

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-R-4FT-V-8-TW-ITL85135.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85135.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/13/15
[ISSUEDATE]04/14/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-2-R-4ft-V-8-TW
[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, 40.6 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 41.6 WATTS
[OTHER]see www.finelite.com for source file ITL85135. 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]3287

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3287
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	81
Total Luminaire Watts	40.6
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	1.20
Spacing Criterion (90-270)	1.14
Spacing Criterion (Diagonal)	1.28
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	16597	15931	15266
55	15220	14531	13817
65	13866	13220	12573
75	12553	11908	11497
85	11323	10626	10452

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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	1335	1335	1335	1335	1335
2.5	1333	1333	1333	1333	1333
5.0	1327	1326	1325	1325	1324
7.5	1317	1316	1314	1313	1312
10.0	1304	1299	1298	1297	1295
12.5	1286	1279	1280	1275	1270
15.0	1264	1254	1255	1248	1242
17.5	1239	1226	1225	1217	1208
20.0	1208	1194	1191	1181	1171
22.5	1174	1160	1156	1142	1133
25.0	1138	1122	1116	1100	1090
27.5	1099	1081	1074	1056	1045
30.0	1057	1041	1029	1011	999
32.5	1013	997	985	964	954
35.0	967	951	937	915	904
37.5	921	905	890	866	857
40.0	873	858	841	817	808
42.5	825	810	792	768	760
45.0	773	760	742	719	711
47.5	723	712	694	672	661
50.0	675	662	645	624	614
52.5	625	613	597	576	568
55.0	575	565	549	529	522
57.5	527	517	502	484	478
60.0	479	470	456	440	434
62.5	432	425	412	398	391
65.0	386	379	368	354	350
67.5	341	335	325	315	310
70.0	298	292	282	275	271
72.5	256	250	242	236	233
75.0	214	209	203	197	196
77.5	175	171	166	161	160
80.0	136	134	130	126	127
82.5	101	99	96	94	94
85.0	65	63	61	60	60
87.5	30	29	28	28	28
90.0	0	0	0	0	0

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	478.21	N.A.	14.50
0-30	990.33	N.A.	30.10
0-40	1575.03	N.A.	47.90
0-60	2637.71	N.A.	80.20
0-80	3218.52	N.A.	97.90
0-90	3287.07	N.A.	100.00
10-90	3161.39	N.A.	96.20
20-40	1096.81	N.A.	33.40
20-50	1668.88	N.A.	50.80
40-70	1427.25	N.A.	43.40
60-80	580.81	N.A.	17.70
70-80	216.25	N.A.	6.60
80-90	68.55	N.A.	2.10
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	3287.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	125.68
10-20	352.54
20-30	512.12
30-40	584.69
40-50	572.06
50-60	490.62
60-70	364.57
70-80	216.25
80-90	68.55
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

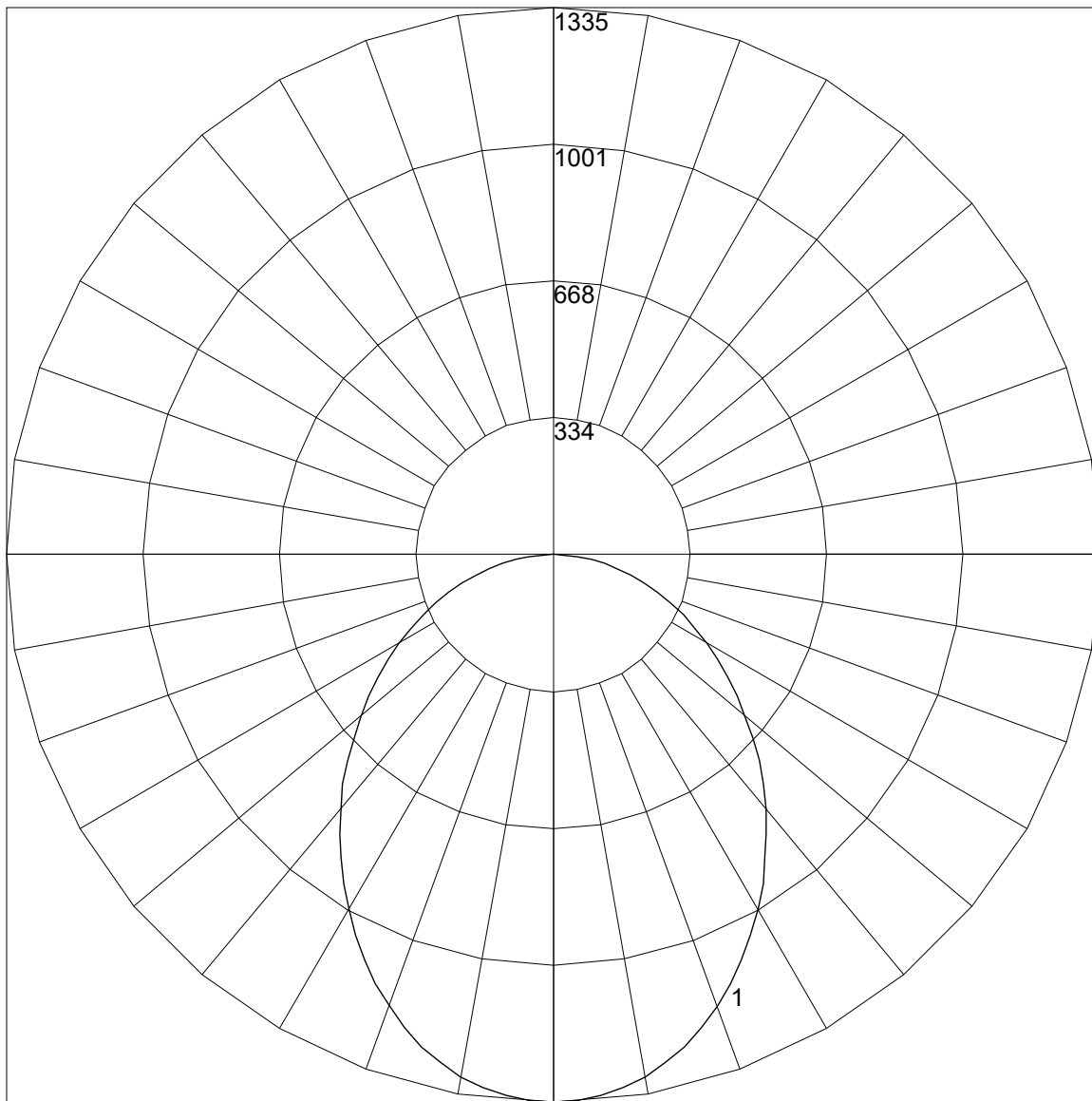
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	79	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	48	42	37	35
8	62	48	40	34	60	48	40	34	46	39	34	45	38	34	44	38	33	32
9	58	44	36	31	56	44	36	31	43	36	31	42	35	30	41	35	30	28
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26

POLAR GRAPH



Maximum Candela = 1335 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)