

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-B-8TW-ITL85125.905.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.905 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-B-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, 61.0 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 63.3 WATTS
[ABSOLUTE]LUMENS]6088
[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	6088
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	100
Total Luminaire Watts	61
Ballast Factor	1.00
CIE Type	Semi-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	5205	5132	5041
55	4833	4758	4661
65	4410	4349	4278
75	3857	3857	3841
85	3195	3343	3441

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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	742.597	742.596	742.596	742.596	742.596
2.5	741.053	741.053	741.053	741.053	741.053
5.0	737.450	737.965	737.965	737.450	737.965
7.5	732.304	732.819	732.304	731.275	732.304
10.0	725.099	723.556	724.070	724.070	723.041
12.5	716.351	713.778	714.292	714.292	711.719
15.0	704.000	699.883	702.456	701.427	697.825
17.5	690.620	684.959	687.532	686.503	682.901
20.0	674.667	668.491	670.550	669.006	665.404
22.5	657.170	650.480	652.023	649.965	646.362
25.0	637.614	630.409	631.953	629.895	625.778
27.5	616.515	609.310	610.339	607.766	604.164
30.0	593.871	586.667	587.181	584.608	580.491
32.5	570.199	564.538	564.023	560.421	556.819
35.0	546.526	540.351	539.836	535.205	532.117
37.5	520.795	514.620	515.135	509.474	506.386
40.0	495.064	489.918	489.404	483.743	480.655
42.5	470.363	463.673	462.129	457.497	454.409
45.0	442.058	437.427	435.883	431.252	428.164
47.5	414.784	410.152	409.123	404.491	401.404
50.0	387.509	383.392	381.848	377.216	374.643
52.5	360.234	356.117	355.602	350.456	347.883
55.0	332.959	329.357	327.813	323.181	321.123
57.5	305.170	302.082	300.538	296.421	294.363
60.0	278.409	274.807	273.778	270.175	268.632
62.5	250.620	247.532	246.503	243.415	242.386
65.0	223.860	221.286	220.772	218.199	217.170
67.5	196.585	195.041	194.526	192.468	191.439
70.0	170.339	169.310	169.310	167.766	166.737
72.5	144.608	145.123	144.094	144.608	143.064
75.0	119.906	120.421	119.906	120.421	119.392
77.5	96.234	96.749	97.778	97.778	97.778
80.0	74.105	74.620	75.649	76.164	76.164
82.5	54.035	54.550	55.064	55.579	55.579
85.0	33.450	34.480	34.994	35.509	36.023
87.5	14.409	15.439	15.953	17.497	17.497
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	32.000	34.000	38.000	39.000
95.0	71.000	72.000	76.000	81.000	82.000
97.5	115.000	116.000	121.000	126.000	125.000
100.0	160.000	162.000	167.000	172.000	171.000
102.5	206.000	210.000	215.000	220.000	220.000
105.0	257.000	261.000	266.000	270.000	269.000
107.5	311.000	314.000	317.000	321.000	321.000
110.0	369.000	369.000	372.000	376.000	375.000
112.5	427.000	425.000	429.000	435.000	430.000
115.0	485.000	483.000	485.000	490.000	486.000
117.5	543.000	544.000	545.000	546.000	543.000
120.0	602.000	604.000	603.000	602.000	600.000
122.5	662.000	664.000	664.000	661.000	658.000
125.0	723.000	726.000	726.000	720.000	717.000
127.5	784.000	786.000	788.000	779.000	773.000
130.0	843.000	844.000	846.000	840.000	835.000
132.5	903.000	902.000	903.000	899.000	893.000

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CANDELA TABULATION - (Cont.)

135.0	963.000	958.000	961.000	958.000	951.000
137.5	1021.000	1013.000	1018.000	1014.000	1007.000
140.0	1079.000	1070.000	1076.000	1072.000	1064.000
142.5	1132.000	1125.000	1132.000	1126.000	1119.000
145.0	1189.000	1177.000	1185.000	1179.000	1172.000
147.5	1240.000	1228.000	1236.000	1230.000	1223.000
150.0	1290.000	1277.000	1285.000	1279.000	1273.000
152.5	1334.000	1324.000	1332.000	1325.000	1320.000
155.0	1377.000	1367.000	1374.000	1368.000	1363.000
157.5	1419.000	1409.000	1415.000	1409.000	1405.000
160.0	1455.000	1447.000	1453.000	1447.000	1444.000
162.5	1489.000	1480.000	1487.000	1481.000	1479.000
165.0	1517.000	1510.000	1514.000	1511.000	1510.000
167.5	1542.000	1536.000	1539.000	1537.000	1537.000
170.0	1563.000	1559.000	1561.000	1559.000	1559.000
172.5	1578.000	1578.000	1577.000	1577.000	1577.000
175.0	1590.000	1590.000	1590.000	1589.000	1590.000
177.5	1597.000	1598.000	1598.000	1598.000	1598.000
180.0	1600.000	1600.000	1600.000	1600.000	1600.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	267.52	N.A.	4.40
0-30	557.93	N.A.	9.20
0-40	894.70	N.A.	14.70
0-60	1522.54	N.A.	25.00
0-80	1868.15	N.A.	30.70
0-90	1907.28	N.A.	31.30
10-90	1837.29	N.A.	30.20
20-40	627.19	N.A.	10.30
20-50	962.67	N.A.	15.80
40-70	845.83	N.A.	13.90
60-80	345.61	N.A.	5.70
70-80	127.62	N.A.	2.10
80-90	39.13	N.A.	0.60
90-110	366.84	N.A.	6.00
90-120	848.57	N.A.	13.90
90-130	1494.82	N.A.	24.60
90-150	2972.13	N.A.	48.80
90-180	4180.24	N.A.	68.70
110-180	3813.4	N.A.	62.60
0-180	6087.52	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	69.99
10-20	197.53
20-30	290.42
30-40	336.77
40-50	335.49
50-60	292.35
60-70	217.99
70-80	127.62
80-90	39.13
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

