

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 : HP-2-ID-4FT-V-V-8TW-ITL85132.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85132.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/11/15
[ISSUE DATE]02/10/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-ID-4ft-V-V-8TW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com for lumen adjustment factors for other CCT's & CRI
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 81.2 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 82.8 WATTS
[OTHER]see www.finelite.com for source file ITL85132. 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]6988

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6988
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	86
Total Luminaire Watts	81.2
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)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	16081	15416	14664
55	14637	13923	13208
65	13220	12537	11927
75	11908	11262	10793
85	10452	10103	9581

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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>
0.0	1314	1314	1314	1314	1314
2.5	1311	1313	1312	1312	1312
5.0	1306	1307	1305	1304	1304
7.5	1295	1296	1293	1292	1292
10.0	1281	1279	1277	1276	1274
12.5	1262	1258	1256	1253	1249
15.0	1241	1233	1231	1225	1220
17.5	1215	1204	1201	1192	1186
20.0	1185	1172	1167	1156	1147
22.5	1150	1136	1130	1118	1107
25.0	1114	1098	1089	1076	1064
27.5	1073	1059	1048	1031	1018
30.0	1031	1016	1003	984	971
32.5	986	971	957	936	926
35.0	942	925	910	887	877
37.5	895	879	862	840	829
40.0	847	830	815	790	780
42.5	798	782	766	741	731
45.0	749	734	718	693	683
47.5	700	685	669	645	636
50.0	650	636	621	597	589
52.5	601	588	573	551	543
55.0	553	542	526	506	499
57.5	506	496	480	462	456
60.0	458	449	435	418	413
62.5	413	404	391	378	372
65.0	368	360	349	337	332
67.5	326	317	309	297	293
70.0	283	277	268	260	255
72.5	242	237	230	223	219
75.0	203	198	192	187	184
77.5	165	161	157	153	149
80.0	128	126	122	119	117
82.5	93	91	89	87	85
85.0	60	59	58	57	55
87.5	27	26	27	28	27
90.0	0	0	0	0	0
92.5	30	30	30	33	33
95.0	71	68	68	69	70
97.5	112	109	107	108	108
100.0	154	149	149	149	148
102.5	198	194	192	191	191
105.0	244	241	236	235	234
107.5	291	288	282	281	280
110.0	340	337	332	330	327
112.5	391	386	383	378	375
115.0	442	439	437	427	425
117.5	496	491	491	479	477
120.0	551	543	545	533	529
122.5	603	595	599	589	582
125.0	661	649	653	643	638
127.5	718	705	707	699	697
130.0	774	761	763	753	754
132.5	830	816	819	809	809

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CANDELA TABULATION - (Cont.)

135.0	884	871	875	866	866
137.5	939	926	930	922	921
140.0	994	981	984	979	976
142.5	1046	1032	1036	1031	1027
145.0	1099	1084	1088	1084	1077
147.5	1148	1133	1138	1132	1125
150.0	1195	1180	1186	1179	1173
152.5	1240	1225	1231	1225	1219
155.0	1283	1268	1275	1269	1263
157.5	1320	1306	1314	1308	1302
160.0	1356	1343	1350	1344	1338
162.5	1387	1376	1381	1377	1373
165.0	1415	1405	1408	1406	1403
167.5	1436	1430	1432	1430	1429
170.0	1455	1452	1453	1451	1450
172.5	1471	1470	1470	1469	1469
175.0	1482	1482	1482	1482	1481
177.5	1488	1489	1489	1489	1488
180.0	1492	1492	1492	1492	1492

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	469.77	N.A.	6.70
0-30	970.35	N.A.	13.90
0-40	1538.16	N.A.	22.00
0-60	2559.88	N.A.	36.60
0-80	3110.68	N.A.	44.50
0-90	3174.64	N.A.	45.40
10-90	3050.93	N.A.	43.70
20-40	1068.39	N.A.	15.30
20-50	1620.19	N.A.	23.20
40-70	1368.07	N.A.	19.60
60-80	550.80	N.A.	7.90
70-80	204.45	N.A.	2.90
80-90	63.96	N.A.	0.90
90-110	329.21	N.A.	4.70
90-120	759.73	N.A.	10.90
90-130	1340.41	N.A.	19.20
90-150	2691.63	N.A.	38.50
90-180	3813.36	N.A.	54.60
110-180	3484.15	N.A.	49.90
0-180	6988.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	123.70
10-20	346.07
20-30	500.58
30-40	567.81
40-50	551.80
50-60	469.91
60-70	346.35
70-80	204.45
80-90	63.96
90-100	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

