR180857-17D
[LUMINAIRE] 16162CBR30
[LAMP] Integrated LED DC
[TEST] LM-79 Distribution
[TESTLAB] Kichler Lighting LLC
[ISSUEDATE] 1/22/2020
[MANUFAC] Kichler Lighting LLC

FILE: CREATED USING ABSOLUTE PHOTOMETRY
FILE: CANDELA MULTIPLIER: 1
FILE: VERTICAL ANGLES: 181, HORIZONTAL ANGLES: 73
FILE: COORDINATE SYSTEM: TYPE C
FILE: UNIT OF MEASURE: STANDARD
FILE: BALLAST FACTOR: 1

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Reported data calculated from manufacturer's data file, based on IES recommended methods.