

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-B-835-TG-ITL90233.009.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.009 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-B-835-TG
[INPUT_ELECTRICAL]120.0 VOLTS, 45.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 47.5 WATTS
[ABSOLUTE LUMENS]5513
[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	5513
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	121
Total Luminaire Watts	45.4
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 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	6536	4165	3702
55	6435	3683	3188
65	6266	3180	2995
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	621.393	621.393	621.393	621.393	621.393
2.5	620.894	620.396	618.401	616.905	616.905
5.0	619.897	616.905	613.414	610.920	609.923
7.5	617.403	612.416	607.429	603.439	603.439
10.0	613.912	605.933	599.948	595.959	594.961
12.5	609.424	597.954	591.969	587.481	585.486
15.0	603.938	589.475	583.491	578.504	576.509
17.5	597.455	580.000	573.517	569.028	566.535
20.0	589.974	570.026	563.543	558.555	556.561
22.5	580.499	559.054	552.571	548.083	546.088
25.0	570.026	546.586	540.602	536.612	535.116
27.5	558.555	534.119	528.633	524.643	523.147
30.0	546.088	520.653	515.168	512.175	511.178
32.5	532.124	506.191	501.702	498.710	497.713
35.0	517.661	491.230	487.240	485.245	484.248
37.5	503.199	475.770	472.777	471.281	470.284
40.0	485.744	459.312	456.819	455.821	455.322
42.5	467.790	441.857	440.361	439.862	437.868
45.0	449.338	423.904	423.904	422.906	420.911
47.5	429.390	404.953	406.449	403.955	401.960
50.0	408.444	386.002	388.495	385.503	382.012
52.5	387.498	366.552	370.043	365.555	361.565
55.0	365.555	346.604	350.095	344.110	347.102
57.5	342.115	326.157	329.149	330.146	334.635
60.0	318.676	305.211	307.704	317.678	323.663
62.5	295.735	284.265	286.758	306.208	312.691
65.0	270.301	262.322	271.797	294.738	301.720
67.5	245.365	240.378	257.833	283.766	291.745
70.0	219.433	218.435	245.365	273.293	280.774
72.5	192.502	194.996	233.396	261.823	268.306
75.0	165.572	174.549	220.929	248.358	252.846
77.5	138.143	159.089	206.965	229.905	231.402
80.0	110.714	145.125	189.011	201.479	197.489
82.5	83.285	131.161	160.086	151.608	136.647
85.0	56.354	112.210	97.248	55.856	37.403
87.5	31.419	58.349	38.899	30.421	23.938
90.0	15.959	36.905	32.416	25.434	19.948
92.5	42.204	79.133	73.104	64.814	56.524
95.0	72.350	107.772	104.003	95.713	88.177
97.5	101.743	137.164	135.657	128.120	120.584
100.0	131.888	171.078	169.571	162.788	155.252
102.5	167.310	207.253	205.746	199.717	191.427
105.0	205.746	246.443	243.428	238.153	229.109
107.5	246.443	284.879	283.372	276.589	268.299
110.0	288.647	324.069	325.576	318.040	308.996
112.5	333.866	361.751	370.795	360.997	351.200
115.0	379.085	405.463	416.014	404.709	394.912
117.5	425.811	452.943	462.740	450.682	440.131
120.0	474.045	498.915	509.466	496.654	485.349
122.5	523.786	544.888	556.192	544.134	529.815
125.0	573.526	593.121	602.165	592.367	576.541
127.5	624.021	640.601	645.123	640.601	624.774
130.0	674.515	688.834	694.110	688.834	673.008
132.5	726.517	737.822	745.358	737.068	721.995

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-B-835-TG-ITL90233.009.IES****CANDELA TABULATION - (Cont.)**

135.0	777.011	785.301	794.345	785.301	770.982
137.5	827.506	834.289	839.564	832.028	819.216
140.0	877.247	880.261	886.290	877.247	865.942
142.5	926.234	926.234	931.509	922.465	912.668
145.0	972.960	970.699	975.221	967.684	958.641
147.5	1016.671	1011.396	1016.671	1011.396	1001.598
150.0	1058.876	1054.354	1059.629	1053.600	1045.310
152.5	1098.819	1091.283	1098.819	1092.036	1082.992
155.0	1135.748	1126.704	1134.994	1128.211	1122.936
157.5	1168.908	1160.618	1166.647	1160.618	1156.850
160.0	1199.808	1190.764	1199.054	1192.271	1189.257
162.5	1226.939	1218.649	1226.186	1219.403	1216.388
165.0	1250.302	1244.273	1248.041	1244.273	1240.505
167.5	1269.897	1266.129	1267.636	1266.129	1263.868
170.0	1286.478	1284.216	1284.970	1284.216	1282.709
172.5	1298.536	1299.289	1297.782	1297.782	1297.782
175.0	1308.333	1308.333	1308.333	1308.333	1307.580
177.5	1314.362	1314.362	1314.362	1313.609	1313.609
180.0	1315.870	1315.870	1315.870	1315.870	1315.870