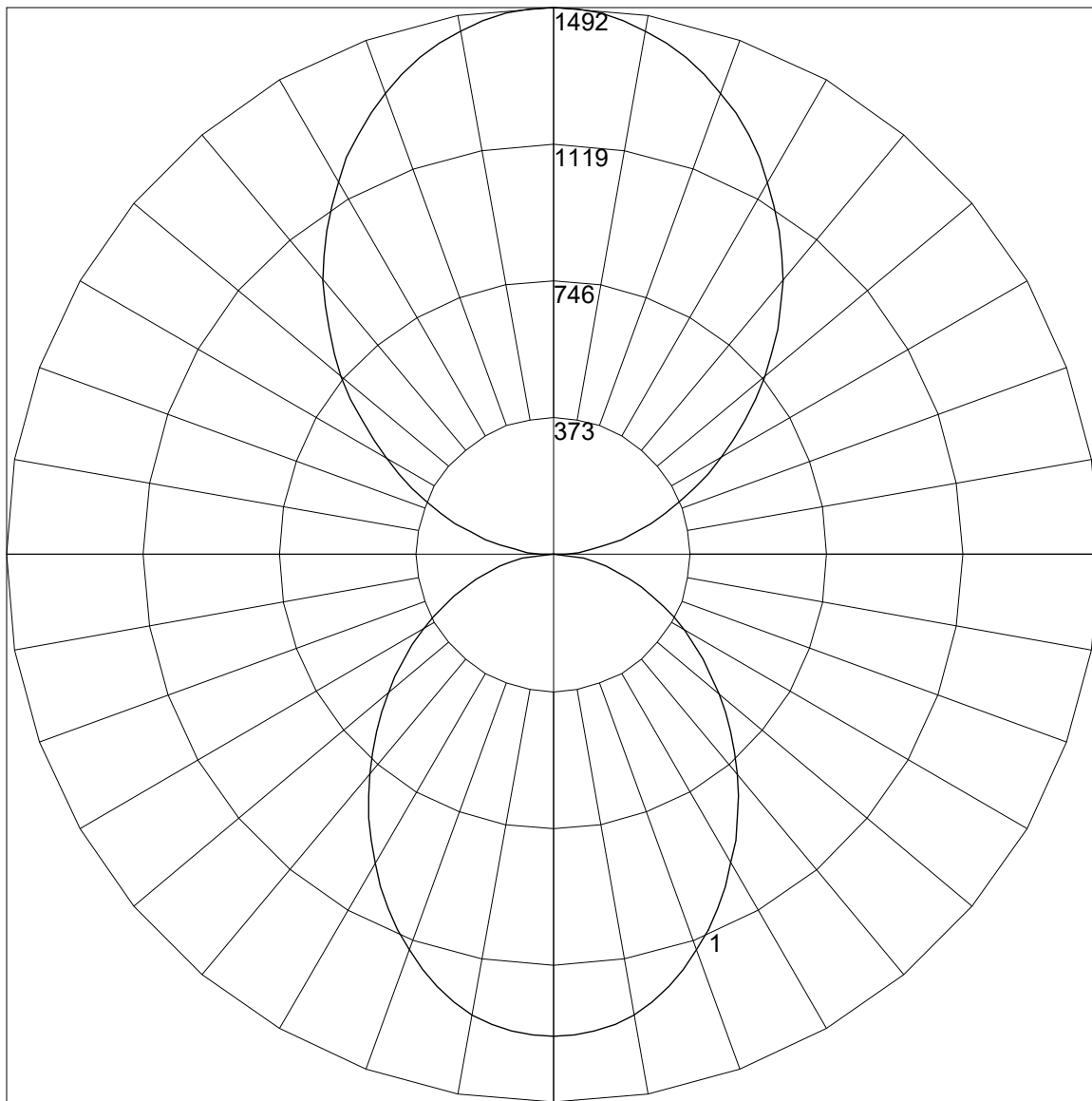
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	92	89	85	89	85	82	79	71	68	66	58	56	55	46	45	44	38
2	88	81	75	70	81	74	69	65	62	58	55	51	48	46	40	39	37	32
3	80	71	64	58	74	65	59	54	55	50	46	45	42	39	36	34	32	27
4	74	63	55	49	67	58	51	46	49	44	40	40	36	33	32	30	27	24
5	68	56	48	42	62	52	45	40	44	38	34	36	32	29	29	26	24	21
6	62	50	42	37	57	47	40	34	39	34	30	33	29	25	26	23	21	18
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	34	28	49	38	31	27	33	27	23	27	23	20	22	19	17	14
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	17	15	13
10	47	35	27	23	43	32	26	21	28	22	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1492 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)