

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-ID-4FT-V-V-8TW-ITL85125.900.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.900 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE] 08/06/15
[ISSUEDATE]02/09/17
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-V-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, 81.5 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 83.3 WATTS
[ABSOLUTE]LUMENS]7886
[OTHER]see www.finelite.com for source file ITL85125. 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	7886
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	81.5
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
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	10114	9973	9796
55	9391	9246	9057
65	8569	8451	8313
75	7495	7495	7463
85	6209	6496	6687

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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	1443	1443	1443	1443	1443
2.5	1440	1440	1440	1440	1440
5.0	1433	1434	1434	1433	1434
7.5	1423	1424	1423	1421	1423
10.0	1409	1406	1407	1407	1405
12.5	1392	1387	1388	1388	1383
15.0	1368	1360	1365	1363	1356
17.5	1342	1331	1336	1334	1327
20.0	1311	1299	1303	1300	1293
22.5	1277	1264	1267	1263	1256
25.0	1239	1225	1228	1224	1216
27.5	1198	1184	1186	1181	1174
30.0	1154	1140	1141	1136	1128
32.5	1108	1097	1096	1089	1082
35.0	1062	1050	1049	1040	1034
37.5	1012	1000	1001	990	984
40.0	962	952	951	940	934
42.5	914	901	898	889	883
45.0	859	850	847	838	832
47.5	806	797	795	786	780
50.0	753	745	742	733	728
52.5	700	692	691	681	676
55.0	647	640	637	628	624
57.5	593	587	584	576	572
60.0	541	534	532	525	522
62.5	487	481	479	473	471
65.0	435	430	429	424	422
67.5	382	379	378	374	372
70.0	331	329	329	326	324
72.5	281	282	280	281	278
75.0	233	234	233	234	232
77.5	187	188	190	190	190
80.0	144	145	147	148	148
82.5	105	106	107	108	108
85.0	65	67	68	69	70
87.5	28	30	31	34	34
90.0	0	0	0	0	0
92.5	30	32	34	38	39
95.0	71	72	76	81	82
97.5	115	116	121	126	125
100.0	160	162	167	172	171
102.5	206	210	215	220	220
105.0	257	261	266	270	269
107.5	311	314	317	321	321
110.0	369	369	372	376	375
112.5	427	425	429	435	430
115.0	485	483	485	490	486
117.5	543	544	545	546	543
120.0	602	604	603	602	600
122.5	662	664	664	661	658
125.0	723	726	726	720	717
127.5	784	786	788	779	773
130.0	843	844	846	840	835
132.5	903	902	903	899	893

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CANDELA TABULATION - (Cont.)

135.0	963	958	961	958	951
137.5	1021	1013	1018	1014	1007
140.0	1079	1070	1076	1072	1064
142.5	1132	1125	1132	1126	1119
145.0	1189	1177	1185	1179	1172
147.5	1240	1228	1236	1230	1223
150.0	1290	1277	1285	1279	1273
152.5	1334	1324	1332	1325	1320
155.0	1377	1367	1374	1368	1363
157.5	1419	1409	1415	1409	1405
160.0	1455	1447	1453	1447	1444
162.5	1489	1480	1487	1481	1479
165.0	1517	1510	1514	1511	1510
167.5	1542	1536	1539	1537	1537
170.0	1563	1559	1561	1559	1559
172.5	1578	1578	1577	1577	1577
175.0	1590	1590	1590	1589	1590
177.5	1597	1598	1598	1598	1598
180.0	1600	1600	1600	1600	1600

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	519.83	N.A.	6.60
0-30	1084.16	N.A.	13.70
0-40	1738.57	N.A.	22.00
0-60	2958.57	N.A.	37.50
0-80	3630.15	N.A.	46.00
0-90	3706.19	N.A.	47.00
10-90	3570.19	N.A.	45.30
20-40	1218.73	N.A.	15.50
20-50	1870.64	N.A.	23.70
40-70	1643.59	N.A.	20.80
60-80	671.58	N.A.	8.50
70-80	247.99	N.A.	3.10
80-90	76.04	N.A.	1.00
90-110	366.84	N.A.	4.70
90-120	848.57	N.A.	10.80
90-130	1494.82	N.A.	19.00
90-150	2972.13	N.A.	37.70
90-180	4180.24	N.A.	53.00
110-180	3813.4	N.A.	48.40
0-180	7886.43	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	136.00
10-20	383.83
20-30	564.33
30-40	654.40
40-50	651.91
50-60	568.09
60-70	423.59
70-80	247.99
80-90	76.04
90-100	85.72
100-110	281.12
110-120	481.73
120-130	646.25
130-140	739.31
140-150	738.00
150-160	631.02
160-170	426.27
170-180	150.82