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	223.50	N.A.	4.10
0-30	474.50	N.A.	8.60
0-40	782.09	N.A.	14.20
0-60	1424.4	N.A.	25.80
0-80	1925.12	N.A.	34.90
0-90	2021.84	N.A.	36.70
10-90	1963.61	N.A.	35.60
20-40	558.59	N.A.	10.10
20-50	887.49	N.A.	16.10
40-70	918.98	N.A.	16.70
60-80	500.72	N.A.	9.10
70-80	224.05	N.A.	4.10
80-90	96.72	N.A.	1.80
90-110	355.69	N.A.	6.50
90-120	756.20	N.A.	13.70
90-130	1284.49	N.A.	23.30
90-150	2495.81	N.A.	45.30
90-180	3491.08	N.A.	63.30
110-180	3135.39	N.A.	56.90
0-180	5512.92	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	58.23
10-20	165.27
20-30	251.00
30-40	307.59
40-50	328.90
50-60	313.42
60-70	276.67
70-80	224.05
80-90	96.72
90-100	105.26
100-110	250.42
110-120	400.51
120-130	528.29
130-140	605.09
140-150	606.23
150-160	520.03
160-170	351.12
170-180	124.12

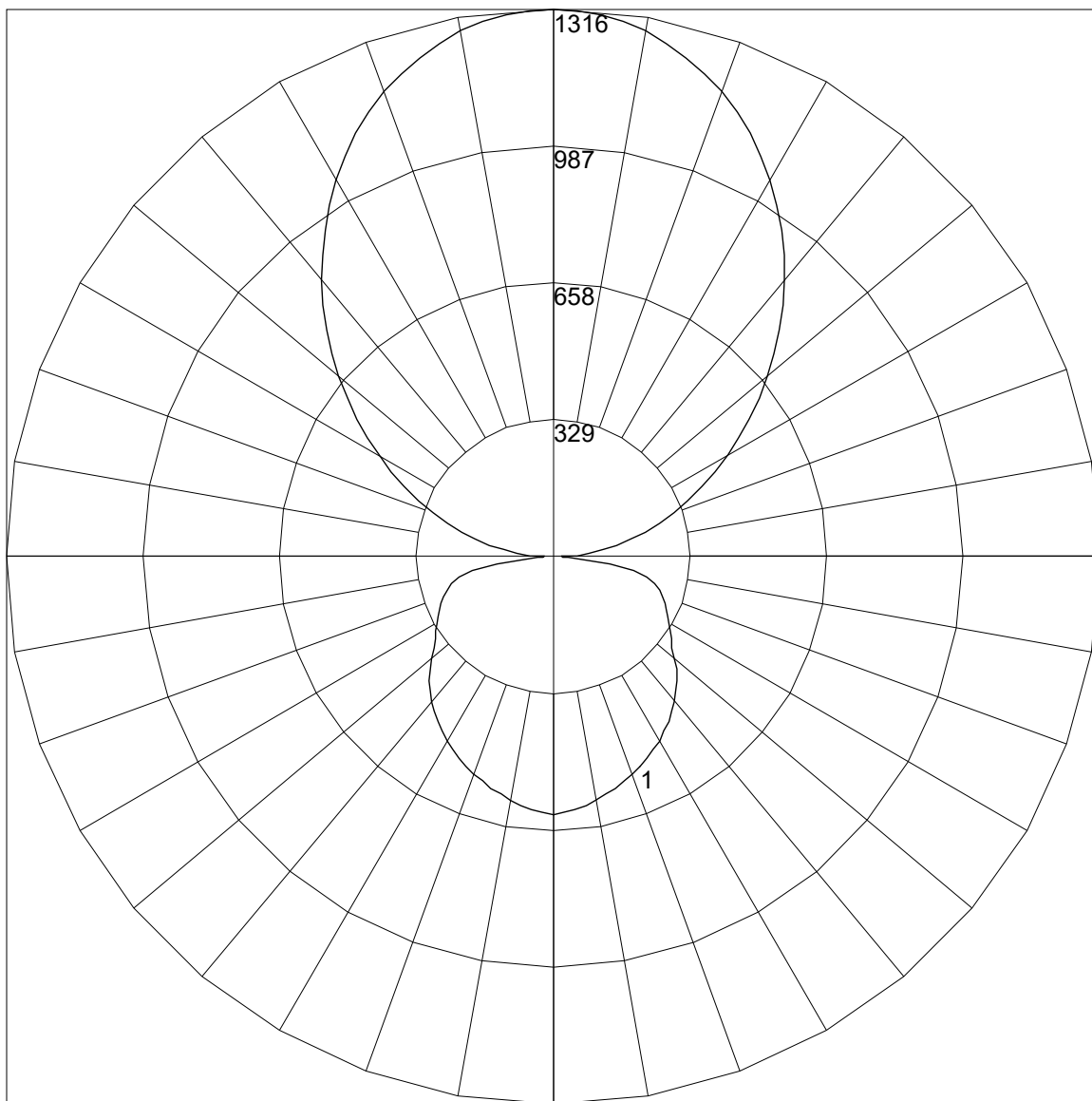
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	94	89	85	82	85	81	77	74	65	63	60	51	49	48	37	36	35	29
2	85	77	71	66	77	70	65	60	57	53	49	44	41	39	32	31	29	24
3	77	68	60	54	70	61	55	50	49	45	41	38	35	32	28	26	24	19
4	71	60	51	45	63	54	47	42	44	38	34	34	30	27	25	23	20	16
5	65	53	45	39	58	48	41	35	39	33	29	30	26	23	22	20	18	14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	12
7	55	42	34	29	49	39	32	27	31	26	22	25	21	18	18	16	14	11
8	51	38	31	25	46	35	28	23	29	23	20	23	19	16	17	14	12	10
9	47	35	27	22	42	32	25	21	26	21	17	21	17	14	15	13	11	9
10	44	32	25	20	40	29	23	18	24	19	16	19	15	13	14	12	10	8

POLAR GRAPH



Maximum Candela = 1315.87 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)