

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-S-H-835-WSOTG-ITL90232.015.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90232.015 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-S-H-835-WSOTG

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.7 WATTS

[_ABSOLUTE]LUMENS]4834

[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	4834
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	152
Total Luminaire Watts	31.7
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	1.32
Spacing Criterion (90-270)	1.24
Spacing Criterion (Diagonal)	1.40
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	11.218	34.081	29.086	24.518	19.949
95.0	18.701	54.020	63.167	34.081	26.183
97.5	29.503	76.883	131.736	67.736	50.284
100.0	41.970	95.167	233.553	126.751	86.437
102.5	55.269	111.787	308.355	236.873	155.421
105.0	68.569	126.335	334.122	414.325	290.487
107.5	82.284	139.218	336.619	568.924	489.959
110.0	95.584	151.685	334.954	644.974	629.177
112.5	109.299	163.736	336.203	672.396	706.061
115.0	123.838	176.203	338.690	669.492	735.563
117.5	140.051	189.086	342.853	654.528	738.477
120.0	153.350	201.137	347.421	634.995	728.091
122.5	164.568	211.117	350.741	615.462	709.391
125.0	174.954	220.254	352.822	594.690	686.944
127.5	184.934	227.736	353.238	572.660	661.594
130.0	194.071	234.802	354.071	550.223	633.756
132.5	201.553	241.035	354.071	529.441	605.492

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-S-H-835-WSOTG-ITL90232.015.IES****CANDELA TABULATION - (Cont.)**

135.0	209.035	246.853	354.071	509.908	577.644
137.5	216.518	252.254	351.990	490.792	551.056
140.0	223.990	257.238	349.086	471.259	524.873
142.5	232.304	262.640	346.589	452.142	499.523
145.0	239.787	267.634	342.853	433.441	473.756
147.5	246.436	270.954	338.274	415.990	450.487
150.0	253.919	275.523	334.122	399.787	428.040
152.5	260.568	278.853	330.386	384.406	407.259
155.0	267.218	281.340	325.807	369.858	388.142
157.5	273.035	285.086	320.406	355.736	371.106
160.0	278.020	287.574	316.254	343.269	355.320
162.5	283.421	289.655	312.924	332.873	342.020
165.0	287.574	292.152	309.604	323.320	330.386
167.5	291.320	294.223	305.858	315.837	320.822
170.0	294.223	296.304	302.954	309.604	312.924
172.5	296.304	297.969	301.705	305.035	307.106
175.0	297.969	298.802	300.457	302.122	302.538
177.5	298.802	299.218	299.624	300.041	300.041
180.0	299.218	299.218	299.218	299.218	299.218

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	328.84	N.A.	6.80
0-30	698.22	N.A.	14.40
0-40	1151.49	N.A.	23.80
0-60	2097.34	N.A.	43.40
0-80	2827.28	N.A.	58.50
0-90	2963.7	N.A.	61.30
10-90	2878.08	N.A.	59.50
20-40	822.65	N.A.	17.00
20-50	1307.2	N.A.	27.00
40-70	1352.31	N.A.	28.00
60-80	729.95	N.A.	15.10
70-80	323.49	N.A.	6.70
80-90	136.42	N.A.	2.80
90-110	337.09	N.A.	7.00
90-120	732.65	N.A.	15.20
90-130	1090.47	N.A.	22.60
90-150	1602.11	N.A.	33.10
90-180	1870.00	N.A.	38.70
110-180	1532.91	N.A.	31.70
0-180	4833.7	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	63.41
100-110	273.68
110-120	395.56
120-130	357.82
130-140	291.34
140-150	220.30
150-160	151.38
160-170	87.75
170-180	28.76

