

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-S-835-ASY-ITL89988-ITL90233.204.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89988-ITL90233.204 Family Correlation file

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]11/16/17

[ISSUEDATE]03/26/18

[MANUFAC]FINELITE, INC.

[LUMCAT]HO4-ID-RO-4ft-V-S-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 50.0 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 52.3 WATTS

[OTHER]see www.finelite.com for source files ITL89988 AND 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

[_ABSOLUTE LUMENS]6094

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6094
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	122
Total Luminaire Watts	50
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
Luminous Length (0-180)	0.32 ft
Luminous Width (90-270)	4.00 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4343	4097	4068
55	4356	4172	4136
65	4371	4395	4879
75	4372	5834	6677
85	4419	7626	2933

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>
0.0	510.100	510.100	510.100	510.100	510.100	510.100	510.100	510.100	510.100
2.5	509.691	509.281	507.644	506.415	506.415	506.415	507.644	509.281	509.691
5.0	508.872	506.415	503.550	501.912	500.684	501.503	503.550	506.415	508.872
7.5	506.825	502.731	498.637	495.771	495.362	495.362	498.637	502.731	506.825
10.0	503.959	497.818	492.496	489.630	488.402	489.221	492.496	497.818	503.959
12.5	500.275	491.268	485.946	482.671	480.624	482.261	485.946	490.859	500.275
15.0	495.771	484.718	478.986	475.302	473.255	474.892	478.986	483.899	495.771
17.5	490.449	476.939	470.798	467.114	465.067	467.114	470.798	476.121	490.449
20.0	484.308	469.161	462.611	458.926	456.879	458.517	462.611	467.933	484.308
22.5	476.530	460.154	453.604	450.329	448.282	449.920	453.604	458.926	476.530
25.0	467.933	449.920	443.779	440.913	439.276	440.504	443.779	448.691	467.933
27.5	458.517	439.685	433.953	431.088	429.450	430.678	433.953	438.457	458.517
30.0	448.282	429.041	422.900	420.853	419.625	420.443	422.900	427.403	448.282
32.5	436.819	417.168	411.846	409.799	408.571	409.390	411.846	415.531	436.819
35.0	424.947	404.887	399.974	398.337	397.518	398.337	399.974	403.249	424.947
37.5	413.075	392.196	388.102	386.873	386.055	386.873	388.102	390.558	413.075
40.0	398.746	378.686	375.001	374.183	373.773	374.183	375.001	377.048	398.746
42.5	384.008	364.357	361.491	361.082	359.444	361.082	361.491	362.719	384.008
45.0	368.860	349.619	347.981	347.163	345.525	347.163	347.981	347.981	368.860
47.5	352.485	334.062	333.653	332.015	329.968	331.606	333.653	332.425	352.485
50.0	335.290	318.915	318.915	316.459	313.593	316.459	318.915	316.868	335.290
52.5	318.096	302.539	303.767	300.083	296.808	300.083	303.767	300.902	318.096
55.0	300.083	286.164	287.392	282.889	284.935	282.479	287.392	284.526	300.083
57.5	280.842	269.379	270.197	271.426	274.701	271.016	270.197	267.741	280.842
60.0	261.600	251.775	252.594	260.781	265.694	260.781	252.594	250.547	261.600
62.5	242.768	234.581	235.399	250.547	256.688	251.365	235.399	233.352	242.768
65.0	221.889	216.567	223.118	241.131	247.681	241.950	223.118	215.339	221.889
67.5	201.420	198.964	211.655	231.715	239.493	232.943	211.655	197.326	201.420
70.0	180.132	181.360	201.420	223.118	230.487	224.346	201.420	179.313	180.132
72.5	158.024	162.528	191.595	213.702	220.252	214.930	191.595	160.071	158.024
75.0	135.917	145.743	181.360	202.239	207.561	203.876	181.360	143.286	135.917
77.5	113.401	132.642	169.897	187.501	189.957	188.729	169.897	130.595	113.401
80.0	90.885	119.951	155.159	164.165	162.118	165.394	155.159	119.132	90.885
82.5	68.368	106.441	131.414	124.045	112.173	124.455	131.414	107.670	68.368
85.0	46.261	87.609	79.831	47.489	30.704	45.852	79.831	92.113	46.261
87.5	25.792	45.033	31.932	25.382	19.651	24.973	31.932	47.899	25.792
90.0	13.101	28.657	26.610	21.288	16.376	20.879	26.610	30.295	13.101
92.5	67.000	68.000	58.000	61.000	22.000	58.000	91.000	109.000	116.000
95.0	142.000	145.000	146.000	149.000	57.000	92.000	141.000	167.000	175.000
97.5	224.000	239.000	272.000	226.000	93.000	122.000	186.000	224.000	235.000
100.0	347.000	367.000	398.000	300.000	130.000	155.000	223.000	270.000	286.000
102.5	469.000	492.000	520.000	373.000	169.000	188.000	263.000	305.000	321.000
105.0	582.000	627.000	647.000	445.000	207.000	219.000	294.000	344.000	355.000
107.5	717.000	794.000	780.000	511.000	247.000	247.000	324.000	378.000	388.000
110.0	903.000	979.000	907.000	567.000	287.000	275.000	355.000	413.000	423.000
112.5	1129.000	1162.000	1032.000	616.000	328.000	302.000	386.000	447.000	459.000
115.0	1335.000	1341.000	1134.000	661.000	369.000	330.000	414.000	480.000	493.000
117.5	1528.000	1498.000	1206.000	700.000	410.000	359.000	440.000	513.000	527.000
120.0	1683.000	1615.000	1250.000	737.000	455.000	390.000	463.000	542.000	560.000
122.5	1795.000	1692.000	1275.000	775.000	501.000	420.000	485.000	571.000	592.000
125.0	1861.000	1728.000	1288.000	811.000	545.000	449.000	504.000	593.000	620.000
127.5	1884.000	1733.000	1296.000	846.000	590.000	479.000	522.000	611.000	645.000
130.0	1874.000	1718.000	1302.000	883.000	634.000	508.000	539.000	622.000	660.000
132.5	1843.000	1693.000	1309.000	921.000	679.000	537.000	557.000	630.000	665.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-S-835-ASY-ITL89988-ITL90233.204.IES****CANDELA TABULATION - (Cont.)**

