

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-OPEN-DL-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]10/12/18

[MANUFAC]FINELITE, INC.

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

[OTHER]ies file is based on 3500K; see luminaire tech sheet at

[more]www.finelite.com for lumen adjustment factors for other CCT's & CRI's

[_INPUT_ELECTRICAL]120.0 VOLTS, 81.2 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 82.8 WATTS

[_ABSOLUTE]LUMENS]7386

[OTHER]see 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

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-OPEN-DL-ITL90630 ITL85134.900.IES****CANDELA TABULATION - (Cont.)**

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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-V-8TW-OPEN-DL-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

IES INDOOR REPORT

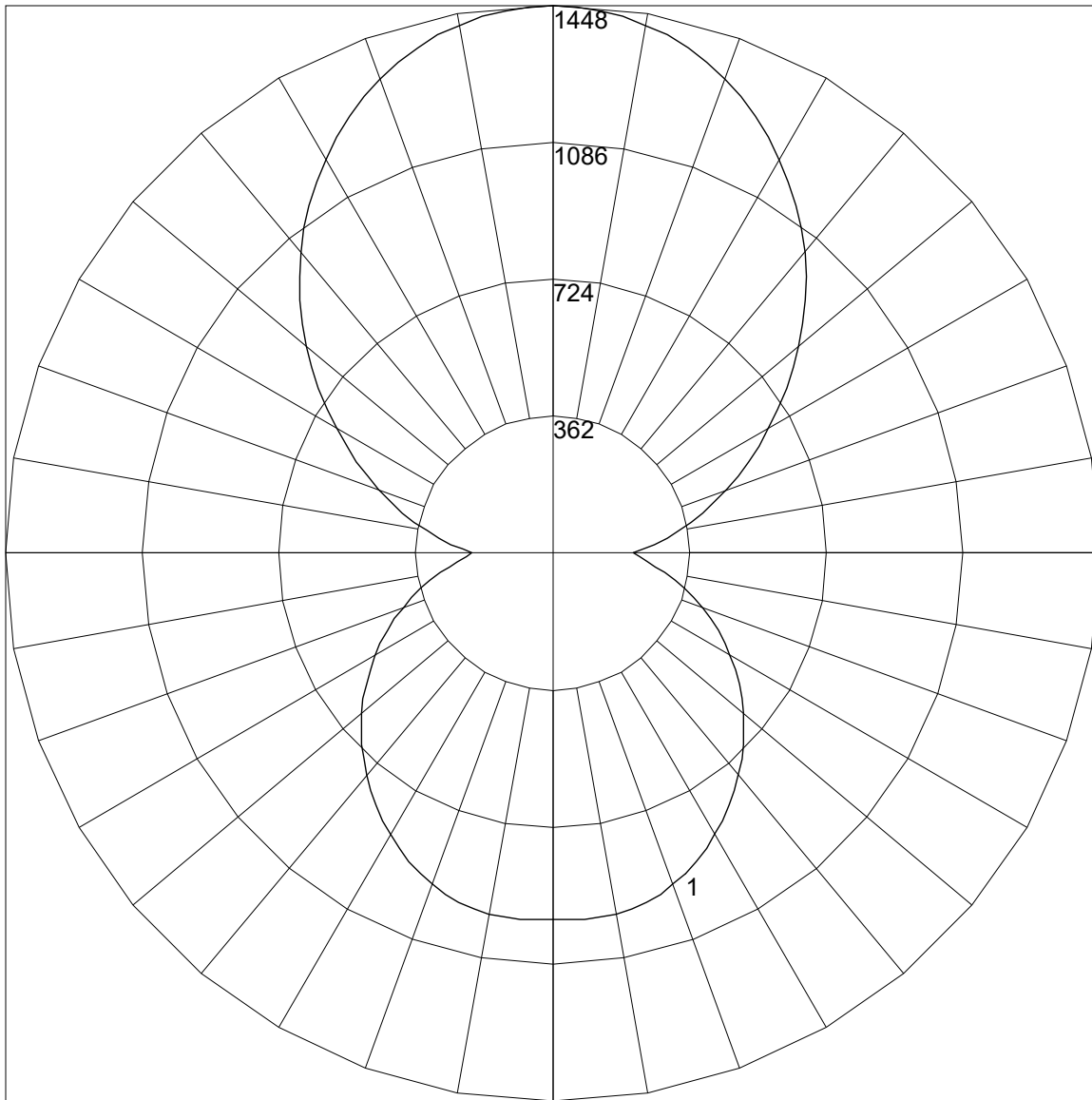
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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

POLAR GRAPH



Maximum Candela = 1448 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)