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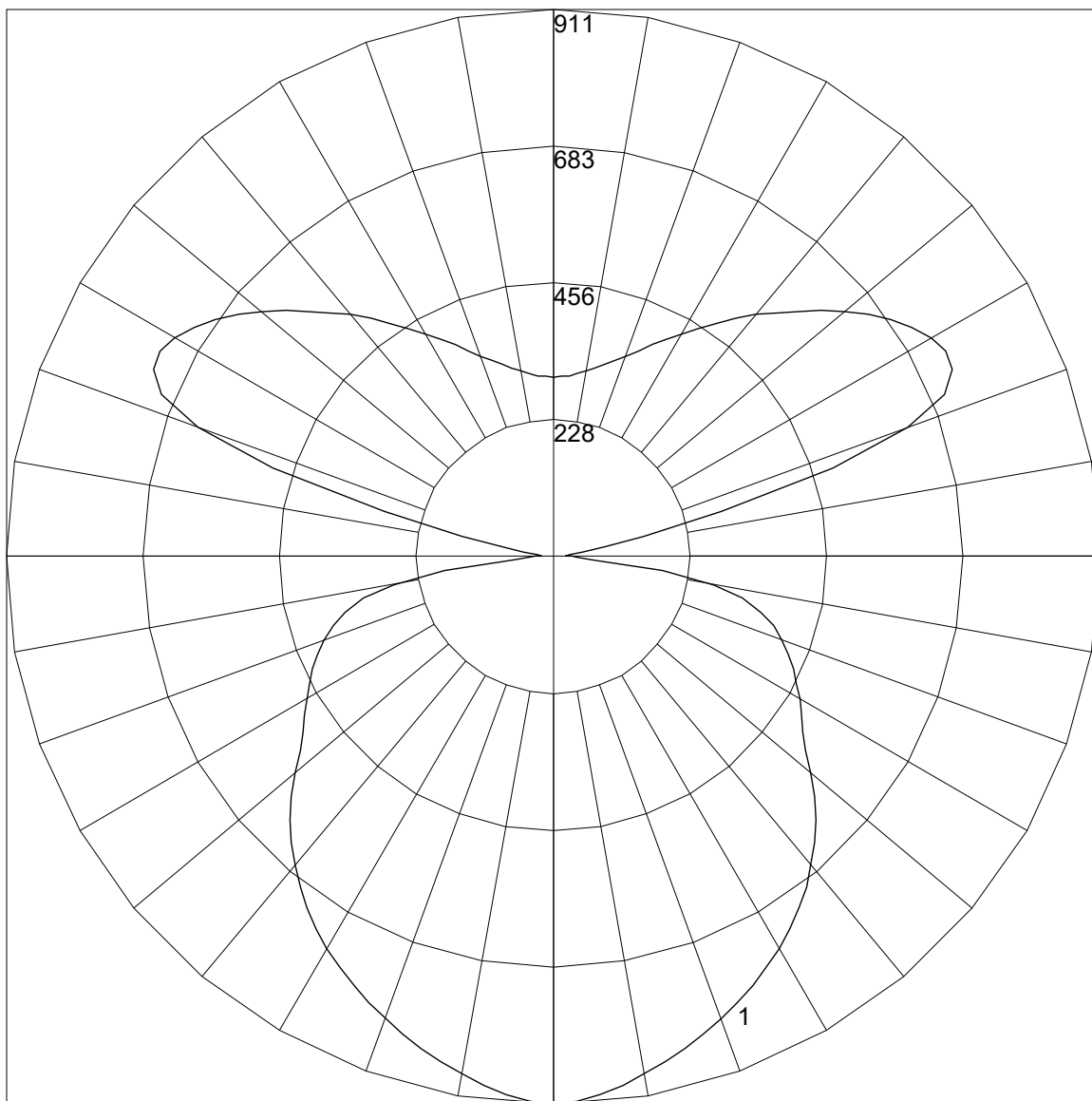
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	61
1	99	94	90	85	92	88	84	80	77	74	71	66	64	62	57	55	54	49
2	89	81	74	68	83	76	70	65	66	61	57	57	54	50	49	46	44	40
3	81	71	63	56	75	66	59	53	58	52	47	50	46	42	43	39	36	33
4	74	62	54	47	69	58	51	45	51	45	40	44	39	35	38	34	31	28
5	68	55	47	40	63	52	44	38	45	39	34	39	34	30	34	30	27	24
6	62	49	41	35	58	46	39	33	41	34	30	36	30	26	31	26	23	20
7	58	45	36	30	54	42	34	29	37	31	26	32	27	23	28	24	21	18
8	53	40	32	27	50	38	31	25	34	27	23	29	24	21	26	21	18	16
9	50	37	29	24	46	35	28	23	31	25	21	27	22	18	24	19	16	14
10	47	34	26	21	43	32	25	20	28	23	19	25	20	17	22	18	15	13

POLAR GRAPH



Maximum Candela = 911.289 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)