

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-B-835-WSOTG-ITL90232.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.006 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-B-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 53.5 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 55.6 WATTS

[_ABSOLUTE]LUMENS]6519

[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	6519
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	53.5
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	6330	4076	3607
55	6253	3594	3095
65	6103	3105	2904
75	5677	2902	2654
85	4408	1474	587

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	602.863	602.863	602.863	602.863	602.863
2.5	602.863	602.335	601.817	601.289	600.771
5.0	601.289	599.726	597.116	595.025	594.497
7.5	598.152	595.543	590.842	587.705	587.188
10.0	595.025	589.797	584.051	580.913	578.304
12.5	590.842	581.959	576.741	572.558	569.421
15.0	585.624	574.122	567.858	564.203	561.066
17.5	579.868	565.249	558.974	555.320	552.183
20.0	571.512	554.802	548.528	544.345	541.736
22.5	562.629	544.345	538.081	533.898	531.289
25.0	552.710	532.853	526.589	523.452	520.842
27.5	541.218	520.315	514.051	511.441	509.868
30.0	529.726	507.776	502.030	499.949	498.375
32.5	516.142	493.675	488.974	487.411	486.365
35.0	501.512	479.045	475.391	474.345	472.782
37.5	487.411	463.898	461.289	460.243	458.670
40.0	470.690	446.660	446.132	445.096	443.005
42.5	453.969	430.467	430.985	429.421	427.330
45.0	435.167	411.655	414.792	412.700	410.091
47.5	416.355	393.898	397.553	394.416	391.807
50.0	397.025	375.614	379.269	375.614	371.431
52.5	376.660	356.802	360.985	355.238	351.056
55.0	355.238	337.472	341.655	335.391	336.954
57.5	333.299	317.624	321.807	320.761	324.934
60.0	310.315	297.249	300.903	308.741	313.969
62.5	286.802	276.355	280.538	297.249	302.995
65.0	263.289	255.462	265.381	285.756	292.548
67.5	238.741	234.041	251.797	274.782	281.056
70.0	213.147	212.101	238.741	262.771	269.035
72.5	187.543	189.634	226.203	249.716	254.934
75.0	159.858	169.787	212.619	234.041	237.695
77.5	134.782	154.629	197.472	213.147	214.183
80.0	107.614	140.010	177.614	182.843	179.188
82.5	80.975	124.853	146.274	131.645	121.198
85.0	54.335	103.959	86.721	57.462	44.406
87.5	28.213	52.244	38.660	32.386	27.168
90.0	6.264	34.477	30.822	25.594	20.376
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-B-835-WSOTG-ITL90232.006.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

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-B-835-WSOTG-ITL90232.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	217.54	N.A.	3.30
0-30	461.91	N.A.	7.10
0-40	761.76	N.A.	11.70
0-60	1387.49	N.A.	21.30
0-80	1870.38	N.A.	28.70
0-90	1960.63	N.A.	30.10
10-90	1903.99	N.A.	29.20
20-40	544.22	N.A.	8.30
20-50	864.78	N.A.	13.30
40-70	894.62	N.A.	13.70
60-80	482.90	N.A.	7.40
70-80	214.00	N.A.	3.30
80-90	90.25	N.A.	1.40
90-110	813.88	N.A.	12.50
90-120	1780.23	N.A.	27.30
90-130	2654.36	N.A.	40.70
90-150	3904.26	N.A.	59.90
90-180	4558.71	N.A.	69.90
110-180	3744.83	N.A.	57.40
0-180	6519.34	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	56.64
10-20	160.90
20-30	244.37
30-40	299.86
40-50	320.55
50-60	305.17
60-70	268.89
70-80	214.00
80-90	90.25
90-100	145.28
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

