

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-B-B-835-TG-ITL90233.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.003 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-B-B-835-TG

[_INPUT_ELECTRICAL]120.0 VOLTS, 35.7 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 38.3 WATTS

[_ABSOLUTE]LUMENS]4333

[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	4333
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	35.7
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	6535	4165	3702
55	6434	3682	3188
65	6265	3180	2994
75	5879	3015	2823
85	4572	1652	494

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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	621.350	621.350	621.350	621.350	621.350
2.5	620.852	620.353	618.358	616.862	616.862
5.0	619.854	616.862	613.371	610.878	609.881
7.5	617.361	612.374	607.387	603.398	603.398
10.0	613.870	605.891	599.907	595.918	594.920
12.5	609.382	597.913	591.928	587.440	585.446
15.0	603.897	589.435	583.451	578.464	576.469
17.5	597.414	579.960	573.477	568.989	566.496
20.0	589.934	569.987	563.504	558.517	556.522
22.5	580.459	559.016	552.533	548.045	546.050
25.0	569.987	546.549	540.565	536.575	535.079
27.5	558.517	534.082	528.597	524.607	523.111
30.0	546.050	520.618	515.132	512.140	511.143
32.5	532.087	506.156	501.668	498.676	497.679
35.0	517.626	491.196	487.206	485.212	484.214
37.5	503.164	475.737	472.745	471.249	470.251
40.0	485.710	459.281	456.787	455.790	455.291
42.5	467.758	441.827	440.331	439.832	437.838
45.0	449.307	423.875	423.875	422.877	420.883
47.5	429.360	404.925	406.421	403.928	401.933
50.0	408.416	385.975	388.469	385.477	381.986
52.5	387.471	366.527	370.018	365.530	361.540
55.0	365.530	346.580	350.071	344.086	347.078
57.5	342.092	326.134	329.126	330.124	334.612
60.0	318.654	305.190	307.683	317.657	323.641
62.5	295.715	284.245	286.739	306.187	312.670
65.0	270.282	262.304	271.778	294.718	301.699
67.5	245.349	240.362	257.815	283.747	291.725
70.0	219.417	218.420	245.349	273.274	280.755
72.5	192.489	194.982	233.380	261.805	268.288
75.0	165.560	174.537	220.913	248.341	252.829
77.5	138.133	159.078	206.951	229.890	231.386
80.0	110.706	145.115	188.998	201.465	197.476
82.5	83.279	131.152	160.075	151.598	136.637
85.0	56.350	112.202	97.242	55.852	37.401
87.5	31.417	58.345	38.897	30.419	23.936
90.0	15.958	36.902	32.414	25.432	19.947
92.5	27.926	52.361	48.372	42.886	37.401
95.0	47.873	71.311	68.817	63.332	58.345
97.5	67.321	90.759	89.762	84.775	79.788
100.0	87.268	113.199	112.202	107.714	102.727
102.5	110.706	137.136	136.139	132.149	126.664
105.0	136.139	163.067	161.072	157.582	151.598
107.5	163.067	188.500	187.502	183.014	177.529
110.0	190.993	214.431	215.428	210.441	204.457
112.5	220.913	239.364	245.349	238.866	232.383
115.0	250.834	268.288	275.269	267.789	261.306
117.5	281.752	299.704	306.187	298.208	291.227
120.0	313.667	330.124	337.105	328.627	321.147
122.5	346.580	360.543	368.023	360.044	350.569
125.0	379.492	392.458	398.442	391.959	381.487
127.5	412.904	423.875	426.867	423.875	413.402
130.0	446.315	455.790	459.281	455.790	445.318
132.5	480.724	488.204	493.191	487.705	477.732

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-B-B-835-TG-ITL90233.003.IES****CANDELA TABULATION - (Cont.)**

135.0	514.135	519.620	525.605	519.620	510.146
137.5	547.546	552.034	555.525	550.538	542.061
140.0	580.459	582.454	586.443	580.459	572.979
142.5	612.873	612.873	616.364	610.379	603.897
145.0	643.791	642.295	645.287	640.300	634.316
147.5	672.714	669.223	672.714	669.223	662.740
150.0	700.640	697.648	701.138	697.149	691.664
152.5	727.070	722.083	727.070	722.582	716.597
155.0	751.505	745.521	751.006	746.518	743.027
157.5	773.446	767.961	771.950	767.961	765.468
160.0	793.892	787.908	793.394	788.905	786.911
162.5	811.845	806.359	811.346	806.858	804.863
165.0	827.303	823.314	825.807	823.314	820.821
167.5	840.269	837.776	838.773	837.776	836.280
170.0	851.240	849.744	850.243	849.744	848.747
172.5	859.219	859.717	858.720	858.720	858.720
175.0	865.702	865.702	865.702	865.702	865.203
177.5	869.691	869.691	869.691	869.192	869.192
180.0	870.688	870.688	870.688	870.688	870.688

