

# 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-WSO-DSO-ABL-8H-ITL89456-ITL94139.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-ITL94139.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]06/23/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-V-8TW-WSO-DSO-ABL-8H

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 79.2 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 80.3 WATTS

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL89456 and ITL94139. 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](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)

[\_ABSOLUTE]LUMENS]7291

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	92
Total Luminaire Watts	79.2
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	13827	17477	17949
55	12573	16093	16093
65	11280	14298	13902
75	10031	12201	11556
85	8710	9232	8361

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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	1166	1166	1166	1166	1166
2.5	1164	1164	1165	1167	1167
5.0	1158	1159	1164	1169	1171
7.5	1147	1151	1160	1171	1177
10.0	1133	1138	1158	1179	1186
12.5	1116	1122	1156	1185	1193
15.0	1093	1103	1150	1187	1197
17.5	1069	1082	1142	1187	1199
20.0	1039	1058	1132	1182	1195
22.5	1007	1030	1115	1171	1186
25.0	971	1002	1096	1156	1170
27.5	935	972	1074	1135	1149
30.0	896	940	1046	1107	1118
32.5	856	904	1017	1075	1084
35.0	814	866	984	1036	1042
37.5	773	828	945	993	996
40.0	729	788	903	947	945
42.5	687	746	860	895	891
45.0	644	703	814	842	836
47.5	602	660	764	787	781
50.0	558	616	713	730	720
52.5	515	570	661	674	664
55.0	475	525	608	616	608
57.5	433	480	555	560	547
60.0	393	434	502	506	493
62.5	355	390	451	450	440
65.0	314	348	398	397	387
67.5	278	305	348	345	335
70.0	241	264	300	295	286
72.5	205	224	253	248	240
75.0	171	185	208	203	197
77.5	139	149	165	160	155
80.0	109	114	126	120	116
82.5	80	82	88	84	81
85.0	50	52	53	50	48
87.5	23	23	21	20	18
90.0	0	0	0	0	0
92.5	18	31	31	30	30
95.0	47	83	83	69	68
97.5	79	136	167	120	113
100.0	112	177	332	193	170
102.5	148	216	459	341	271
105.0	183	258	532	556	458
107.5	218	299	577	750	699
110.0	253	337	617	864	873
112.5	288	374	664	939	977
115.0	324	409	720	993	1048
117.5	360	444	781	1044	1103
120.0	396	481	831	1098	1158
122.5	429	512	867	1174	1216
125.0	460	542	887	1257	1299
127.5	489	570	899	1313	1391
130.0	513	594	906	1336	1457
132.5	537	616	908	1327	1478

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-WSO-DSO-ABL-8H-ITL89456-ITL94139.900.IES****CANDELA TABULATION - (Cont.)**

<b>135.0</b>	558	634	907	1299	1457
<b>137.5</b>	577	651	904	1261	1413
<b>140.0</b>	596	666	899	1219	1357
<b>142.5</b>	614	680	892	1172	1297
<b>145.0</b>	633	693	885	1127	1236
<b>147.5</b>	649	703	877	1081	1174
<b>150.0</b>	665	714	867	1040	1116
<b>152.5</b>	680	722	855	1001	1062
<b>155.0</b>	694	728	843	963	1012
<b>157.5</b>	707	736	832	928	967
<b>160.0</b>	718	741	819	894	925
<b>162.5</b>	728	745	806	865	886
<b>165.0</b>	736	749	793	837	853
<b>167.5</b>	743	752	783	813	824
<b>170.0</b>	749	755	776	794	801
<b>172.5</b>	752	757	768	778	784
<b>175.0</b>	756	758	763	768	770
<b>177.5</b>	758	758	760	760	761
<b>180.0</b>	759	759	759	759	759

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-WSO-DSO-ABL-8H-ITL89456-ITL94139.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	434.77	N.A.	6.00
0-30	932.63	N.A.	12.80
0-40	1528.2	N.A.	21.00
0-60	2637.24	N.A.	36.20
0-80	3215.04	N.A.	44.10
0-90	3273.48	N.A.	44.90
10-90	3162.56	N.A.	43.40
20-40	1093.43	N.A.	15.00
20-50	1690.51	N.A.	23.20
40-70	1479.46	N.A.	20.30
60-80	577.80	N.A.	7.90
70-80	207.38	N.A.	2.80
80-90	58.43	N.A.	0.80
90-110	525.79	N.A.	7.20
90-120	1219.49	N.A.	16.70
90-130	2012.46	N.A.	27.60
90-150	3325.54	N.A.	45.60
90-180	4017.8	N.A.	55.10
110-180	3492.02	N.A.	47.90
0-180	7291.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	110.92
10-20	323.86
20-30	497.85
30-40	595.58
40-50	597.08
50-60	511.96
60-70	370.42
70-80	207.38
80-90	58.43
90-100	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

