

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-H-S-8-35-ITL85125.007.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.007 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUE DATE]04/21/16
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-H-S-8-35
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 42.9 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 45.2 WATTS
[ABSOLUTE LUMENS]4768
[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	4768
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	42.9
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	4140	4082	4010
55	3844	3785	3708
65	3508	3460	3403
75	3068	3068	3055
85	2542	2659	2737

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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	590.702	590.702	590.702	590.702	590.702
2.5	589.474	589.474	589.474	589.474	589.474
5.0	586.608	587.018	587.018	586.608	587.018
7.5	582.515	582.924	582.515	581.696	582.515
10.0	576.784	575.556	575.965	575.965	575.146
12.5	569.825	567.778	568.187	568.187	566.140
15.0	560.000	556.725	558.772	557.953	555.088
17.5	549.357	544.854	546.901	546.082	543.216
20.0	536.667	531.754	533.392	532.164	529.298
22.5	522.749	517.427	518.655	517.018	514.152
25.0	507.193	501.462	502.690	501.053	497.778
27.5	490.409	484.678	485.497	483.450	480.585
30.0	472.398	466.667	467.076	465.029	461.754
32.5	453.567	449.064	448.655	445.789	442.924
35.0	434.737	429.825	429.415	425.731	423.275
37.5	414.269	409.357	409.766	405.263	402.807
40.0	393.801	389.708	389.298	384.795	382.339
42.5	374.152	368.830	367.602	363.918	361.462
45.0	351.637	347.953	346.725	343.041	340.585
47.5	329.942	326.257	325.439	321.754	319.298
50.0	308.246	304.971	303.743	300.058	298.012
52.5	286.550	283.275	282.865	278.772	276.725
55.0	264.854	261.988	260.760	257.076	255.439
57.5	242.749	240.292	239.064	235.790	234.152
60.0	221.462	218.596	217.778	214.912	213.684
62.5	199.357	196.901	196.082	193.626	192.807
65.0	178.070	176.023	175.614	173.567	172.749
67.5	156.374	155.146	154.737	153.099	152.281
70.0	135.497	134.678	134.678	133.450	132.632
72.5	115.029	115.439	114.620	115.029	113.801
75.0	95.380	95.790	95.380	95.790	94.971
77.5	76.550	76.959	77.778	77.778	77.778
80.0	58.947	59.357	60.175	60.585	60.585
82.5	42.983	43.392	43.801	44.211	44.211
85.0	26.608	27.427	27.836	28.246	28.655
87.5	11.462	12.281	12.690	13.918	13.918
90.0	0.000	0.000	0.000	0.000	0.000
92.5	23.333	24.889	26.444	29.556	30.333
95.0	55.222	56.000	59.111	63.000	63.778
97.5	89.444	90.222	94.111	98.000	97.222
100.0	124.444	126.000	129.889	133.778	133.000
102.5	160.222	163.333	167.222	171.111	171.111
105.0	199.889	203.000	206.889	210.000	209.222
107.5	241.889	244.222	246.556	249.667	249.667
110.0	287.000	287.000	289.333	292.445	291.667
112.5	332.111	330.555	333.667	338.333	334.445
115.0	377.222	375.667	377.222	381.111	378.000
117.5	422.333	423.111	423.889	424.667	422.333
120.0	468.222	469.778	469.000	468.222	466.667
122.5	514.889	516.444	516.444	514.111	511.778
125.0	562.333	564.667	564.667	560.000	557.667
127.5	609.778	611.333	612.889	605.889	601.222
130.0	655.667	656.444	658.000	653.333	649.444
132.5	702.333	701.556	702.333	699.222	694.556

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CANDELA TABULATION - (Cont.)

135.0	749.000	745.111	747.444	745.111	739.667
137.5	794.111	787.889	791.778	788.667	783.222
140.0	839.222	832.222	836.889	833.778	827.556
142.5	880.444	875.000	880.444	875.778	870.333
145.0	924.778	915.444	921.667	917.000	911.556
147.5	964.444	955.111	961.333	956.667	951.222
150.0	1003.333	993.222	999.444	994.778	990.111
152.5	1037.555	1029.778	1036.000	1030.555	1026.667
155.0	1071.000	1063.222	1068.667	1064.000	1060.111
157.5	1103.667	1095.889	1100.555	1095.889	1092.778
160.0	1131.667	1125.445	1130.111	1125.445	1123.111
162.5	1158.111	1151.111	1156.555	1151.889	1150.333
165.0	1179.889	1174.445	1177.555	1175.222	1174.445
167.5	1199.333	1194.667	1197.000	1195.445	1195.445
170.0	1215.667	1212.555	1214.111	1212.555	1212.555
172.5	1227.333	1227.333	1226.555	1226.555	1226.555
175.0	1236.667	1236.667	1236.667	1235.889	1236.667
177.5	1242.111	1242.889	1242.889	1242.889	1242.889
180.0	1244.445	1244.445	1244.445	1244.445	1244.445