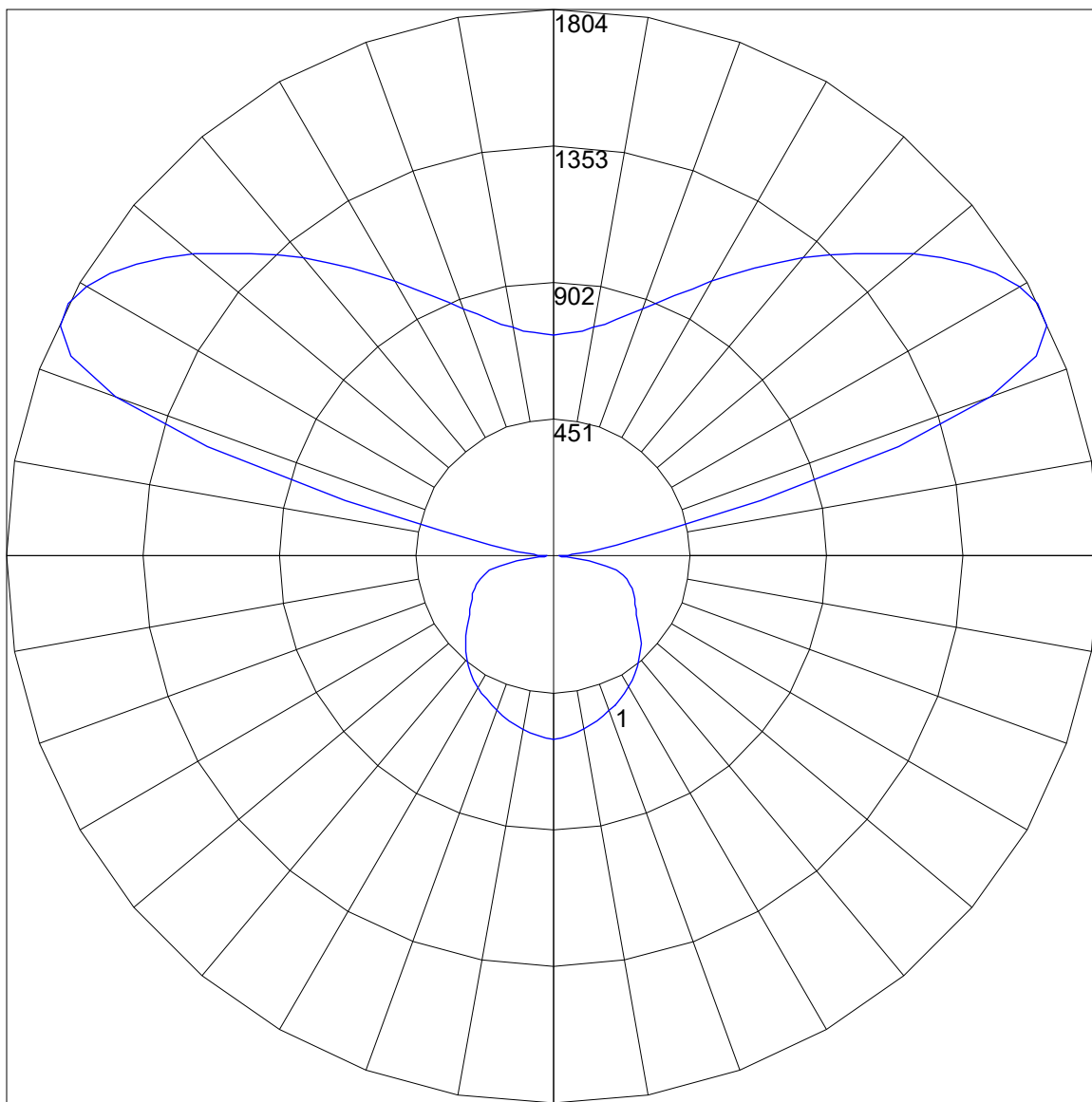
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	102	102	102	102	92	92	92	92	72	72	72	54	54	54	38	38	38	30
1	93	88	84	81	83	79	76	73	62	60	58	47	45	44	32	31	31	24
2	84	76	70	65	75	69	63	59	54	50	47	40	38	36	28	26	25	19
3	76	67	59	54	68	60	54	49	47	43	39	35	32	30	24	23	21	16
4	70	59	51	45	62	53	46	41	42	37	33	31	28	25	22	20	18	13
5	64	52	44	38	57	47	40	35	37	32	28	28	24	22	19	17	15	12
6	59	47	39	33	52	42	35	30	33	28	24	25	22	19	17	15	13	10
7	54	42	34	29	48	38	31	26	30	25	21	23	19	16	16	14	12	9
8	50	38	30	25	45	34	28	23	27	22	19	21	17	15	15	12	10	8
9	46	34	27	22	41	31	25	20	25	20	17	19	15	13	13	11	9	7
10	43	31	24	20	39	28	22	18	23	18	15	17	14	12	12	10	8	6

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.)