

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-V-835-WSOTG-ITL90232.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.010 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/01/18

[TESTDATE]03/026/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 63.1 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 64.8 WATTS

[_ABSOLUTE]LUMENS]7360

[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	7360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	63.1
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	12301	7920	7009
55	12152	6984	6014
65	11861	6034	5643
75	11032	5639	5158
85	8566	2864	1141

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1171.573	1171.573	1171.573	1171.573	1171.573
2.5	1171.573	1170.558	1169.543	1168.527	1167.512
5.0	1168.527	1165.482	1160.406	1156.345	1155.330
7.5	1162.436	1157.360	1148.223	1142.132	1141.116
10.0	1156.345	1146.192	1135.025	1128.934	1123.857
12.5	1148.223	1130.964	1120.812	1112.690	1106.599
15.0	1138.071	1115.736	1103.553	1096.446	1090.355
17.5	1126.903	1098.477	1086.294	1079.187	1073.096
20.0	1110.659	1078.172	1065.989	1057.868	1052.791
22.5	1093.401	1057.868	1045.685	1037.563	1032.487
25.0	1074.111	1035.533	1023.350	1017.258	1012.182
27.5	1051.776	1011.167	998.984	993.908	990.863
30.0	1029.441	986.802	975.634	971.573	968.528
32.5	1003.045	959.390	950.253	947.208	945.177
35.0	974.619	930.964	923.858	921.827	918.781
37.5	947.208	901.522	896.446	894.416	891.370
40.0	914.720	868.020	867.005	864.974	860.913
42.5	882.233	836.548	837.563	834.517	830.457
45.0	845.685	800.000	806.091	802.030	796.954
47.5	809.137	765.482	772.589	766.497	761.421
50.0	771.573	729.949	737.056	729.949	721.827
52.5	731.979	693.401	701.523	690.355	682.233
55.0	690.355	655.837	663.959	651.776	654.822
57.5	647.715	617.259	625.380	623.350	631.472
60.0	603.045	577.665	584.771	600.000	610.152
62.5	557.360	537.056	545.177	577.665	588.832
65.0	511.675	496.447	515.736	555.330	568.528
67.5	463.959	454.822	489.340	534.010	546.193
70.0	414.213	412.183	463.959	510.660	522.842
72.5	364.467	368.528	439.594	485.279	495.431
75.0	310.660	329.949	413.198	454.822	461.929
77.5	261.929	300.507	383.756	414.213	416.243
80.0	209.137	272.081	345.178	355.330	348.223
82.5	157.360	242.639	284.264	255.837	235.533
85.0	105.584	202.030	168.528	111.675	86.294
87.5	54.822	101.523	75.127	62.944	52.792
90.0	12.183	67.005	59.898	49.746	39.594
92.5	21.320	64.751	55.279	46.589	37.909
95.0	35.533	102.660	120.030	64.751	49.746
97.5	56.071	146.091	250.325	128.721	95.553
100.0	79.756	180.832	443.797	240.853	164.254
102.5	105.025	212.426	585.939	450.111	295.340
105.0	130.294	240.061	634.903	787.309	551.979
107.5	156.355	264.538	639.634	1081.066	931.025
110.0	181.624	288.233	636.477	1225.573	1195.573
112.5	207.685	311.137	638.853	1277.695	1341.654
115.0	235.320	334.822	643.583	1272.172	1397.725
117.5	266.122	359.299	651.482	1243.736	1403.258
120.0	291.391	382.203	660.172	1206.629	1383.512
122.5	312.711	401.157	666.487	1169.512	1347.979
125.0	332.457	418.528	670.436	1130.030	1305.329
127.5	351.401	432.741	671.228	1088.172	1257.167
130.0	368.782	446.162	672.802	1045.533	1204.253
132.5	382.995	458.010	672.802	1006.050	1150.558

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-WSOTG-ITL90232.010.IES****CANDELA TABULATION - (Cont.)**

135.0	397.208	469.066	672.802	968.934	1097.654
137.5	411.421	479.330	668.853	932.609	1047.106
140.0	425.634	488.812	663.330	895.492	997.360
142.5	441.431	499.076	658.589	859.167	949.187
145.0	455.644	508.548	651.482	823.634	900.233
147.5	468.274	514.873	642.792	790.467	856.010
150.0	482.487	523.553	634.903	759.665	813.370
152.5	495.127	529.868	627.797	730.446	773.878
155.0	507.766	534.609	619.106	702.812	737.553
157.5	518.812	541.716	608.842	675.959	705.177
160.0	528.294	546.457	600.944	652.274	675.177
162.5	538.558	550.406	594.629	632.528	649.898
165.0	546.457	555.147	588.304	614.365	627.797
167.5	553.563	559.086	581.198	600.152	609.634
170.0	559.086	563.035	575.675	588.304	594.629
172.5	563.035	566.193	573.309	579.624	583.573
175.0	566.193	567.776	570.934	574.091	574.883
177.5	567.776	568.568	569.360	570.142	570.142
180.0	568.568	568.568	568.568	568.568	568.568

