

Family Correlated Photometric Data

The following photometric information is developed using correlated data. Finelite considers a family to be a group of luminaires where critical performance metrics such as photometric performance, thermal performance, and electrical performance can be accurately projected via a combination of LM79 tests at the luminaire level and well-documented specifications at the component level.

For more information, please download [Finelite's Family Correlated White Paper](#)

Additional links:

- [Solid-State Lighting: Early Lessons Learned on the Way to Market](#)
(U.S. Department of Energy)
- [Lighting Facts®](#)
- [Design Lights Consortium®](#)

IES INDOOR REPORT

PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-V-835-ASY-ITL89988-ITL90233.200.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.200 Family Correlation file

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/16/17

[ISSUEDATE]03/06/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HO4-ID-RO-4ft-V-V-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 71.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 73.5 WATTS

[OTHER]see www.finelite.com for source files ITL89988 AND ITL90233. For further details on Finelite family correlation files, go to

[more]http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf

[_ABSOLUTE LUMENS]8494

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	8494
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	118
Total Luminaire Watts	71.8
Ballast Factor	1.00
CIE Type	General Diffuse
Spacing Criterion (0-180)	N.A.
Spacing Criterion (90-270)	N.A.
Spacing Criterion (Diagonal)	N.A.
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	10608	10008	9937
55	10640	10190	10103
65	10677	10736	11918
75	10680	14250	16309
85	10794	18627	7164

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	1246	1246	1246	1246	1246	1246	1246	1246	1246
2.5	1245	1244	1240	1237	1237	1237	1240	1244	1245
5.0	1243	1237	1230	1226	1223	1225	1230	1237	1243
7.5	1238	1228	1218	1211	1210	1210	1218	1228	1238
10.0	1231	1216	1203	1196	1193	1195	1203	1215	1231
12.5	1222	1200	1187	1179	1174	1178	1187	1199	1222
15.0	1211	1184	1170	1161	1156	1160	1170	1182	1211
17.5	1198	1165	1150	1141	1136	1141	1150	1163	1198
20.0	1183	1146	1130	1121	1116	1120	1130	1143	1183
22.5	1164	1124	1108	1100	1095	1099	1108	1121	1164
25.0	1143	1099	1084	1077	1073	1076	1084	1096	1143
27.5	1120	1074	1060	1053	1049	1052	1060	1071	1120
30.0	1095	1048	1033	1028	1025	1027	1033	1044	1095
32.5	1067	1019	1006	1001	998	1000	1006	1015	1067
35.0	1038	989	977	973	971	973	977	985	1038
37.5	1009	958	948	945	943	945	948	954	1009
40.0	974	925	916	914	913	914	916	921	974
42.5	938	890	883	882	878	882	883	886	938
45.0	901	854	850	848	844	848	850	850	901
47.5	861	816	815	811	806	810	815	812	861
50.0	819	779	779	773	766	773	779	774	819
52.5	777	739	742	733	725	733	742	735	777
55.0	733	699	702	691	696	690	702	695	733
57.5	686	658	660	663	671	662	660	654	686
60.0	639	615	617	637	649	637	617	612	639
62.5	593	573	575	612	627	614	575	570	593
65.0	542	529	545	589	605	591	545	526	542
67.5	492	486	517	566	585	569	517	482	492
70.0	440	443	492	545	563	548	492	438	440
72.5	386	397	468	522	538	525	468	391	386
75.0	332	356	443	494	507	498	443	350	332
77.5	277	324	415	458	464	461	415	319	277
80.0	222	293	379	401	396	404	379	291	222
82.5	167	260	321	303	274	304	321	263	167
85.0	113	214	195	116	75	112	195	225	113
87.5	63	110	78	62	48	61	78	117	63
90.0	32	70	65	52	40	51	65	74	32
92.5	67	68	58	61	22	58	91	109	116
95.0	142	145	146	149	57	92	141	167	175
97.5	224	239	272	226	93	122	186	224	235
100.0	347	367	398	300	130	155	223	270	286
102.5	469	492	520	373	169	188	263	305	321
105.0	582	627	647	445	207	219	294	344	355
107.5	717	794	780	511	247	247	324	378	388
110.0	903	979	907	567	287	275	355	413	423
112.5	1129	1162	1032	616	328	302	386	447	459
115.0	1335	1341	1134	661	369	330	414	480	493
117.5	1528	1498	1206	700	410	359	440	513	527
120.0	1683	1615	1250	737	455	390	463	542	560
122.5	1795	1692	1275	775	501	420	485	571	592
125.0	1861	1728	1288	811	545	449	504	593	620
127.5	1884	1733	1296	846	590	479	522	611	645
130.0	1874	1718	1302	883	634	508	539	622	660
132.5	1843	1693	1309	921	679	537	557	630	665