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.48	N.A.	5.20
0-30	474.47	N.A.	11.00
0-40	782.03	N.A.	18.00
0-60	1424.3	N.A.	32.90
0-80	1924.99	N.A.	44.40
0-90	2021.7	N.A.	46.70
10-90	1963.48	N.A.	45.30
20-40	558.55	N.A.	12.90
20-50	887.43	N.A.	20.50
40-70	918.92	N.A.	21.20
60-80	500.69	N.A.	11.60
70-80	224.04	N.A.	5.20
80-90	96.71	N.A.	2.20
90-110	236.66	N.A.	5.50
90-120	501.67	N.A.	11.60
90-130	851.23	N.A.	19.60
90-150	1652.74	N.A.	38.10
90-180	2311.29	N.A.	53.30
110-180	2074.63	N.A.	47.90
0-180	4333.00	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.23
10-20	165.25
20-30	250.99
30-40	307.57
40-50	328.87
50-60	313.40
60-70	276.65
70-80	224.04
80-90	96.71
90-100	70.96
100-110	165.70
110-120	265.01
120-130	349.56
130-140	400.38
140-150	401.13
150-160	344.10
160-170	232.33
170-180	82.13

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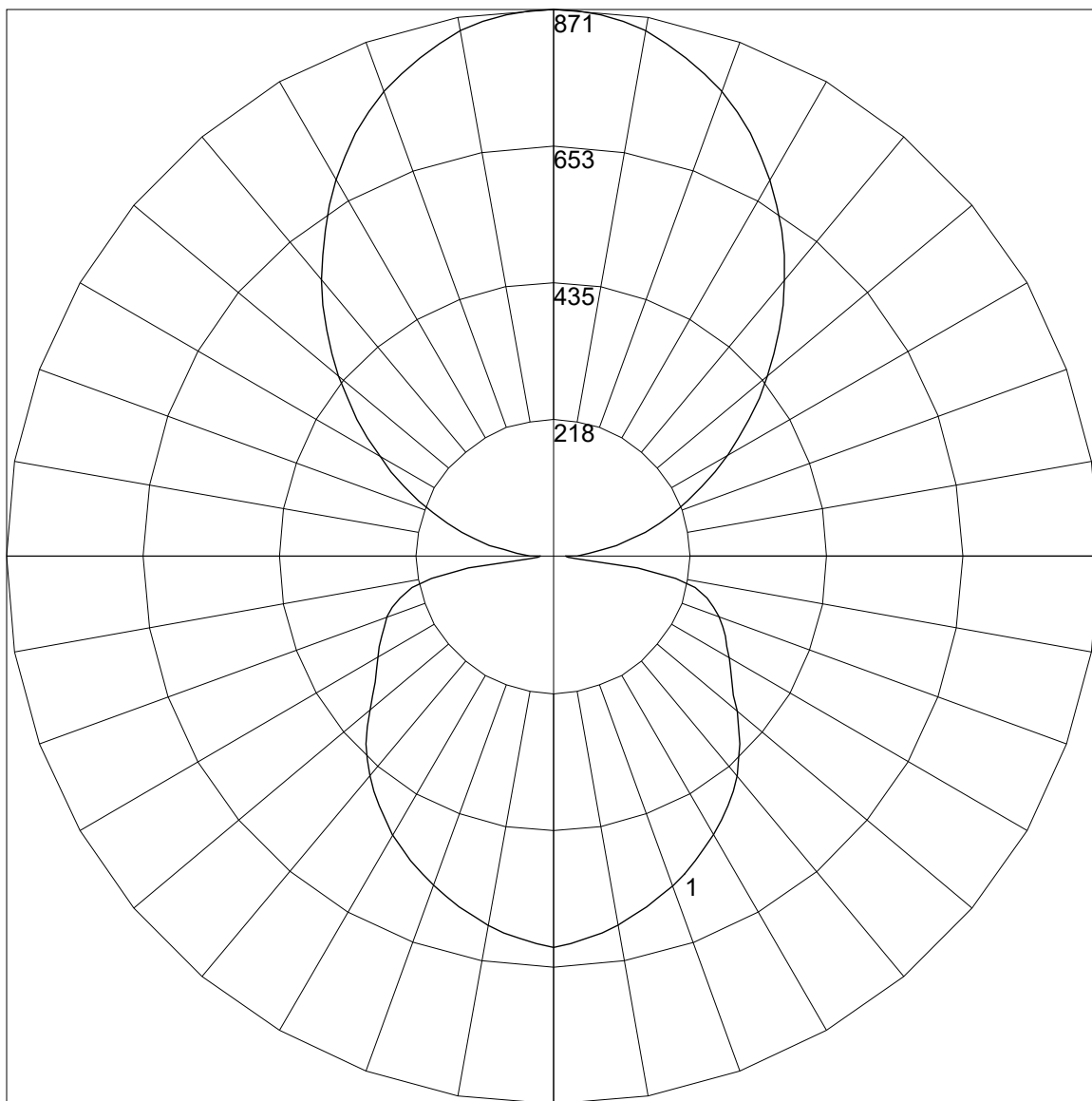
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	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 = 870.688 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)