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-WSOTG-ITL90232.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	422.76	N.A.	5.70
0-30	897.65	N.A.	12.20
0-40	1480.38	N.A.	20.10
0-60	2696.39	N.A.	36.60
0-80	3634.83	N.A.	49.40
0-90	3810.21	N.A.	51.80
10-90	3700.14	N.A.	50.30
20-40	1057.62	N.A.	14.40
20-50	1680.57	N.A.	22.80
40-70	1738.56	N.A.	23.60
60-80	938.44	N.A.	12.80
70-80	415.88	N.A.	5.70
80-90	175.38	N.A.	2.40
90-110	637.22	N.A.	8.70
90-120	1388.88	N.A.	18.90
90-130	2068.8	N.A.	28.10
90-150	3041.02	N.A.	41.30
90-180	3550.07	N.A.	48.20
110-180	2912.84	N.A.	39.60
0-180	7360.28	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.07
10-20	312.69
20-30	474.89
30-40	582.73
40-50	622.95
50-60	593.05
60-70	522.56
70-80	415.88
80-90	175.38
90-100	117.17
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

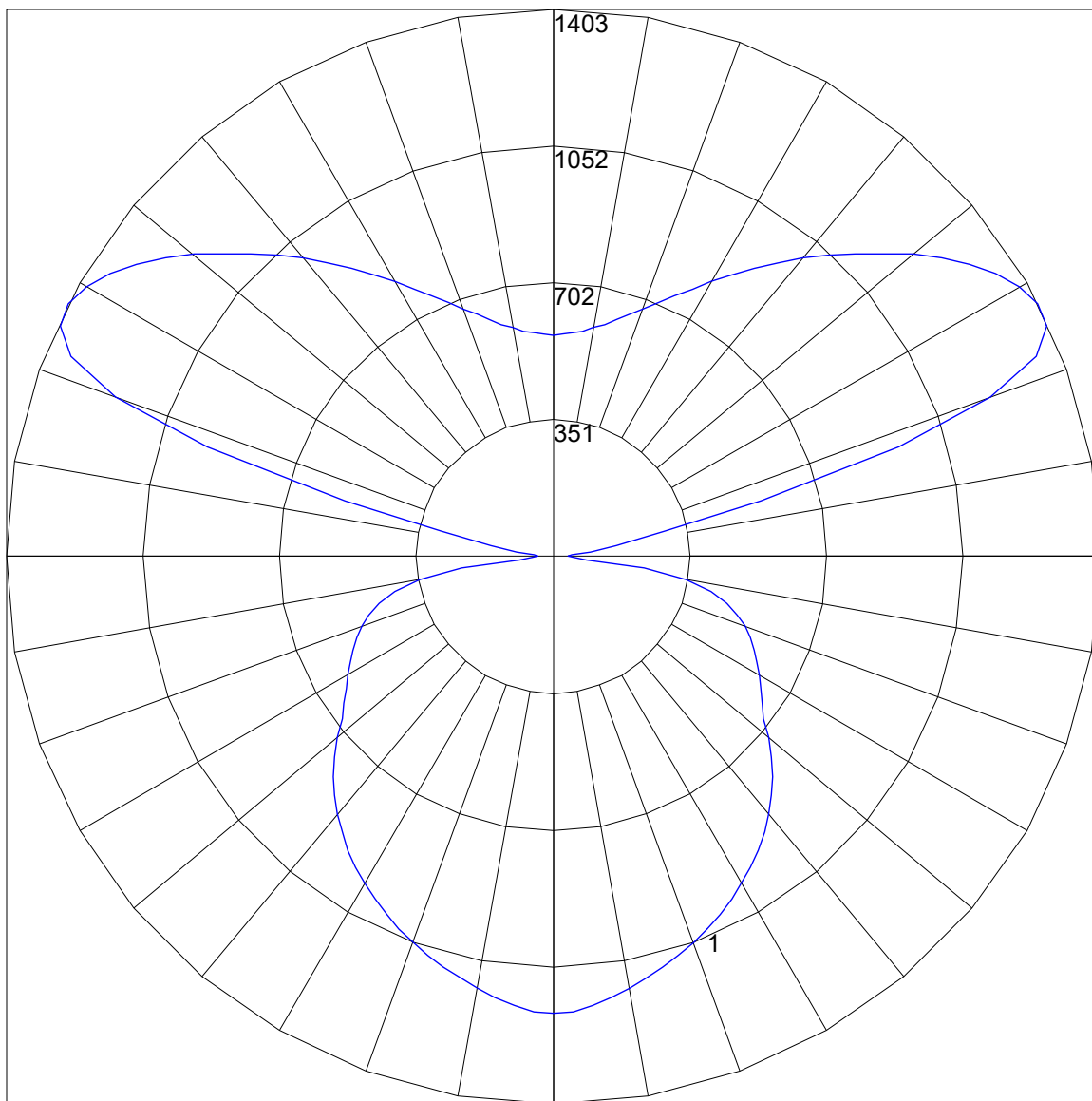
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	97	92	88	84	89	85	82	78	72	69	67	60	58	56	49	48	47	41
2	88	80	73	67	81	74	68	63	62	58	54	52	49	46	42	40	38	33
3	80	70	62	55	73	64	57	52	55	49	45	46	42	38	37	34	32	28
4	73	61	53	46	67	57	49	44	48	42	38	40	36	32	33	30	27	23
5	67	54	46	40	61	50	43	37	43	37	32	36	31	28	29	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	57	44	36	30	52	41	33	28	35	29	25	29	25	21	24	21	18	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	22	19	16	13
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	20	17	14	12
10	46	33	26	21	42	31	24	20	27	21	17	23	18	15	19	15	13	11

POLAR GRAPH



Maximum Candela = 1403.258 Located At Horizontal Angle = 90, Vertical Angle = 117.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)