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	212.80	N.A.	4.50
0-30	443.81	N.A.	9.30
0-40	711.69	N.A.	14.90
0-60	1211.11	N.A.	25.40
0-80	1486.02	N.A.	31.20
0-90	1517.15	N.A.	31.80
10-90	1461.48	N.A.	30.60
20-40	498.90	N.A.	10.50
20-50	765.76	N.A.	16.10
40-70	672.82	N.A.	14.10
60-80	274.92	N.A.	5.80
70-80	101.52	N.A.	2.10
80-90	31.13	N.A.	0.70
90-110	285.32	N.A.	6.00
90-120	660.00	N.A.	13.80
90-130	1162.64	N.A.	24.40
90-150	2311.66	N.A.	48.50
90-180	3251.3	N.A.	68.20
110-180	2965.98	N.A.	62.20
0-180	4768.45	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	55.67
10-20	157.12
20-30	231.01
30-40	267.88
40-50	266.86
50-60	232.55
60-70	173.40
70-80	101.52
80-90	31.13
90-100	66.67
100-110	218.65
110-120	374.68
120-130	502.64
130-140	575.02
140-150	574.00
150-160	490.79
160-170	331.54
170-180	117.30

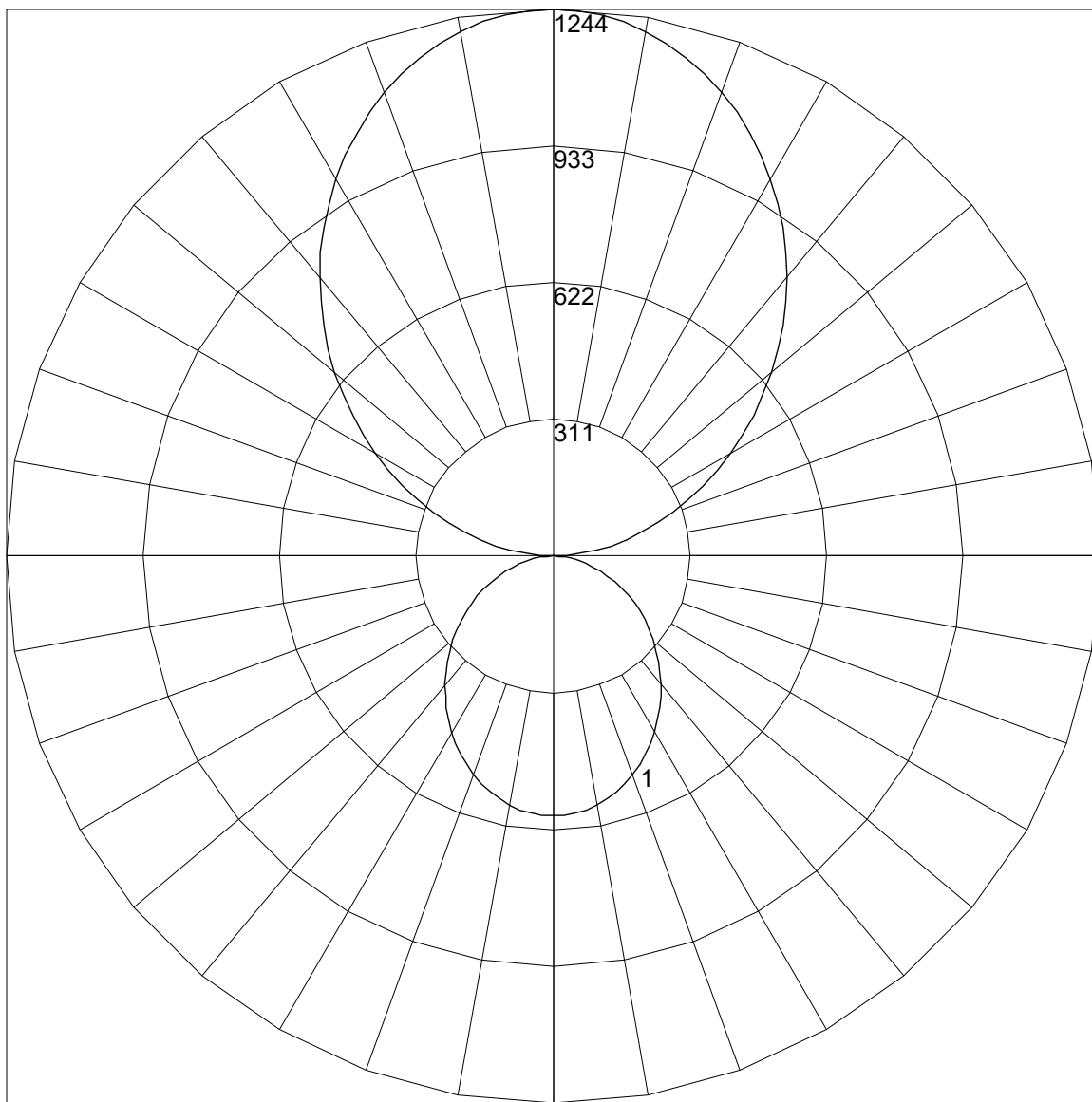
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	93	93	93	73	73	73	56	56	56	39	39	39	32
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	31	29	28	22
3	78	69	61	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	16	14	12	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 1244.445 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)