135.0	1803.000	1664.000	1318.000	959.000	724.000	571.000	574.000	636.000	667.000
137.5	1762.000	1636.000	1329.000	999.000	770.000	608.000	592.000	642.000	667.000
140.0	1721.000	1610.000	1341.000	1039.000	817.000	648.000	609.000	647.000	667.000
142.5	1685.000	1591.000	1354.000	1079.000	863.000	690.000	626.000	652.000	667.000
145.0	1657.000	1575.000	1367.000	1118.000	909.000	731.000	644.000	659.000	668.000
147.5	1633.000	1563.000	1383.000	1156.000	955.000	773.000	666.000	669.000	673.000
150.0	1614.000	1554.000	1400.000	1192.000	1001.000	818.000	694.000	680.000	681.000
152.5	1597.000	1546.000	1417.000	1225.000	1043.000	866.000	734.000	694.000	690.000
155.0	1581.000	1541.000	1432.000	1254.000	1084.000	917.000	783.000	715.000	706.000
157.5	1572.000	1539.000	1443.000	1280.000	1123.000	969.000	836.000	751.000	732.000
160.0	1565.000	1537.000	1450.000	1302.000	1159.000	1019.000	890.000	807.000	780.000
162.5	1552.000	1530.000	1451.000	1319.000	1192.000	1068.000	946.000	870.000	844.000
165.0	1537.000	1515.000	1446.000	1332.000	1220.000	1113.000	1009.000	933.000	910.000
167.5	1512.000	1494.000	1433.000	1339.000	1244.000	1154.000	1069.000	1001.000	978.000
170.0	1480.000	1466.000	1416.000	1342.000	1265.000	1192.000	1126.000	1077.000	1059.000
172.5	1440.000	1431.000	1392.000	1339.000	1280.000	1225.000	1178.000	1144.000	1132.000
175.0	1401.000	1392.000	1366.000	1332.000	1293.000	1255.000	1225.000	1204.000	1196.000
177.5	1351.000	1347.000	1334.000	1318.000	1299.000	1280.000	1265.000	1254.000	1250.000
180.0	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000	1302.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-S-835-ASY-ITL89988-ITL90233.204.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	183.51	N.A.	3.00
0-30	389.66	N.A.	6.40
0-40	642.29	N.A.	10.50
0-60	1169.95	N.A.	19.20
0-80	1581.16	N.A.	25.90
0-90	1660.29	N.A.	27.20
10-90	1612.48	N.A.	26.50
20-40	458.79	N.A.	7.50
20-50	728.95	N.A.	12.00
40-70	754.84	N.A.	12.40
60-80	411.21	N.A.	6.70
70-80	184.03	N.A.	3.00
80-90	79.13	N.A.	1.30
90-110	580.65	N.A.	9.50
90-120	1272.97	N.A.	20.90
90-130	2069.26	N.A.	34.00
90-150	3453.91	N.A.	56.70
90-180	4434.17	N.A.	72.80
110-180	3853.51	N.A.	63.20
0-180	6094.46	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	47.81
10-20	135.70
20-30	206.15
30-40	252.64
40-50	270.16
50-60	257.49
60-70	227.19
70-80	184.03
80-90	79.13
90-100	148.91
100-110	431.74
110-120	692.31
120-130	796.29
130-140	743.40
140-150	641.26
150-160	512.67
160-170	344.80
170-180	122.79

