

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 : HO4-ID-RO-4FT-H-H-835-TG-ITL90233.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/23/18

[TESTDATE]03/06/18

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HO4-ID-RO-4ft-H-H-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.7 WATTS

[_ABSOLUTE]LUMENS]6548

[OTHER]see www.finelite.com for source file ITL90233. 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	6548
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	55.1
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 w/Sides
Luminous Length (0-180)	4.00 ft
Luminous Width (90-270)	0.25 ft
Luminous Height	0.18 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	9876	6294	5594
55	9724	5565	4817
65	9468	4805	4525
75	8884	4556	4266
85	6908	2497	747

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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	938.982	938.982	938.982	938.982	938.982
2.5	938.228	937.475	934.460	932.200	932.200
5.0	936.721	932.200	926.924	923.156	921.649
7.5	932.953	925.417	917.881	911.852	911.852
10.0	927.678	915.620	906.577	900.548	899.041
12.5	920.896	903.563	894.520	887.737	884.723
15.0	912.606	890.752	881.709	874.173	871.158
17.5	902.809	876.433	866.637	859.854	856.086
20.0	891.505	861.361	851.565	844.029	841.014
22.5	877.187	844.782	834.985	828.203	825.189
25.0	861.361	825.942	816.899	810.870	808.610
27.5	844.029	807.102	798.813	792.784	790.523
30.0	825.189	786.755	778.466	773.944	772.437
32.5	804.088	764.901	758.119	753.597	752.090
35.0	782.234	742.293	736.264	733.250	731.743
37.5	760.379	718.932	714.410	712.149	710.642
40.0	734.003	694.063	690.295	688.788	688.034
42.5	706.874	667.687	665.426	664.673	661.658
45.0	678.991	640.557	640.557	639.050	636.036
47.5	648.847	611.921	614.182	610.414	607.399
50.0	617.196	583.284	587.052	582.530	577.255
52.5	585.545	553.894	559.169	552.387	546.358
55.0	552.387	523.750	529.025	519.982	524.504
57.5	516.968	492.852	497.374	498.881	505.664
60.0	481.548	461.201	464.969	480.041	489.084
62.5	446.883	429.550	433.318	462.709	472.505
65.0	408.450	396.392	410.710	445.376	455.926
67.5	370.770	363.234	389.610	428.797	440.854
70.0	331.583	330.075	370.770	412.971	424.275
72.5	290.888	294.656	352.683	395.638	405.435
75.0	250.194	263.759	333.843	375.291	382.074
77.5	208.746	240.397	312.743	347.408	349.669
80.0	167.299	219.297	285.613	304.453	298.424
82.5	125.851	198.196	241.905	229.093	206.486
85.0	85.156	169.559	146.951	84.403	56.520
87.5	47.477	88.171	58.781	45.969	36.173
90.0	24.115	55.766	48.984	38.433	30.144
92.5	42.201	79.128	73.099	64.809	56.520
95.0	72.345	107.764	103.996	95.707	88.171
97.5	101.736	137.155	135.647	128.111	120.576
100.0	131.879	171.067	169.559	162.777	155.241
102.5	167.299	207.239	205.732	199.703	191.414
105.0	205.732	246.426	243.412	238.137	229.093
107.5	246.426	284.860	283.352	276.570	268.281
110.0	288.628	324.047	325.554	318.018	308.975
112.5	333.843	361.727	370.770	360.973	351.176
115.0	379.059	405.435	415.986	404.682	394.885
117.5	425.782	452.912	462.709	450.651	440.101
120.0	474.013	498.881	509.432	496.620	485.316
122.5	523.750	544.851	556.155	544.097	529.779
125.0	573.487	593.081	602.124	592.327	576.502
127.5	623.978	640.557	645.079	640.557	624.732
130.0	674.469	688.788	694.063	688.788	672.962
132.5	726.468	737.771	745.307	737.018	721.946

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CANDELA TABULATION - (Cont.)

135.0	776.959	785.248	794.291	785.248	770.930
137.5	827.450	834.232	839.507	831.971	819.160
140.0	877.187	880.201	886.230	877.187	865.883
142.5	926.171	926.171	931.446	922.403	912.606
145.0	972.894	970.633	975.155	967.619	958.575
147.5	1016.602	1011.327	1016.602	1011.327	1001.530
150.0	1058.804	1054.282	1059.557	1053.529	1045.239
152.5	1098.744	1091.208	1098.744	1091.962	1082.919
155.0	1135.671	1126.628	1134.917	1128.135	1122.860
157.5	1168.829	1160.539	1166.568	1160.539	1156.771
160.0	1199.726	1190.683	1198.973	1192.190	1189.176
162.5	1226.856	1218.566	1226.102	1219.320	1216.306
165.0	1250.217	1244.189	1247.957	1244.189	1240.421
167.5	1269.811	1266.043	1267.550	1266.043	1263.782
170.0	1286.390	1284.129	1284.883	1284.129	1282.622
172.5	1298.448	1299.201	1297.694	1297.694	1297.694
175.0	1308.244	1308.244	1308.244	1308.244	1307.491
177.5	1314.273	1314.273	1314.273	1313.520	1313.520
180.0	1315.780	1315.780	1315.780	1315.780	1315.780

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	337.72	N.A.	5.20
0-30	717.01	N.A.	11.00
0-40	1181.81	N.A.	18.00
0-60	2152.4	N.A.	32.90
0-80	2909.04	N.A.	44.40
0-90	3055.19	N.A.	46.70
10-90	2967.2	N.A.	45.30
20-40	844.09	N.A.	12.90
20-50	1341.08	N.A.	20.50
40-70	1388.66	N.A.	21.20
60-80	756.64	N.A.	11.60
70-80	338.57	N.A.	5.20
80-90	146.15	N.A.	2.20
90-110	357.64	N.A.	5.50
90-120	758.12	N.A.	11.60
90-130	1286.38	N.A.	19.60
90-150	2497.62	N.A.	38.10
90-180	3492.82	N.A.	53.30
110-180	3135.18	N.A.	47.90
0-180	6548.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