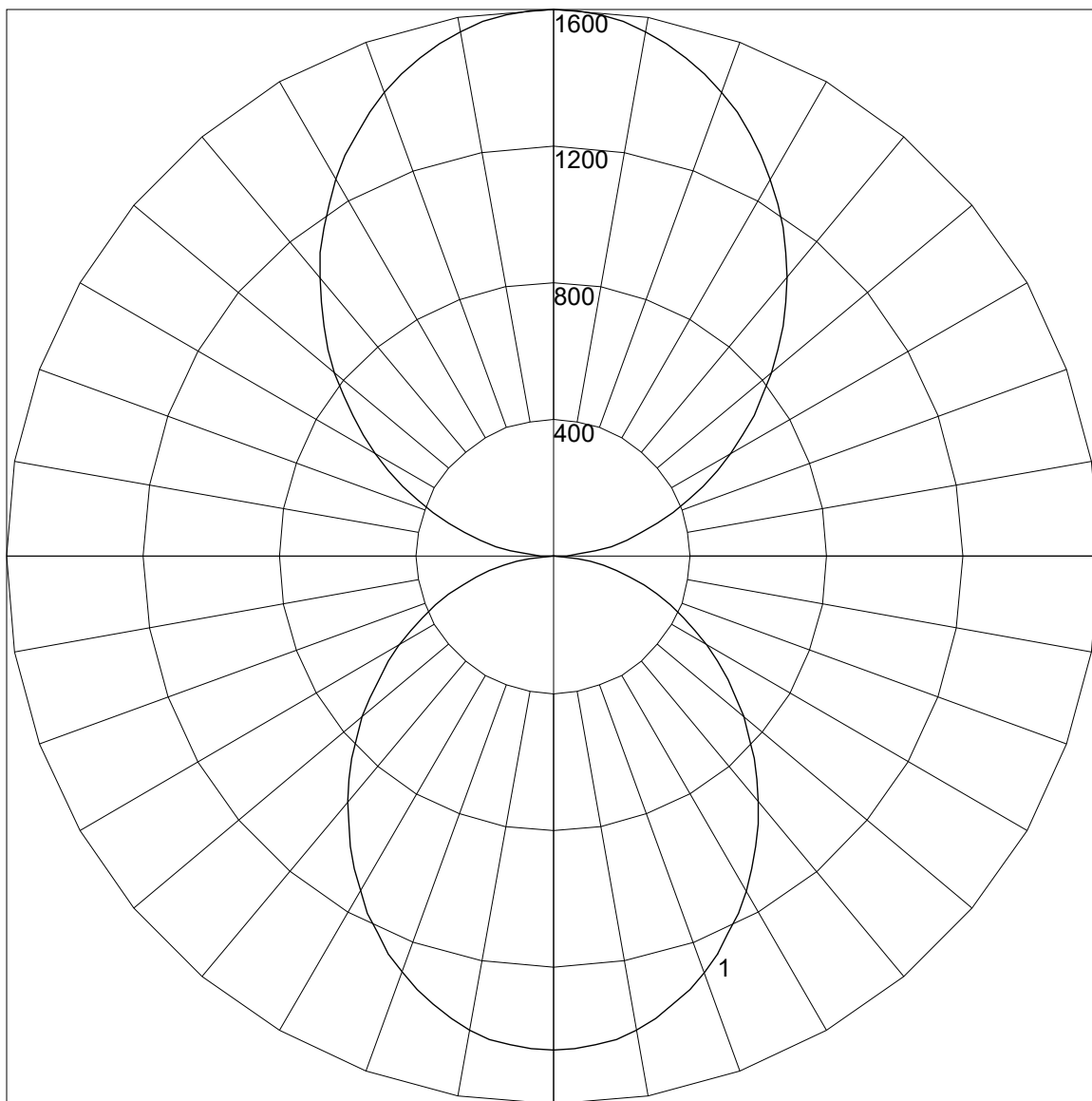
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	98	98	98	98	82	82	82	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	59	57	56	47	46	45	39
2	88	81	75	70	81	75	69	65	63	59	55	52	49	46	41	39	38	33
3	81	71	64	58	74	66	59	54	55	50	47	46	42	39	37	34	32	28
4	74	63	55	49	67	58	51	46	49	44	40	41	37	34	33	30	28	24
5	68	56	48	42	62	52	45	39	44	38	34	36	32	29	30	27	24	21
6	62	50	42	36	57	47	39	34	40	34	30	33	29	25	27	24	21	18
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	24	21	19	16
8	53	41	33	28	49	38	31	27	33	27	23	27	23	20	22	19	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

POLAR GRAPH



Maximum Candela = 1600 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)