

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-TG-ITL90233.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL90233.010 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[ISSUEDATE]03/23/18

[TESTDATE]03/06/18

[MANUFAC]FINELITE, INC.

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

[_INPUT_ELECTRICAL]120.0 VOLTS, 41.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 43.9 WATTS

[_ABSOLUTE]LUMENS]7423

[OTHER]see www.finelite.com for source file ITL90233. 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	7423
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	178
Total Luminaire Watts	41.6
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	12699	8093	7193
55	12503	7155	6194
65	12174	6179	5819
75	11424	5858	5485
85	8883	3211	961

IES INDOOR REPORT
 PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-TG-ITL90233.010.IES

CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	1207.364	1207.364	1207.364	1207.364	1207.364
2.5	1206.395	1205.426	1201.550	1198.643	1198.643
5.0	1204.457	1198.643	1191.860	1187.015	1185.077
7.5	1199.612	1189.922	1180.232	1172.481	1172.481
10.0	1192.829	1177.325	1165.698	1157.946	1156.008
12.5	1184.108	1161.822	1150.194	1141.473	1137.597
15.0	1173.450	1145.349	1133.721	1124.031	1120.155
17.5	1160.853	1126.938	1114.341	1105.620	1100.775
20.0	1146.318	1107.558	1094.961	1085.271	1081.395
22.5	1127.907	1086.240	1073.643	1064.922	1061.046
25.0	1107.558	1062.015	1050.388	1042.636	1039.729
27.5	1085.271	1037.791	1027.132	1019.380	1016.473
30.0	1061.046	1011.628	1000.969	995.155	993.217
32.5	1033.915	983.527	974.806	968.992	967.054
35.0	1005.814	954.457	946.705	942.829	940.891
37.5	977.713	924.419	918.605	915.698	913.760
40.0	943.798	892.442	887.597	885.659	884.690
42.5	908.915	858.527	855.620	854.651	850.775
45.0	873.062	823.643	823.643	821.705	817.829
47.5	834.302	786.822	789.729	784.884	781.008
50.0	793.605	750.000	754.845	749.031	742.248
52.5	752.907	712.209	718.992	710.271	702.519
55.0	710.271	673.450	680.233	668.605	674.419
57.5	664.729	633.721	639.535	641.473	650.194
60.0	619.186	593.023	597.868	617.248	628.876
62.5	574.612	552.326	557.170	594.961	607.558
65.0	525.194	509.690	528.101	572.674	586.240
67.5	476.744	467.054	500.969	551.357	566.860
70.0	426.357	424.419	476.744	531.008	545.543
72.5	374.031	378.876	453.488	508.721	521.318
75.0	321.705	339.147	429.264	482.558	491.279
77.5	268.411	309.109	402.132	446.705	449.612
80.0	215.116	281.977	367.248	391.473	383.721
82.5	161.822	254.845	311.046	294.574	265.504
85.0	109.496	218.023	188.953	108.527	72.674
87.5	61.047	113.372	75.581	59.109	46.512
90.0	31.008	71.705	62.984	49.419	38.760
92.5	42.204	79.133	73.104	64.814	56.524
95.0	72.350	107.772	104.003	95.713	88.177
97.5	101.743	137.164	135.657	128.120	120.584
100.0	131.888	171.078	169.571	162.788	155.252
102.5	167.310	207.253	205.746	199.717	191.427
105.0	205.746	246.443	243.428	238.153	229.109
107.5	246.443	284.879	283.372	276.589	268.299
110.0	288.647	324.069	325.576	318.040	308.996
112.5	333.866	361.751	370.795	360.997	351.200
115.0	379.085	405.463	416.014	404.709	394.912
117.5	425.811	452.943	462.740	450.682	440.131
120.0	474.045	498.915	509.466	496.654	485.349
122.5	523.786	544.888	556.192	544.134	529.815
125.0	573.526	593.121	602.165	592.367	576.541
127.5	624.021	640.601	645.123	640.601	624.774
130.0	674.515	688.834	694.110	688.834	673.008
132.5	726.517	737.822	745.358	737.068	721.995