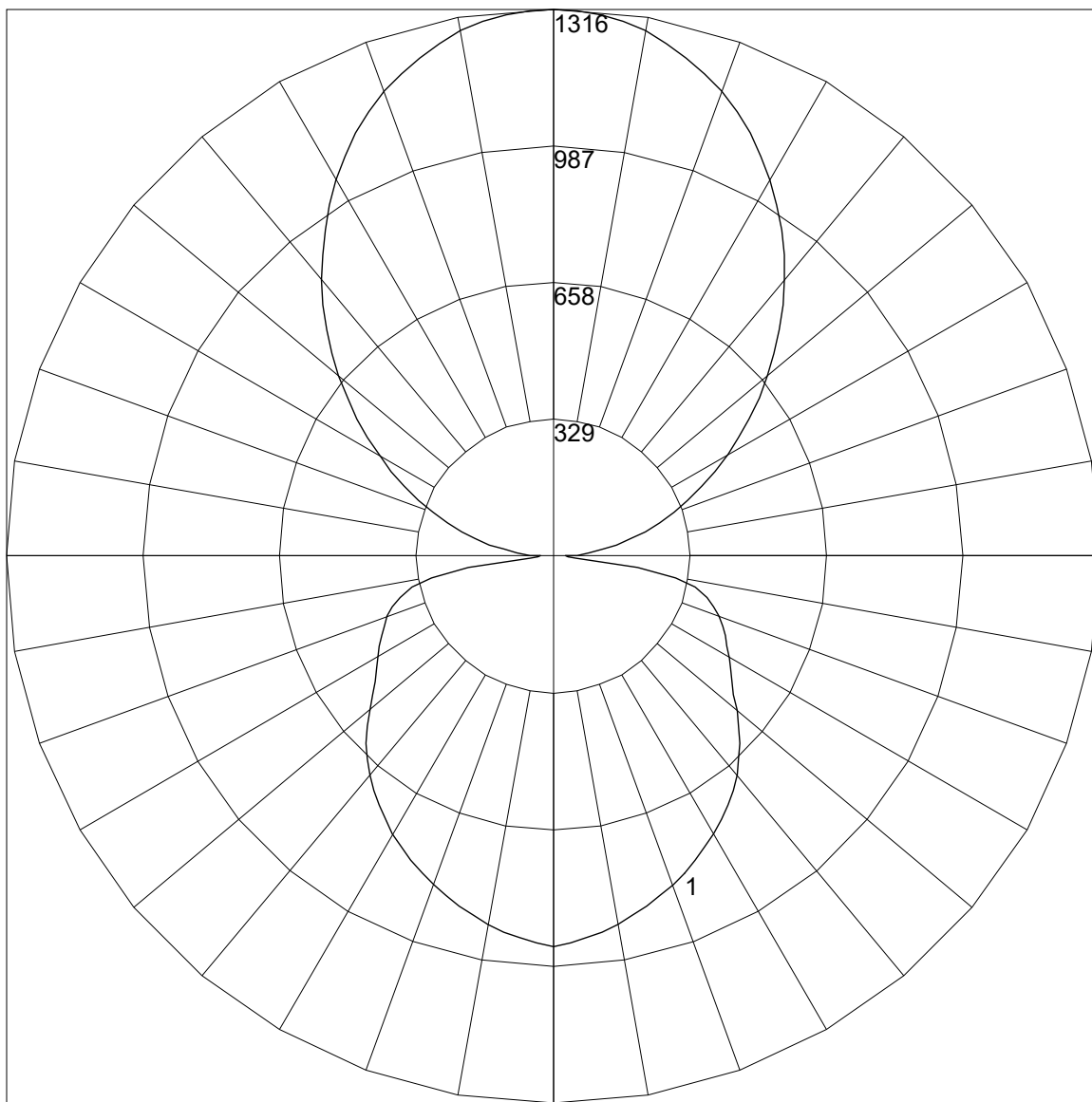
Zone	Lumens
0-10	87.99
10-20	249.73
20-30	379.29
30-40	464.80
40-50	496.99
50-60	473.60
60-70	418.07
70-80	338.57
80-90	146.15
90-100	107.23
100-110	250.41
110-120	400.48
120-130	528.25
130-140	605.05
140-150	606.19
150-160	520.00
160-170	351.09
170-180	124.11

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	81	81	81	67	67	67	53	53	53	47
1	96	91	87	83	88	84	80	77	70	67	65	57	55	53	45	44	43	37
2	87	79	72	67	79	72	67	62	60	56	52	49	46	43	39	37	35	30
3	79	69	61	55	72	63	56	51	53	48	43	43	39	36	34	31	29	25
4	72	61	52	46	66	56	48	43	47	41	37	38	34	31	30	27	25	21
5	66	54	45	39	60	50	42	36	41	36	31	34	30	26	27	24	21	18
6	61	48	40	34	55	44	37	31	37	31	27	31	26	23	24	21	19	16
7	56	43	35	29	51	40	33	27	34	28	24	28	23	20	22	19	16	14
8	52	39	31	26	47	36	29	24	31	25	21	25	21	18	20	17	15	12
9	48	36	28	23	44	33	26	21	28	22	19	23	19	16	19	15	13	11
10	45	33	25	20	41	30	24	19	26	20	17	21	17	14	17	14	12	10

POLAR GRAPH



Maximum Candela = 1315.78 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)