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-V-835-ASY-ITL89988-ITL90233.200.IES****CANDELA TABULATION - (Cont.)**

135.0	1803	1664	1318	959	724	571	574	636	667
137.5	1762	1636	1329	999	770	608	592	642	667
140.0	1721	1610	1341	1039	817	648	609	647	667
142.5	1685	1591	1354	1079	863	690	626	652	667
145.0	1657	1575	1367	1118	909	731	644	659	668
147.5	1633	1563	1383	1156	955	773	666	669	673
150.0	1614	1554	1400	1192	1001	818	694	680	681
152.5	1597	1546	1417	1225	1043	866	734	694	690
155.0	1581	1541	1432	1254	1084	917	783	715	706
157.5	1572	1539	1443	1280	1123	969	836	751	732
160.0	1565	1537	1450	1302	1159	1019	890	807	780
162.5	1552	1530	1451	1319	1192	1068	946	870	844
165.0	1537	1515	1446	1332	1220	1113	1009	933	910
167.5	1512	1494	1433	1339	1244	1154	1069	1001	978
170.0	1480	1466	1416	1342	1265	1192	1126	1077	1059
172.5	1440	1431	1392	1339	1280	1225	1178	1144	1132
175.0	1401	1392	1366	1332	1293	1255	1225	1204	1196
177.5	1351	1347	1334	1318	1299	1280	1265	1254	1250
180.0	1302	1302	1302	1302	1302	1302	1302	1302	1302

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-V-835-ASY-ITL89988-ITL90233.200.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	448.25	N.A.	5.30
0-30	951.79	N.A.	11.20
0-40	1568.91	N.A.	18.50
0-60	2857.78	N.A.	33.60
0-80	3862.24	N.A.	45.50
0-90	4055.52	N.A.	47.70
10-90	3938.75	N.A.	46.40
20-40	1120.66	N.A.	13.20
20-50	1780.57	N.A.	21.00
40-70	1843.82	N.A.	21.70
60-80	1004.45	N.A.	11.80
70-80	449.51	N.A.	5.30
80-90	193.29	N.A.	2.30
90-110	585.20	N.A.	6.90
90-120	1277.51	N.A.	15.00
90-130	2073.8	N.A.	24.40
90-150	3458.45	N.A.	40.70
90-180	4438.71	N.A.	52.30
110-180	3853.51	N.A.	45.40
0-180	8494.23	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	116.77
10-20	331.48
20-30	503.54
30-40	617.11
40-50	659.92
50-60	628.96
60-70	554.94
70-80	449.51
80-90	193.29
90-100	153.45
100-110	431.74
110-120	692.31
120-130	796.29
130-140	743.40
140-150	641.26
150-160	512.67
160-170	344.80
170-180	122.79

