

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-4-I-4FT-V-8TW-ITL85127.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85127.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/07/15
[ISSUEDATE]02/09/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-I-4ft-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, 40.5 WATTS, 0.308 AMPS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.4 WATTS, 0.144 AMPS
[OTHER]see www.finelite.com for source file ITL85127. 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
[_ABSOLUTELUMENS]4114

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4114
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	40.5
Ballast Factor	1.00
CIE Type	Indirect
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	0	0	0
55	0	0	0
65	0	0	0
75	0	0	0
85	0	0	0

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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>
90.0	0	0	0	0	0
92.5	35	36	37	37	38
95.0	76	77	79	80	80
97.5	120	120	123	125	125
100.0	165	166	169	172	172
102.5	213	212	217	220	220
105.0	264	263	267	270	269
107.5	317	314	320	322	321
110.0	373	368	372	375	374
112.5	429	425	427	432	429
115.0	487	481	482	489	484
117.5	544	537	539	544	540
120.0	600	595	597	595	596
122.5	655	652	655	652	653
125.0	714	715	714	708	710
127.5	772	775	775	766	767
130.0	830	834	833	823	824
132.5	886	890	890	881	880
135.0	943	947	947	940	937
137.5	998	999	1002	996	991
140.0	1055	1052	1058	1052	1046
142.5	1108	1104	1112	1104	1099
145.0	1161	1151	1166	1155	1151
147.5	1210	1201	1216	1204	1201
150.0	1257	1248	1259	1252	1248
152.5	1302	1291	1301	1297	1290
155.0	1343	1332	1341	1338	1331
157.5	1381	1370	1379	1376	1370
160.0	1415	1404	1413	1409	1405
162.5	1447	1437	1446	1442	1439
165.0	1475	1467	1473	1471	1468
167.5	1498	1491	1495	1496	1494
170.0	1517	1513	1515	1515	1514
172.5	1531	1530	1531	1531	1531
175.0	1542	1542	1543	1543	1542
177.5	1550	1549	1549	1549	1550
180.0	1552	1552	1552	1552	1552

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	0.00	N.A.	0.00
0-30	0.00	N.A.	0.00
0-40	0.00	N.A.	0.00
0-60	0.00	N.A.	0.00
0-80	0.00	N.A.	0.00
0-90	0.00	N.A.	0.00
10-90	0.00	N.A.	0.00
20-40	0.00	N.A.	0.00
20-50	0.00	N.A.	0.00
40-70	0.00	N.A.	0.00
60-80	0.00	N.A.	0.00
70-80	0.00	N.A.	0.00
80-90	0.00	N.A.	0.00
90-110	370.46	N.A.	9.00
90-120	849.79	N.A.	20.70
90-130	1486.93	N.A.	36.10
90-150	2937.71	N.A.	71.40
90-180	4114.17	N.A.	100.00
110-180	3743.72	N.A.	91.00
0-180	4114.17	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	0.00
10-20	0.00
20-30	0.00
30-40	0.00
40-50	0.00
50-60	0.00
60-70	0.00
70-80	0.00
80-90	0.00
90-100	87.66
100-110	282.80
110-120	479.34
120-130	637.13
130-140	727.27
140-150	723.51
150-160	615.72
160-170	414.39
170-180	146.35

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

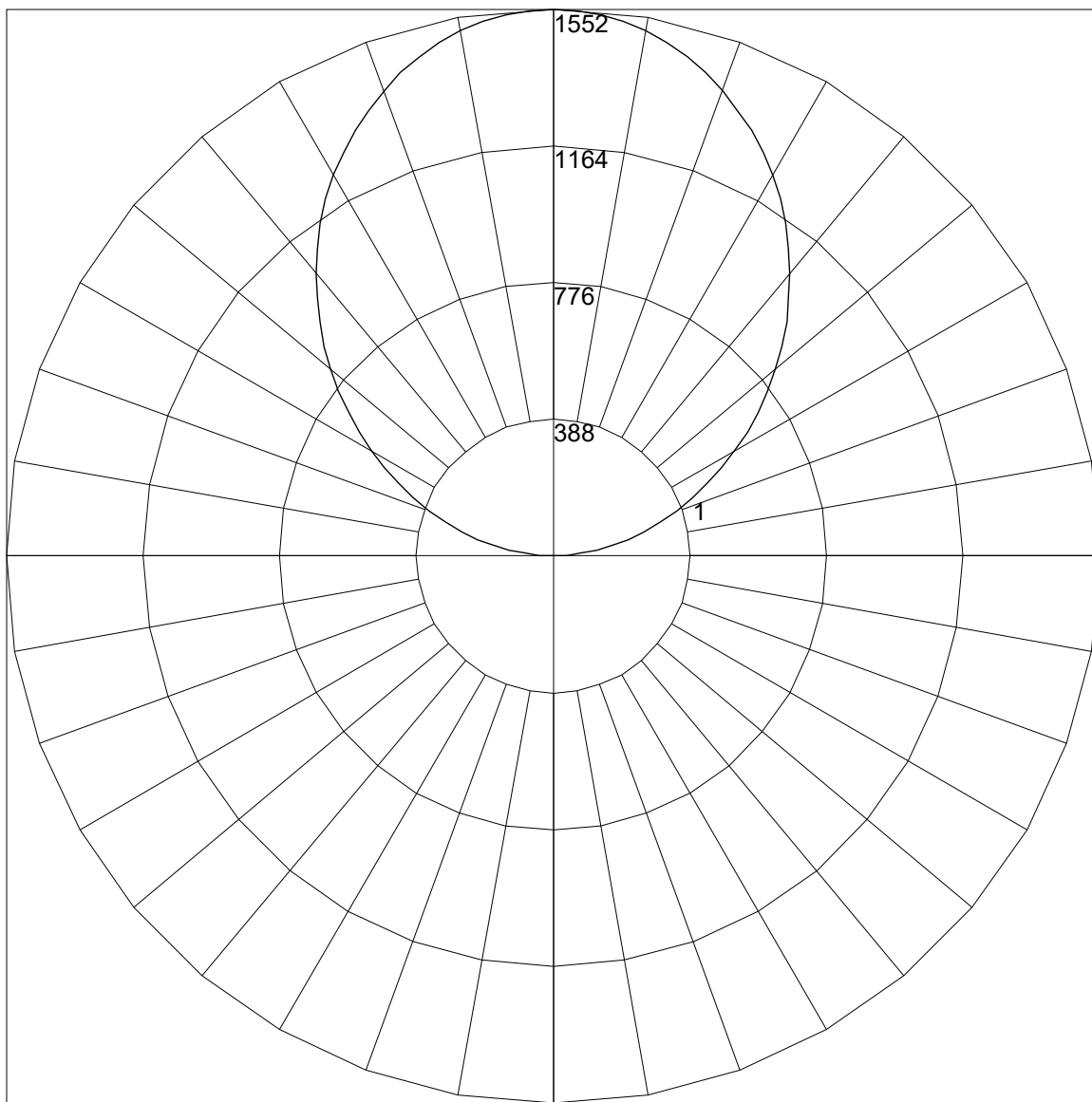
Effective Floor Cavity Reflectance 0.20

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	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	28	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0

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POLAR GRAPH



Maximum Candela = 1552 Located At Horizontal Angle = 0, Vertical Angle = 180

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