

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-WSOTG-ITL90232.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/01/18

[TESTDATE]03/26/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 54.8 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.4 WATTS

[_ABSOLUTE]LUMENS]6512

[OTHER]see www.finelite.com for source file ITL90232. 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	6512
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	54.8
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	9568	6161	5452
55	9452	5432	4678
65	9226	4694	4389
75	8581	4386	4012
85	6663	2227	887

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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	911.286	911.286	911.286	911.286	911.286
2.5	911.286	910.496	909.706	908.917	908.127
5.0	908.917	906.548	902.599	899.441	898.651
7.5	904.179	900.230	893.123	888.385	887.596
10.0	899.441	891.544	882.857	878.119	874.171
12.5	893.123	879.699	871.802	865.485	860.747
15.0	885.226	867.854	858.377	852.850	848.112
17.5	876.540	854.429	844.953	839.425	834.687
20.0	863.905	838.636	829.159	822.842	818.894
22.5	850.481	822.842	813.366	807.049	803.100
25.0	835.477	805.469	795.993	791.255	787.307
27.5	818.104	786.517	777.041	773.093	770.723
30.0	800.731	767.565	758.878	755.720	753.351
32.5	780.200	746.244	739.136	736.767	735.188
35.0	758.089	724.133	718.605	717.026	714.657
37.5	736.767	701.232	697.284	695.704	693.335
40.0	711.498	675.173	674.383	672.804	669.645
42.5	686.228	650.693	651.482	649.113	645.955
45.0	657.800	622.264	627.003	623.844	619.895
47.5	629.372	595.415	600.943	596.205	592.257
50.0	600.154	567.777	573.305	567.777	561.459
52.5	569.356	539.349	545.666	536.979	530.662
55.0	536.979	510.131	516.448	506.972	509.341
57.5	503.813	480.123	486.440	484.861	491.178
60.0	469.067	449.325	454.853	466.698	474.595
62.5	433.532	417.738	424.056	449.325	458.012
65.0	397.997	386.151	401.155	431.953	442.218
67.5	360.882	353.775	380.624	415.369	424.846
70.0	322.188	320.608	360.882	397.207	406.683
72.5	283.494	286.652	341.930	377.465	385.362
75.0	241.641	256.645	321.398	353.775	359.302
77.5	203.736	233.744	298.497	322.188	323.767
80.0	162.673	211.633	268.490	276.386	270.859
82.5	122.400	188.732	221.109	198.998	183.205
85.0	82.126	157.145	131.086	86.864	67.122
87.5	42.642	78.968	58.436	48.960	41.063
90.0	9.476	52.119	46.591	38.694	30.797
92.5	21.321	64.753	55.277	46.591	37.904
95.0	35.535	102.658	120.031	64.753	49.750
97.5	56.067	146.090	250.327	128.717	95.551
100.0	79.757	180.836	443.798	240.851	164.253
102.5	105.027	212.423	585.939	450.115	295.339
105.0	130.296	240.061	634.899	787.307	551.983
107.5	156.356	264.541	639.637	1081.066	931.028
110.0	181.625	288.232	636.479	1225.577	1195.569
112.5	207.685	311.132	638.848	1277.695	1341.659
115.0	235.323	334.823	643.586	1272.168	1397.726
117.5	266.121	359.302	651.482	1243.739	1403.254
120.0	291.390	382.203	660.169	1206.624	1383.512
122.5	312.712	401.155	666.486	1169.510	1347.976
125.0	332.453	418.528	670.435	1130.026	1305.334
127.5	351.406	432.742	671.224	1088.173	1257.164
130.0	368.779	446.167	672.804	1045.531	1204.255
132.5	382.993	458.012	672.804	1006.047	1150.558

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-H-835-WSOTG-ITL90232.004.IES****CANDELA TABULATION - (Cont.)**

135.0	397.207	469.067	672.804	968.932	1097.649
137.5	411.421	479.333	668.855	932.607	1047.110
140.0	425.635	488.809	663.328	895.492	997.360
142.5	441.429	499.075	658.590	859.167	949.190
145.0	455.643	508.551	651.482	823.632	900.230
147.5	468.278	514.869	642.796	790.465	856.008
150.0	482.492	523.555	634.899	759.668	813.366
152.5	495.127	529.872	627.792	730.450	773.882
155.0	507.761	534.610	619.106	702.811	737.557
157.5	518.817	541.718	608.840	675.962	705.180
160.0	528.293	546.456	600.943	652.272	675.173
162.5	538.559	550.404	594.626	632.530	649.903
165.0	546.456	555.142	588.308	614.368	627.792
167.5	553.563	559.090	581.201	600.154	609.630
170.0	559.090	563.039	575.674	588.308	594.626
172.5	563.039	566.197	573.305	579.622	583.570
175.0	566.197	567.777	570.936	574.094	574.884
177.5	567.777	568.567	569.356	570.146	570.146
180.0	568.567	568.567	568.567	568.567	568.567

