

# 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-F-DL-ABL-8H-ITL90630 ITL85134.900.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90630 ITL85134.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/09/18

[ISSUEDATE]06/24/2021

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-2-ID-4ft-V-V-8TW-OPEN-DL-ABL-8H

[OTHER]ies file is based on 3500K; see luminaire tech sheet at [www.finelite.com](http://www.finelite.com) for lumen adjustment factors for other CCT's & C

[\_INPUT\_ELECTRICAL]120.0 VOLTS, 81.2 WATTS

[\_INPUT\_ELECTRICAL]277.0 VOLTS, 82.8 WATTS

[\_ABSOLUTE]LUMENS]7386

[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL90630 and ITL85134. 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)

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7386
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	91
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 w/Sides
Luminous Length (0-180)	3.99 ft
Luminous Width (90-270)	0.17 ft
Luminous Height	0.08 ft

### LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	12715	11046	10651
55	11800	10050	9729
65	10677	8956	8776
75	8927	7725	7776
85	6240	6606	6922

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-F-DL-ABL-8H-ITL90630 ITL85134.900.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
<b>0.0</b>	969	969	969	969	969
<b>2.5</b>	969	968	969	970	970
<b>5.0</b>	964	965	967	970	971
<b>7.5</b>	957	959	965	970	971
<b>10.0</b>	948	950	961	968	969
<b>12.5</b>	936	939	954	962	965
<b>15.0</b>	921	925	944	955	957
<b>17.5</b>	902	909	931	944	947
<b>20.0</b>	882	891	916	930	932
<b>22.5</b>	860	870	899	914	917
<b>25.0</b>	833	848	880	895	900
<b>27.5</b>	808	824	859	876	880
<b>30.0</b>	780	799	836	855	859
<b>32.5</b>	751	773	813	832	838
<b>35.0</b>	718	745	788	808	814
<b>37.5</b>	687	717	761	784	791
<b>40.0</b>	655	687	735	759	766
<b>42.5</b>	621	657	706	732	740
<b>45.0</b>	586	627	677	705	714
<b>47.5</b>	551	595	648	677	686
<b>50.0</b>	517	562	618	649	659
<b>52.5</b>	480	530	587	621	632
<b>55.0</b>	445	497	556	591	603
<b>57.5</b>	410	464	525	561	573
<b>60.0</b>	374	429	493	531	544
<b>62.5</b>	337	395	461	501	514
<b>65.0</b>	301	362	427	468	483
<b>67.5</b>	266	328	395	438	454
<b>70.0</b>	230	293	362	407	421
<b>72.5</b>	194	259	330	375	391
<b>75.0</b>	159	226	298	344	361
<b>77.5</b>	126	195	266	314	332
<b>80.0</b>	96	164	238	286	302
<b>82.5</b>	67	136	211	259	276
<b>85.0</b>	43	112	187	235	252
<b>87.5</b>	25	92	166	214	230
<b>90.0</b>	11	78	150	198	213
<b>92.5</b>	42	108	179	223	240
<b>95.0</b>	82	146	214	257	271
<b>97.5</b>	124	184	249	291	305
<b>100.0</b>	165	221	285	325	339
<b>102.5</b>	209	262	324	361	375
<b>105.0</b>	254	304	363	398	412
<b>107.5</b>	300	348	404	437	451
<b>110.0</b>	348	393	447	477	489
<b>112.5</b>	395	440	491	519	530
<b>115.0</b>	446	486	538	563	573
<b>117.5</b>	498	535	585	607	615
<b>120.0</b>	550	583	633	653	660
<b>122.5</b>	602	632	680	701	707
<b>125.0</b>	656	682	727	748	757
<b>127.5</b>	709	733	776	795	805
<b>130.0</b>	763	781	826	843	852
<b>132.5</b>	818	832	875	891	897

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<b>135.0</b>	871	882	923	939	945
<b>137.5</b>	924	933	970	986	992
<b>140.0</b>	977	981	1015	1032	1038
<b>142.5</b>	1028	1029	1059	1078	1082
<b>145.0</b>	1076	1076	1104	1121	1123
<b>147.5</b>	1124	1120	1147	1160	1163
<b>150.0</b>	1169	1163	1188	1201	1201
<b>152.5</b>	1210	1203	1226	1238	1238
<b>155.0</b>	1250	1242	1263	1273	1273
<b>157.5</b>	1287	1277	1297	1303	1305
<b>160.0</b>	1319	1310	1327	1332	1334
<b>162.5</b>	1349	1340	1355	1357	1360
<b>165.0</b>	1375	1368	1378	1380	1383
<b>167.5</b>	1397	1392	1398	1400	1402
<b>170.0</b>	1415	1413	1414	1416	1417
<b>172.5</b>	1430	1429	1428	1430	1430
<b>175.0</b>	1439	1439	1439	1439	1439
<b>177.5</b>	1446	1446	1446	1445	1446
<b>180.0</b>	1448	1448	1448	1448	1448

