

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-X-R-D-4FT-V-8TW-F-ITL93256.900.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL93256.900 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/23/20

[ISSUEDATE]05/14/20

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-X-R-D-4ft-V-8TW-F

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 36.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 36.6 WATTS

[_ABSOLUTE]LUMENS]4127

[OTHER]see www.finelite.com for source file ITL93256. 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	4127
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	113
Total Luminaire Watts	36.5
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.28
Spacing Criterion (90-270)	1.26
Spacing Criterion (Diagonal)	1.40
Basic Luminous Shape	Rectangular
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.20 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	18269	18250	18135
55	17667	17691	17549
65	16714	16810	16778
75	15325	15640	15745
85	13871	14183	14183

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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	1413	1413	1413	1413	1413
2.5	1412	1412	1412	1412	1412
5.0	1409	1407	1408	1408	1407
7.5	1400	1399	1400	1399	1400
10.0	1391	1387	1389	1390	1389
12.5	1378	1372	1376	1377	1374
15.0	1363	1354	1360	1361	1358
17.5	1344	1331	1341	1341	1338
20.0	1321	1308	1319	1318	1314
22.5	1294	1282	1292	1293	1289
25.0	1267	1253	1264	1264	1261
27.5	1236	1221	1234	1233	1230
30.0	1202	1189	1201	1198	1196
32.5	1164	1154	1164	1162	1159
35.0	1127	1116	1126	1123	1119
37.5	1087	1076	1086	1082	1079
40.0	1042	1033	1043	1038	1035
42.5	997	990	999	993	989
45.0	951	945	950	946	944
47.5	903	896	903	897	896
50.0	854	847	853	849	845
52.5	799	796	801	796	794
55.0	746	743	747	743	741
57.5	692	689	694	689	689
60.0	636	633	636	634	632
62.5	580	578	581	577	579
65.0	520	521	523	522	522
67.5	464	464	468	465	468
70.0	406	407	410	410	410
72.5	350	351	355	355	354
75.0	292	295	298	299	300
77.5	238	240	245	246	248
80.0	187	189	192	194	194
82.5	137	137	140	142	142
85.0	89	88	91	91	91
87.5	39	39	43	42	43
90.0	0	0	0	0	0

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-X-R-D-4FT-V-8TW-F-ITL93256.900.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	517.15	N.A.	12.50
0-30	1098.44	N.A.	26.60
0-40	1800.33	N.A.	43.60
0-60	3196.1	N.A.	77.40
0-80	4027.68	N.A.	97.60
0-90	4127.41	N.A.	100.00
10-90	3993.66	N.A.	96.80
20-40	1283.18	N.A.	31.10
20-50	2013.74	N.A.	48.80
40-70	1912.46	N.A.	46.30
60-80	831.58	N.A.	20.10
70-80	314.89	N.A.	7.60
80-90	99.73	N.A.	2.40
90-110	0.00	N.A.	0.00
90-120	0.00	N.A.	0.00
90-130	0.00	N.A.	0.00
90-150	0.00	N.A.	0.00
90-180	0.00	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	4127.41	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	133.76
10-20	383.39
20-30	581.29
30-40	701.89
40-50	730.56
50-60	665.21
60-70	516.69
70-80	314.89
80-90	99.73
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

IES INDOOR REPORT

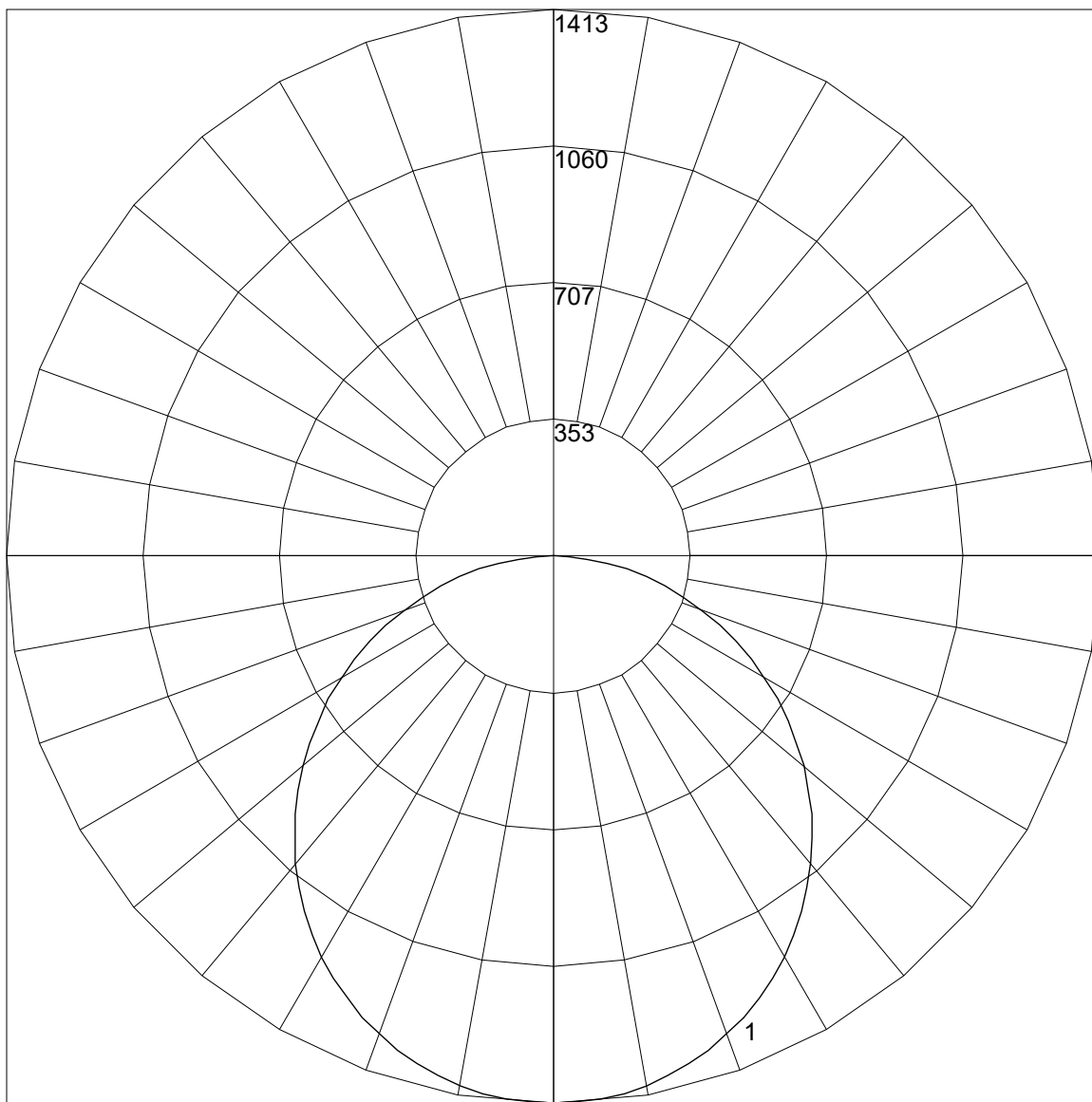
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	30	26	37	30	25	36	30	25	24

POLAR GRAPH



Maximum Candela = 1413 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)