IES INDOOR REPORT

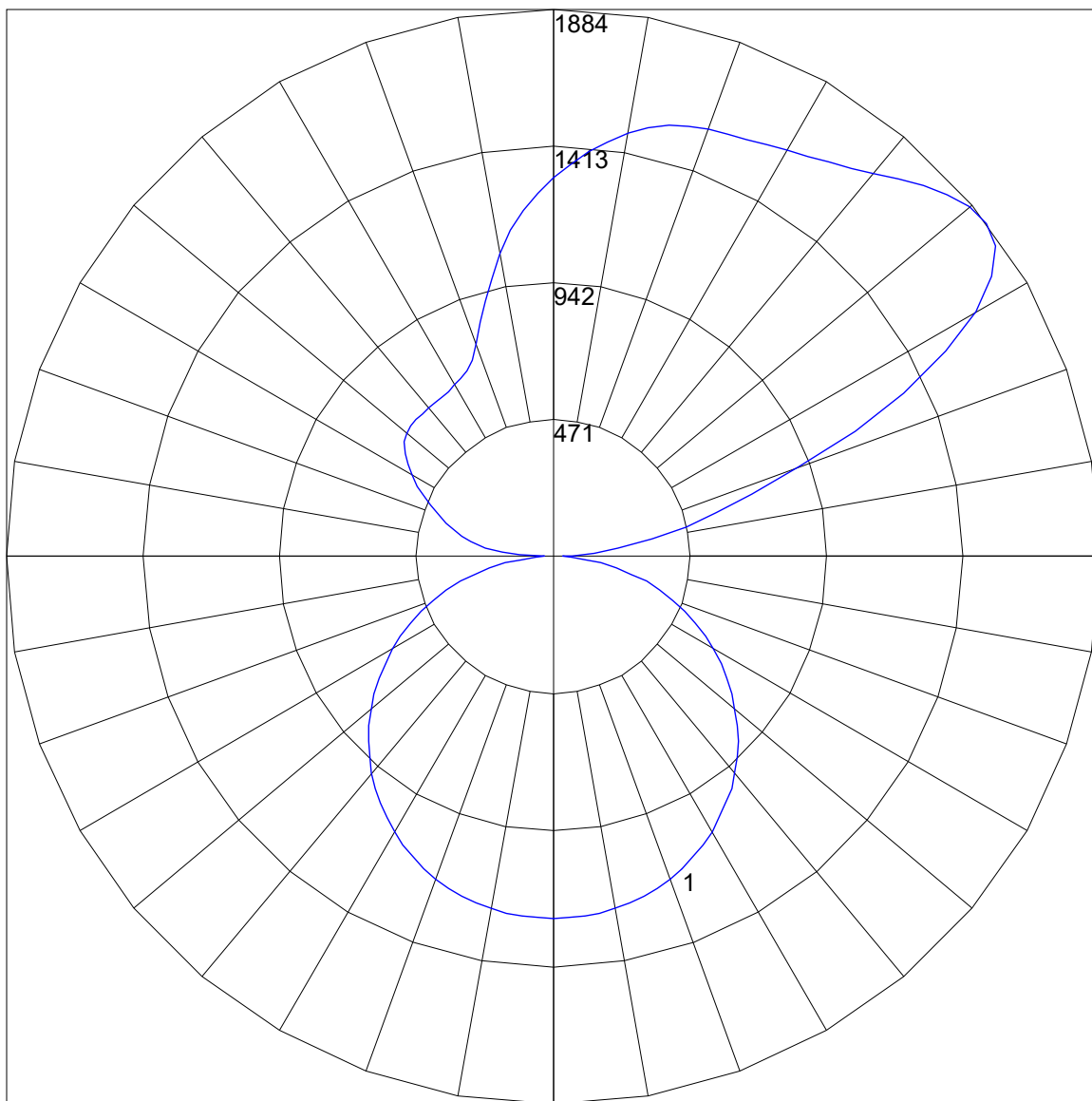
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	96	91	87	83	88	84	80	77	70	68	65	58	56	54	46	45	43	38
2	87	79	72	67	80	73	67	62	61	57	53	50	47	44	40	37	36	31
3	79	69	61	55	72	63	57	51	53	48	44	44	40	37	35	32	30	25
4	72	61	52	46	66	56	49	43	47	41	37	39	34	31	31	28	25	21
5	66	54	45	39	60	50	42	37	42	36	32	34	30	27	28	24	22	18
6	61	48	40	34	55	44	37	32	37	32	27	31	26	23	25	21	19	16
7	56	43	35	29	51	40	33	28	34	28	24	28	24	20	23	19	17	14
8	52	39	31	26	47	36	29	24	31	25	21	26	21	18	21	17	15	12
9	48	36	28	23	44	33	26	22	28	23	19	24	19	16	19	16	13	11
10	45	33	25	21	41	30	24	19	26	21	17	22	17	14	18	14	12	10

POLAR GRAPH



Maximum Candela = 1884 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)