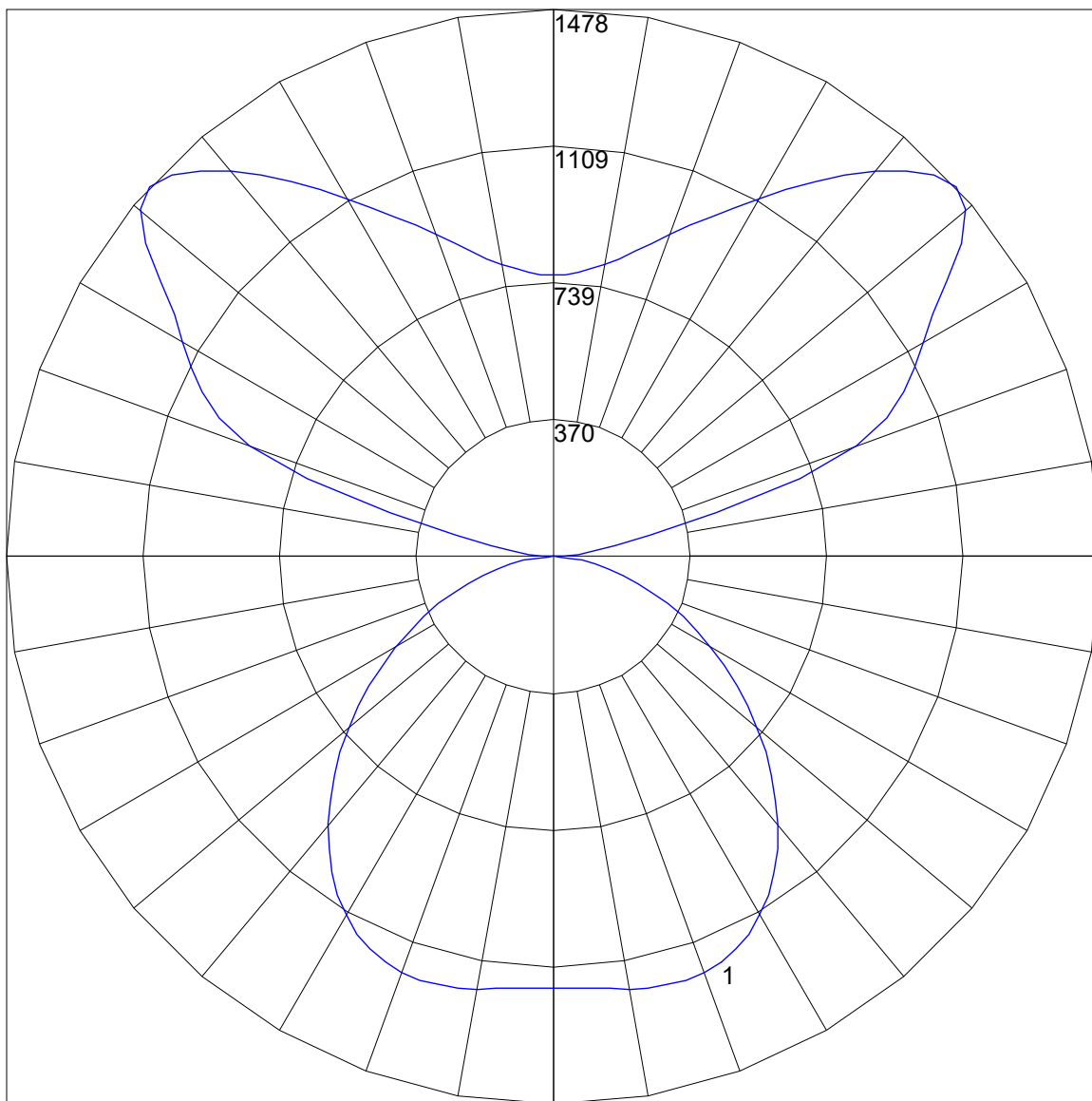
Effective Floor Cavity Reflectance 0.20

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	65	65	65	51	51	51	45
1	97	92	88	85	88	85	81	78	71	68	66	57	56	54	45	44	43	38
2	88	81	75	69	80	74	69	64	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	54	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	45	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	61	51	44	39	43	38	34	36	32	28	28	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	20	17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	33	28	49	38	31	26	32	27	23	27	22	19	22	18	16	14
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	20	17	15	12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11

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## POLAR GRAPH



Maximum Candela = 1478 Located At Horizontal Angle = 90, Vertical Angle = 132.5

# 1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)