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-F-DL-ABL-8H-ITL90630 ITL85134.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	357.46	N.A.	4.80
0-30	759.62	N.A.	10.30
0-40	1246.01	N.A.	16.90
0-60	2244.11	N.A.	30.40
0-80	2951.63	N.A.	40.00
0-90	3140.47	N.A.	42.50
10-90	3048.37	N.A.	41.30
20-40	888.55	N.A.	12.00
20-50	1401.69	N.A.	19.00
40-70	1406.86	N.A.	19.00
60-80	707.52	N.A.	9.60
70-80	298.75	N.A.	4.00
80-90	188.84	N.A.	2.60
90-110	587.94	N.A.	8.00
90-120	1107.72	N.A.	15.00
90-130	1748.5	N.A.	23.70
90-150	3141.2	N.A.	42.50
90-180	4246.02	N.A.	57.50
110-180	3658.09	N.A.	49.50
0-180	7386.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	92.10
10-20	265.37
20-30	402.16
30-40	486.39
40-50	513.14
50-60	484.96
60-70	408.77
70-80	298.75
80-90	188.84
90-100	217.59
100-110	370.35
110-120	519.78
120-130	640.78
130-140	704.67
140-150	688.02
150-160	580.15
160-170	388.07
170-180	136.61

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

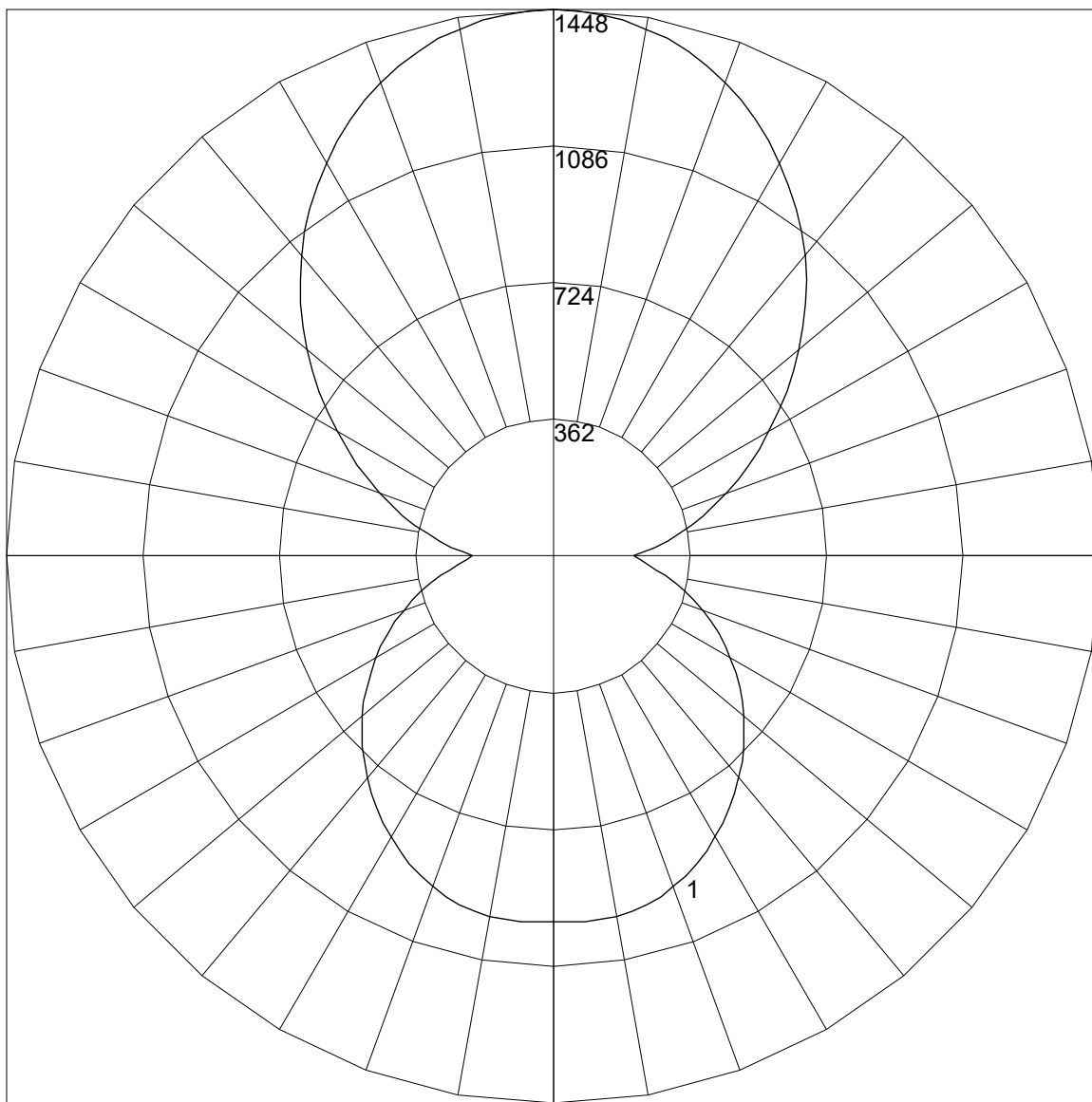
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	79	79	79	64	64	64	49	49	49	43
1	95	90	86	82	87	83	79	76	68	65	63	54	53	51	42	41	40	34
2	86	78	72	66	78	72	66	61	59	55	51	47	44	42	36	34	33	27
3	78	68	61	55	71	63	56	51	52	47	43	41	38	35	32	29	27	23
4	71	60	52	46	65	55	48	43	46	40	36	37	33	29	28	25	23	19
5	65	54	45	39	59	49	42	36	41	35	31	33	29	25	25	22	20	17
6	60	48	40	34	55	44	37	31	36	31	27	29	25	22	23	20	17	14
7	56	43	35	29	50	40	32	27	33	27	23	27	22	19	21	18	15	13
8	51	39	31	26	47	36	29	24	30	24	21	24	20	17	19	16	14	11
9	48	36	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10
10	45	33	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9

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POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180

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