IES INDOOR REPORT

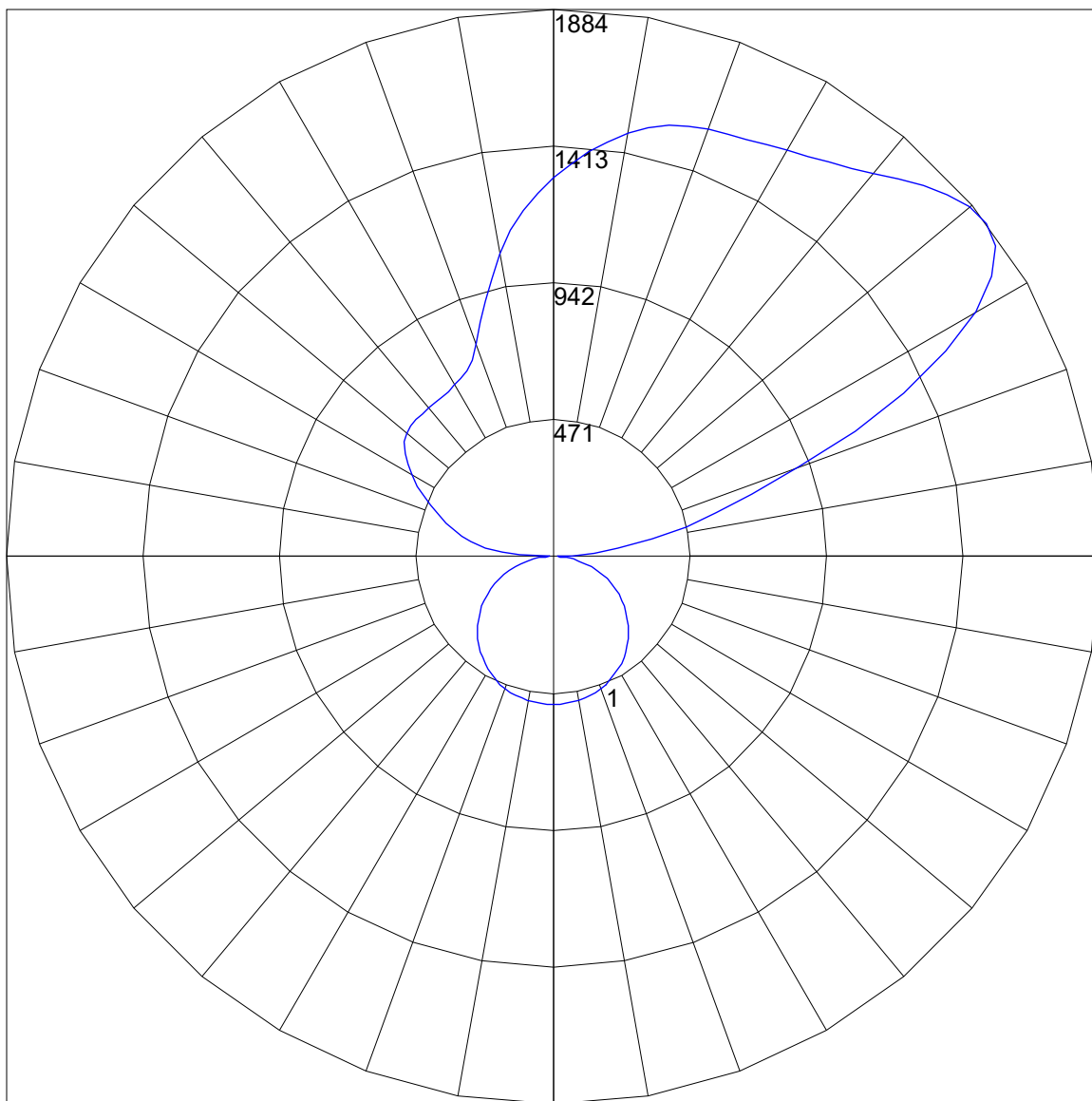
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-S-835-ASY-ITL89988-ITL90233.204.IES

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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35	27
1	92	88	84	80	82	78	75	72	61	59	57	45	43	42	30	29	28	22
2	83	76	70	65	74	68	63	58	53	49	46	39	37	34	26	25	23	18
3	76	66	59	53	67	59	53	48	46	42	38	34	31	29	23	21	19	14
4	69	59	51	45	61	52	46	41	41	36	32	30	27	24	20	18	17	12
5	63	52	44	38	56	47	40	34	36	31	28	27	23	21	18	16	14	10
6	58	46	38	33	52	42	35	30	33	28	24	24	21	18	16	14	12	9
7	54	42	34	28	48	37	31	26	29	24	21	22	18	16	15	13	11	8
8	50	38	30	25	44	34	27	23	27	22	18	20	16	14	14	11	10	7
9	46	34	27	22	41	31	24	20	24	19	16	18	15	12	12	10	9	6
10	43	31	24	19	38	28	22	18	22	18	14	17	13	11	11	9	8	6

POLAR GRAPH



Maximum Candela = 1884 Located At Horizontal Angle = 0, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)