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-TG-ITL90233.010.IES****CANDELA TABULATION - (Cont.)**

135.0	777.011	785.301	794.345	785.301	770.982
137.5	827.506	834.289	839.564	832.028	819.216
140.0	877.247	880.261	886.290	877.247	865.942
142.5	926.234	926.234	931.509	922.465	912.668
145.0	972.960	970.699	975.221	967.684	958.641
147.5	1016.671	1011.396	1016.671	1011.396	1001.598
150.0	1058.876	1054.354	1059.629	1053.600	1045.310
152.5	1098.819	1091.283	1098.819	1092.036	1082.992
155.0	1135.748	1126.704	1134.994	1128.211	1122.936
157.5	1168.908	1160.618	1166.647	1160.618	1156.850
160.0	1199.808	1190.764	1199.054	1192.271	1189.257
162.5	1226.939	1218.649	1226.186	1219.403	1216.388
165.0	1250.302	1244.273	1248.041	1244.273	1240.505
167.5	1269.897	1266.129	1267.636	1266.129	1263.868
170.0	1286.478	1284.216	1284.970	1284.216	1282.709
172.5	1298.536	1299.289	1297.782	1297.782	1297.782
175.0	1308.333	1308.333	1308.333	1308.333	1307.580
177.5	1314.362	1314.362	1314.362	1313.609	1313.609
180.0	1315.870	1315.870	1315.870	1315.870	1315.870

IES INDOOR REPORT
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-TG-ITL90233.010.IES

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	434.25	N.A.	5.80
0-30	921.95	N.A.	12.40
0-40	1519.6	N.A.	20.50
0-60	2767.61	N.A.	37.30
0-80	3740.51	N.A.	50.40
0-90	3928.43	N.A.	52.90
10-90	3815.29	N.A.	51.40
20-40	1085.34	N.A.	14.60
20-50	1724.39	N.A.	23.20
40-70	1785.58	N.A.	24.10
60-80	972.90	N.A.	13.10
70-80	435.34	N.A.	5.90
80-90	187.92	N.A.	2.50
90-110	359.33	N.A.	4.80
90-120	759.84	N.A.	10.20
90-130	1288.13	N.A.	17.40
90-150	2499.45	N.A.	33.70
90-180	3494.72	N.A.	47.10
110-180	3135.39	N.A.	42.20
0-180	7423.15	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	113.14
10-20	321.11
20-30	487.70
30-40	597.65
40-50	639.04
50-60	608.97
60-70	537.56
70-80	435.34
80-90	187.92
90-100	108.91
100-110	250.42
110-120	400.51
120-130	528.29
130-140	605.09
140-150	606.23
150-160	520.03
160-170	351.12
170-180	124.12