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-H-835-WSOTG-ITL90232.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	328.84	N.A.	5.00
0-30	698.22	N.A.	10.70
0-40	1151.49	N.A.	17.70
0-60	2097.33	N.A.	32.20
0-80	2827.28	N.A.	43.40
0-90	2963.7	N.A.	45.50
10-90	2878.08	N.A.	44.20
20-40	822.65	N.A.	12.60
20-50	1307.2	N.A.	20.10
40-70	1352.31	N.A.	20.80
60-80	729.95	N.A.	11.20
70-80	323.49	N.A.	5.00
80-90	136.42	N.A.	2.10
90-110	635.68	N.A.	9.80
90-120	1387.33	N.A.	21.30
90-130	2067.26	N.A.	31.70
90-150	3039.48	N.A.	46.70
90-180	3548.52	N.A.	54.50
110-180	2912.84	N.A.	44.70
0-180	6512.22	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	85.62
10-20	243.22
20-30	369.39
30-40	453.27
40-50	484.55
50-60	461.29
60-70	406.46
70-80	323.49
80-90	136.42
90-100	115.63
100-110	520.06
110-120	751.65
120-130	679.93
130-140	553.60
140-150	418.62
150-160	287.66
160-170	166.74
170-180	54.65

IES INDOOR REPORT

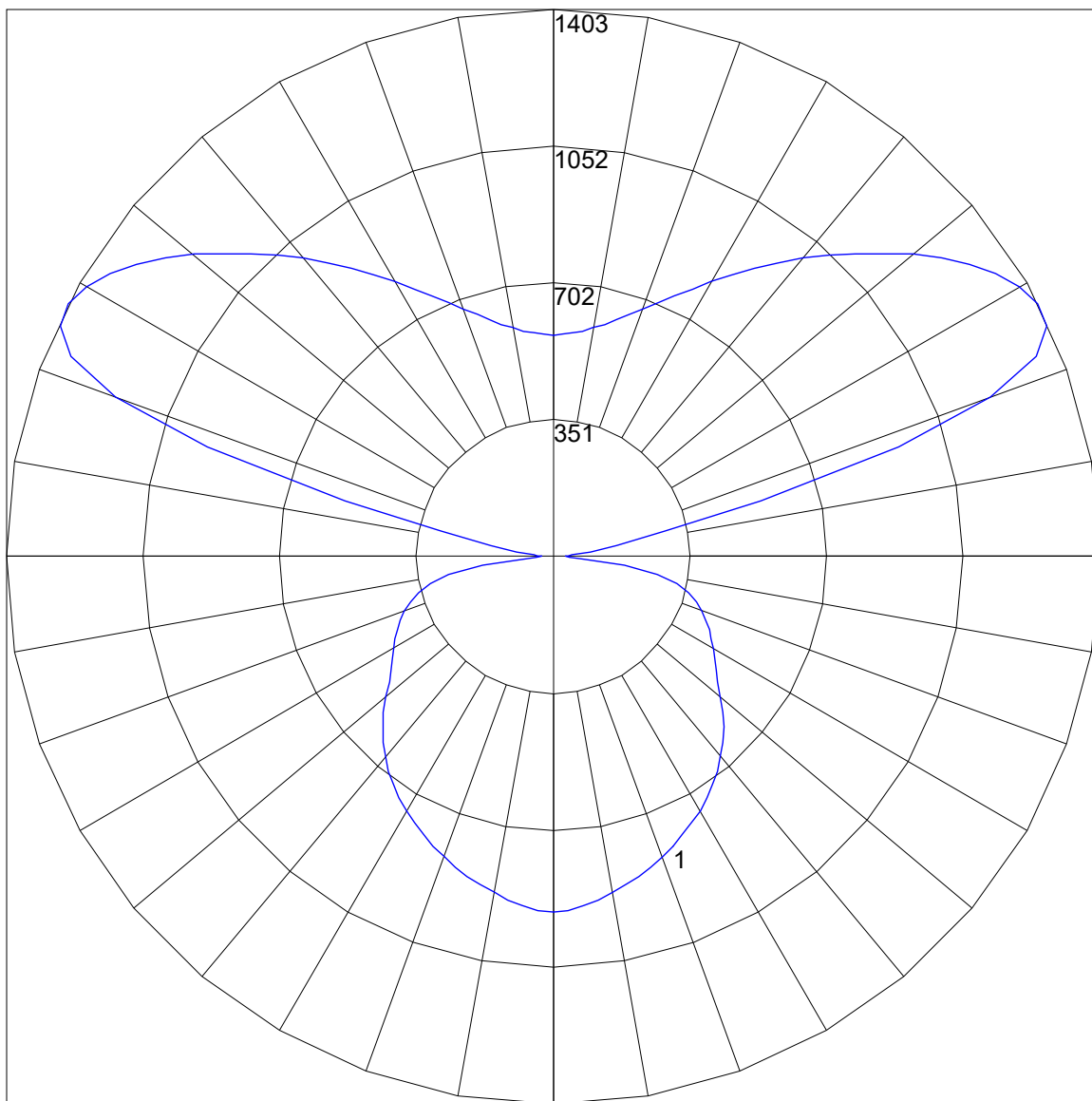
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	96	91	87	83	88	83	80	77	69	67	64	56	54	53	44	43	42	36
2	87	79	72	67	79	72	67	62	60	56	52	49	46	43	38	36	34	29
3	79	69	61	55	72	63	56	51	52	47	43	43	39	36	33	31	29	24
4	72	61	52	46	65	56	48	43	46	41	36	38	34	30	30	27	24	20
5	66	54	45	39	60	49	42	36	41	36	31	34	29	26	27	23	21	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	33	27	33	28	24	27	23	20	22	19	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	21	18	20	17	14	12
9	48	36	28	23	44	33	26	21	28	22	19	23	19	16	18	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 = 1403.254 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)