

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-S-S-835-ITL85125.001.IES

DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002
[TEST]ITL85125.001 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]08/06/15
[ISSUE DATE]02/09/17
[MANUFACTURER]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-S-S-835
[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 29.1 WATTS
[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 32.0 WATTS
[ABSOLUTE LUMENS]3228
[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	3228
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	111
Total Luminaire Watts	29.1
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	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	235.789	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	95.789	95.380	95.789	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	42.982	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	12.281	13.099	13.918	15.556	15.965
95.0	29.064	29.474	31.111	33.158	33.567
97.5	47.076	47.485	49.532	51.579	51.170
100.0	65.497	66.316	68.363	70.409	70.000
102.5	84.327	85.965	88.012	90.058	90.058
105.0	105.205	106.842	108.889	110.526	110.117
107.5	127.310	128.538	129.766	131.404	131.404
110.0	151.053	151.053	152.281	153.918	153.509
112.5	174.795	173.977	175.614	178.070	176.023
115.0	198.538	197.719	198.538	200.585	198.947
117.5	222.281	222.690	223.099	223.509	222.281
120.0	246.433	247.251	246.842	246.433	245.614
122.5	270.994	271.813	271.813	270.585	269.357
125.0	295.965	297.193	297.193	294.737	293.509
127.5	320.936	321.754	322.573	318.889	316.433
130.0	345.088	345.497	346.316	343.860	341.813
132.5	369.649	369.240	369.649	368.012	365.556

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CANDELA TABULATION - (Cont.)

135.0	394.211	392.164	393.392	392.164	389.298
137.5	417.953	414.678	416.725	415.088	412.222
140.0	441.696	438.012	440.468	438.830	435.556
142.5	463.392	460.526	463.392	460.936	458.070
145.0	486.725	481.813	485.088	482.632	479.766
147.5	507.602	502.690	505.965	503.509	500.643
150.0	528.070	522.749	526.023	523.567	521.111
152.5	546.082	541.988	545.263	542.398	540.351
155.0	563.684	559.591	562.456	560.000	557.953
157.5	580.877	576.784	579.240	576.784	575.146
160.0	595.614	592.339	594.795	592.339	591.111
162.5	609.532	605.848	608.713	606.257	605.439
165.0	620.994	618.129	619.766	618.538	618.129
167.5	631.228	628.772	630.000	629.181	629.181
170.0	639.825	638.187	639.006	638.187	638.187
172.5	645.965	645.965	645.556	645.556	645.556
175.0	650.877	650.877	650.877	650.468	650.877
177.5	653.743	654.152	654.152	654.152	654.152
180.0	654.971	654.971	654.971	654.971	654.971

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	212.80	N.A.	6.60
0-30	443.81	N.A.	13.70
0-40	711.69	N.A.	22.00
0-60	1211.11	N.A.	37.50
0-80	1486.02	N.A.	46.00
0-90	1517.15	N.A.	47.00
10-90	1461.48	N.A.	45.30
20-40	498.90	N.A.	15.50
20-50	765.76	N.A.	23.70
40-70	672.82	N.A.	20.80
60-80	274.92	N.A.	8.50
70-80	101.52	N.A.	3.10
80-90	31.13	N.A.	1.00
90-110	150.17	N.A.	4.70
90-120	347.37	N.A.	10.80
90-130	611.92	N.A.	19.00
90-150	1216.66	N.A.	37.70
90-180	1711.21	N.A.	53.00
110-180	1561.04	N.A.	48.40
0-180	3228.36	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	35.09
100-110	115.08
110-120	197.20
120-130	264.55
130-140	302.64
140-150	302.10
150-160	258.31
160-170	174.50
170-180	61.74

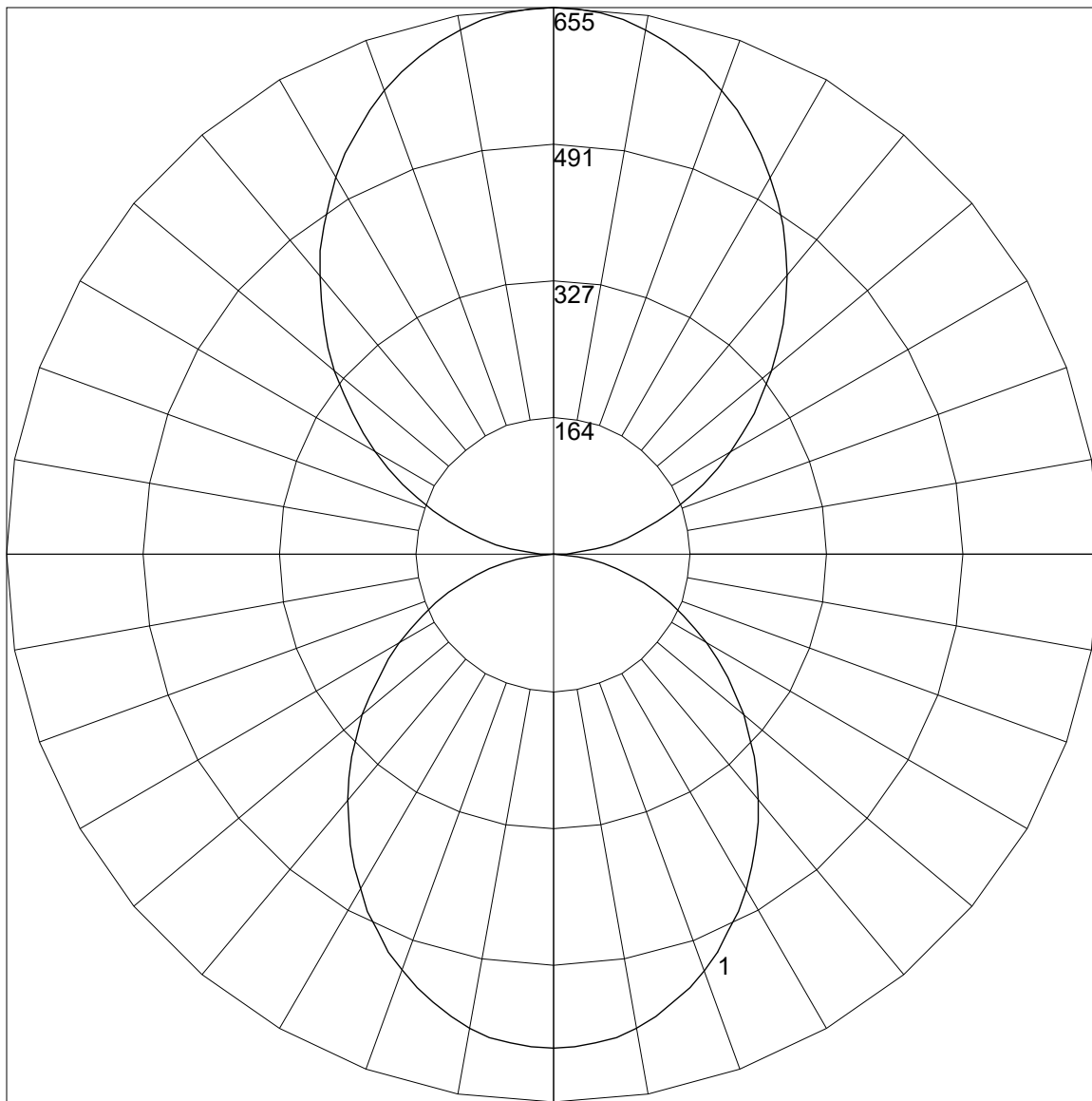
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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 = 654.971 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)