IES INDOOR REPORT

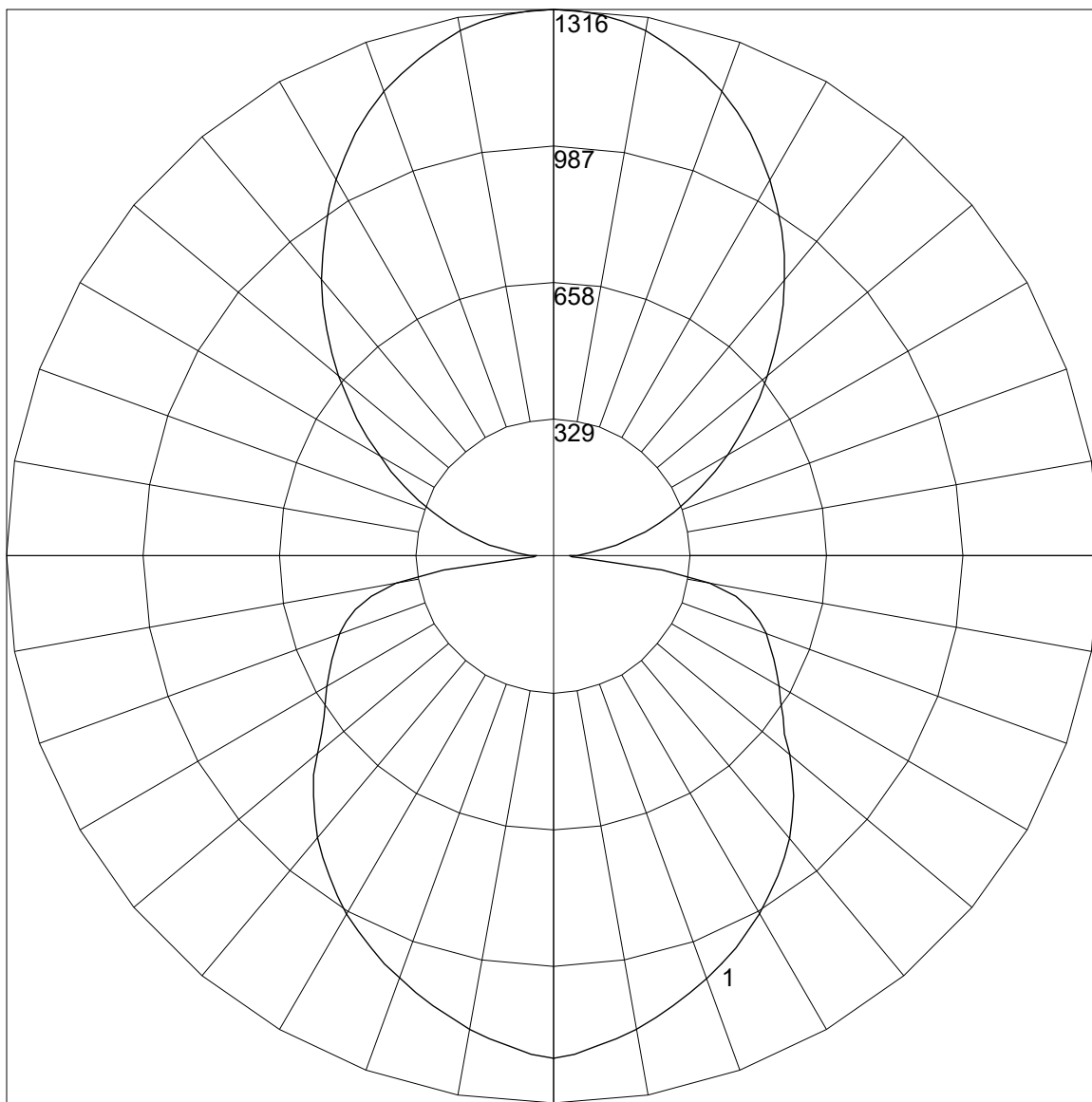
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-H-V-835-TG-ITL90233.010.IES

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	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	97	92	88	84	90	86	82	78	73	70	67	61	59	57	50	49	47	42
2	88	80	73	67	81	74	68	63	63	58	54	53	49	46	43	41	39	34
3	80	70	62	55	73	64	58	52	55	49	45	46	42	39	38	35	32	28
4	73	61	53	46	67	57	49	44	48	43	38	41	36	33	33	30	27	24
5	67	54	46	40	61	51	43	37	43	37	32	36	32	28	30	26	24	20
6	61	49	40	34	56	45	38	32	39	33	28	33	28	24	27	23	21	18
7	57	44	36	30	52	41	33	28	35	29	25	30	25	21	25	21	18	15
8	52	40	32	26	48	37	30	25	32	26	22	27	22	19	23	19	16	14
9	49	36	28	23	45	34	27	22	29	23	19	25	20	17	21	17	14	12
10	46	33	26	21	42	31	24	20	27	21	17	23	18	15	19	16	13	11

POLAR GRAPH



Maximum Candela = 1315.87 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)