

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-V-H-835-WSOTG-ITL90232.007.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.007 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-V-H-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 63.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 64.8 WATTS

[_ABSOLUTE]LUMENS]7525

[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	7524
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	119
Total Luminaire Watts	63.1
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	9568	6161	5452
55	9453	5432	4678
65	9226	4694	4389
75	8581	4386	4012
85	6662	2227	887

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	911.289	911.289	911.289	911.289	911.289
2.5	911.289	910.497	909.705	908.913	908.132
5.0	908.913	906.548	902.599	899.441	898.649
7.5	904.182	900.233	893.127	888.385	887.594
10.0	899.441	891.543	882.863	878.121	874.172
12.5	893.127	879.695	871.807	865.482	860.751
15.0	885.228	867.858	858.375	852.852	848.111
17.5	876.538	854.426	844.954	839.421	834.690
20.0	863.908	838.639	829.157	822.842	818.893
22.5	850.477	822.842	813.370	807.045	803.096
25.0	835.482	805.472	795.990	791.259	787.309
27.5	818.101	786.517	777.045	773.096	770.720
30.0	800.731	767.563	758.883	755.715	753.350
32.5	780.203	746.243	739.137	736.771	735.188
35.0	758.091	724.132	718.609	717.025	714.660
37.5	736.771	701.228	697.279	695.705	693.340
40.0	711.502	675.177	674.386	672.802	669.644
42.5	686.233	650.690	651.482	649.117	645.959
45.0	657.797	622.264	627.005	623.847	619.898
47.5	629.370	595.411	600.944	596.203	592.254
50.0	600.152	567.776	573.309	567.776	561.462
52.5	569.360	539.350	545.665	536.985	530.660
55.0	536.985	510.132	516.447	506.974	509.340
57.5	503.817	480.122	486.436	484.863	491.177
60.0	469.066	449.330	454.853	466.700	474.599
62.5	433.533	417.736	424.061	449.330	458.010
65.0	398.000	386.152	401.157	431.949	442.223
67.5	360.883	353.777	380.619	415.370	424.842
70.0	322.193	320.609	360.883	397.208	406.680
72.5	283.492	286.650	341.929	377.462	385.360
75.0	241.645	256.650	321.401	353.777	359.299
77.5	203.736	233.746	298.497	322.193	323.766
80.0	162.670	211.634	268.487	276.386	270.863
82.5	122.396	188.731	221.107	198.995	183.208
85.0	82.122	157.147	131.086	86.863	67.127
87.5	42.640	78.964	58.437	48.964	41.066
90.0	9.472	52.122	46.589	38.690	30.802
92.5	27.411	83.249	71.066	59.898	48.731
95.0	45.685	131.980	154.315	83.249	63.959
97.5	72.081	187.817	321.827	165.482	122.843
100.0	102.538	232.487	570.558	309.645	211.167
102.5	135.025	273.096	753.299	578.680	379.695
105.0	167.513	308.629	816.243	1012.182	709.644
107.5	201.015	340.101	822.335	1389.847	1196.954
110.0	233.502	370.558	818.274	1575.634	1537.055
112.5	267.005	400.000	821.319	1642.639	1724.872
115.0	302.538	430.457	827.411	1635.532	1796.954
117.5	342.132	461.929	837.563	1598.984	1804.060
120.0	374.619	491.370	848.731	1551.268	1778.680
122.5	402.030	515.736	856.852	1503.553	1732.994
125.0	427.411	538.071	861.929	1452.791	1678.172
127.5	451.776	556.345	862.944	1398.984	1616.243
130.0	474.111	573.604	864.974	1344.162	1548.223
132.5	492.386	588.832	864.974	1293.401	1479.187

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-H-835-WSOTG-ITL90232.007.IES****CANDELA TABULATION - (Cont.)**

135.0	510.660	603.045	864.974	1245.685	1411.167
137.5	528.934	616.243	859.898	1198.984	1346.192
140.0	547.208	628.426	852.792	1151.269	1282.233
142.5	567.512	641.624	846.700	1104.568	1220.304
145.0	585.787	653.807	837.563	1058.883	1157.360
147.5	602.030	661.929	826.396	1016.243	1100.507
150.0	620.304	673.096	816.243	976.649	1045.685
152.5	636.548	681.218	807.106	939.086	994.923
155.0	652.792	687.309	795.939	903.553	948.223
157.5	667.005	696.446	782.741	869.035	906.599
160.0	679.188	702.538	772.589	838.578	868.020
162.5	692.386	707.614	764.467	813.198	835.533
165.0	702.538	713.705	756.345	789.847	807.106
167.5	711.675	718.781	747.208	771.573	783.756
170.0	718.781	723.858	740.101	756.345	764.467
172.5	723.858	727.918	737.056	745.177	750.254
175.0	727.918	729.949	734.010	738.071	739.086
177.5	729.949	730.964	731.979	732.995	732.995
180.0	730.964	730.964	730.964	730.964	730.964

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	328.84	N.A.	4.40
0-30	698.22	N.A.	9.30
0-40	1151.49	N.A.	15.30
0-60	2097.34	N.A.	27.90
0-80	2827.28	N.A.	37.60
0-90	2963.7	N.A.	39.40
10-90	2878.08	N.A.	38.30
20-40	822.65	N.A.	10.90
20-50	1307.2	N.A.	17.40
40-70	1352.31	N.A.	18.00
60-80	729.95	N.A.	9.70
70-80	323.49	N.A.	4.30
80-90	136.42	N.A.	1.80
90-110	815.71	N.A.	10.80
90-120	1782.05	N.A.	23.70
90-130	2656.18	N.A.	35.30
90-150	3906.09	N.A.	51.90
90-180	4560.54	N.A.	60.60
110-180	3744.83	N.A.	49.80
0-180	7524.24	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	461.30
60-70	406.46
70-80	323.49
80-90	136.42
90-100	147.11
100-110	668.60
110-120	966.34
120-130	874.13
130-140	711.72
140-150	538.18
150-160	369.82
160-170	214.36
170-180	70.26