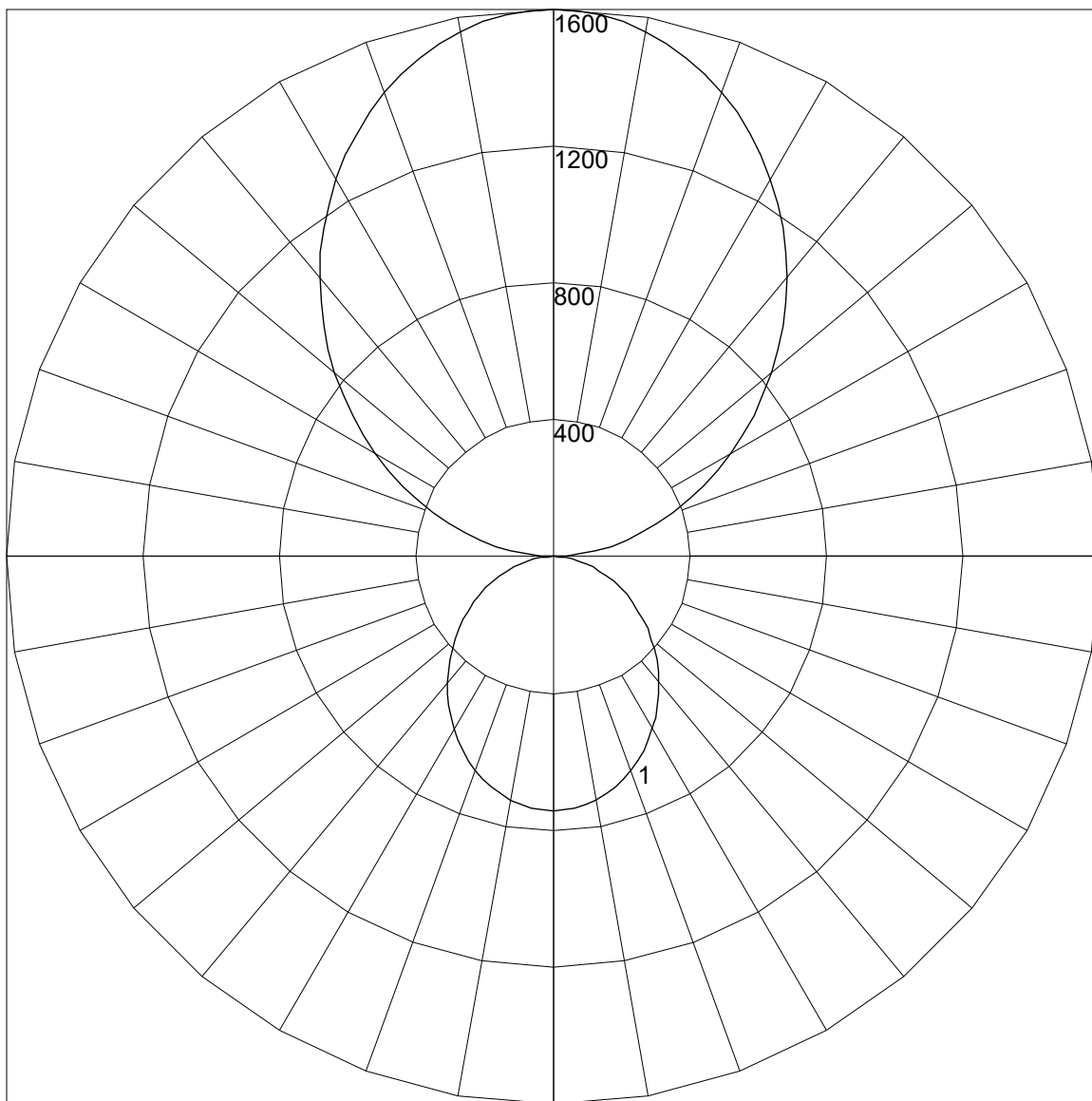
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31
1	94	89	86	82	84	80	77	74	64	62	60	48	47	46	34	34	33	26
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22
3	78	68	61	56	69	62	56	51	49	45	41	38	35	32	27	25	23	19
4	71	60	53	47	63	55	48	43	44	39	35	33	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	21	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	23	21	19	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	24	21	18	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	10
9	48	36	28	24	43	32	26	22	26	21	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	19	16	19	16	13	14	12	10	8

POLAR GRAPH



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