IES INDOOR REPORT

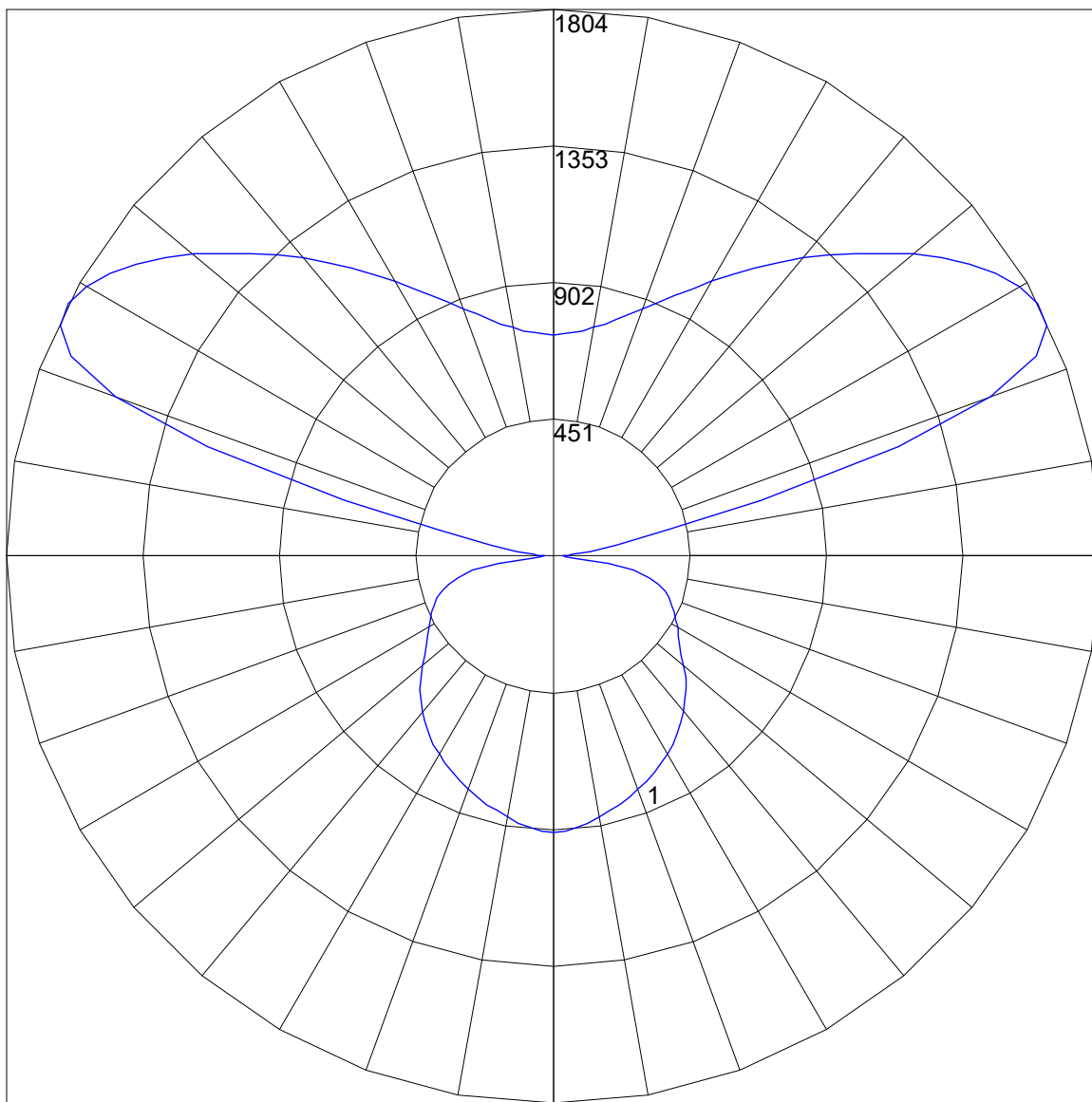
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	90	86	82	86	82	78	75	67	64	62	53	51	49	40	38	37	31
2	86	78	71	66	77	71	65	61	58	54	50	45	43	40	34	32	31	25
3	78	68	60	54	70	62	55	50	50	46	42	40	36	33	30	28	26	21
4	71	60	52	46	64	55	47	42	44	39	35	35	31	28	26	24	22	18
5	65	53	45	39	59	48	41	36	40	34	30	31	27	24	24	21	19	15
6	60	47	39	33	54	43	36	31	36	30	26	28	24	21	21	19	16	13
7	55	43	35	29	50	39	32	27	32	27	23	26	22	18	19	17	14	12
8	51	39	31	25	46	35	28	24	29	24	20	23	19	16	18	15	13	10
9	47	35	28	23	43	32	26	21	27	21	18	21	17	15	16	14	11	9
10	44	32	25	20	40	30	23	19	24	19	16	20	16	13	15	12	10	8

POLAR GRAPH



Maximum Candela = 1804.06 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)