

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-H-835-ASY-ITL89988-ITL90233.206.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL8998-ITL90233.206 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-H-835-ASY

[_INPUT_ELECTRICAL]120.0 VOLTS, 63.4 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 65.1 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]7592

[_CONVERT] Photometric web converted from original test data

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	7592
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	120
Total Luminaire Watts	63.4
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
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	8252	7784	7730
55	8276	7926	7858
65	8305	8351	9271
75	8307	11084	12686
85	8396	14489	5573

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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	969.176	969.176	969.176	969.176	969.176	969.176	969.176	969.176	969.176
2.5	968.398	967.620	964.509	962.176	962.176	962.176	964.509	967.620	968.398
5.0	966.843	962.176	956.731	953.620	951.286	952.842	956.731	962.176	966.843
7.5	962.954	955.175	947.397	941.952	941.174	941.174	947.397	955.175	962.954
10.0	957.509	945.841	935.730	930.285	927.951	929.507	935.730	945.063	957.509
12.5	950.508	933.396	923.284	917.062	913.172	916.284	923.284	932.618	950.508
15.0	941.952	920.951	910.061	903.061	899.172	902.283	910.061	919.395	941.952
17.5	931.840	906.172	894.505	887.504	883.615	887.504	894.505	904.616	931.840
20.0	920.173	891.393	878.948	871.947	868.058	871.170	878.948	889.060	920.173
22.5	905.394	874.281	861.836	855.613	851.724	854.835	861.836	871.947	905.394
25.0	889.060	854.835	843.168	837.723	834.612	836.945	843.168	852.502	889.060
27.5	871.170	835.389	824.500	819.055	815.944	818.277	824.500	833.056	871.170
30.0	851.724	815.166	803.498	799.609	797.276	798.831	803.498	812.054	851.724
32.5	829.945	792.609	782.497	778.608	776.274	777.830	782.497	789.497	829.945
35.0	807.388	769.274	759.940	756.829	755.273	756.829	759.940	766.163	807.388
37.5	784.830	745.161	737.383	735.049	733.494	735.049	737.383	742.050	784.830
40.0	757.606	719.493	712.492	710.937	710.159	710.937	712.492	716.381	757.606
42.5	729.605	692.269	686.824	686.046	682.935	686.046	686.824	689.157	729.605
45.0	700.825	664.267	661.155	659.600	656.489	659.600	661.155	661.155	700.825
47.5	669.712	634.709	633.932	630.820	626.931	630.042	633.932	631.598	669.712
50.0	637.043	605.930	605.930	601.263	595.818	601.263	605.930	602.040	637.043
52.5	604.374	574.816	577.150	570.149	563.927	570.149	577.150	571.705	604.374
55.0	570.149	543.703	546.037	537.481	541.370	536.703	546.037	540.592	570.149
57.5	533.591	511.812	513.368	515.701	521.924	514.923	513.368	508.701	533.591
60.0	497.033	478.365	479.921	495.478	504.812	495.478	479.921	476.032	497.033
62.5	461.253	445.697	447.252	476.032	487.699	477.588	447.252	443.363	461.253
65.0	421.584	411.472	423.917	458.142	470.587	459.697	423.917	409.139	421.584
67.5	382.692	378.025	402.138	440.252	455.031	442.585	402.138	374.914	382.692
70.0	342.245	344.579	382.692	423.917	437.918	426.251	382.692	340.690	342.245
72.5	300.242	308.798	364.024	406.027	418.473	408.361	364.024	304.132	300.242
75.0	258.240	276.908	344.579	384.248	394.360	387.359	344.579	272.240	258.240
77.5	215.459	252.017	322.799	356.246	360.913	358.580	322.799	248.128	215.459
80.0	172.678	227.904	294.798	311.910	308.021	314.243	294.798	226.349	172.678
82.5	129.898	202.236	249.683	235.683	213.125	236.460	249.683	204.569	129.898
85.0	87.895	166.456	151.677	90.228	58.337	87.117	151.677	175.012	87.895
87.5	49.003	85.561	60.671	48.225	37.336	47.448	60.671	91.006	49.003
90.0	24.891	54.448	50.559	40.447	31.113	39.669	50.559	57.559	24.891
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-H-835-ASY-ITL89988-ITL90233.206.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-H-835-ASY-ITL89988-ITL90233.206.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	348.66	N.A.	4.60
0-30	740.33	N.A.	9.80
0-40	1220.34	N.A.	16.10
0-60	2222.87	N.A.	29.30
0-80	3004.16	N.A.	39.60
0-90	3154.51	N.A.	41.60
10-90	3063.68	N.A.	40.40
20-40	871.68	N.A.	11.50
20-50	1384.98	N.A.	18.20
40-70	1434.17	N.A.	18.90
60-80	781.29	N.A.	10.30
70-80	349.64	N.A.	4.60
80-90	150.34	N.A.	2.00
90-110	583.49	N.A.	7.70
90-120	1275.8	N.A.	16.80
90-130	2072.09	N.A.	27.30
90-150	3456.74	N.A.	45.50
90-180	4437.00	N.A.	58.40
110-180	3853.51	N.A.	50.80
0-180	7591.51	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	90.83
10-20	257.83
20-30	391.67
30-40	480.01
40-50	513.30
50-60	489.22
60-70	431.65
70-80	349.64
80-90	150.34
90-100	151.74
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

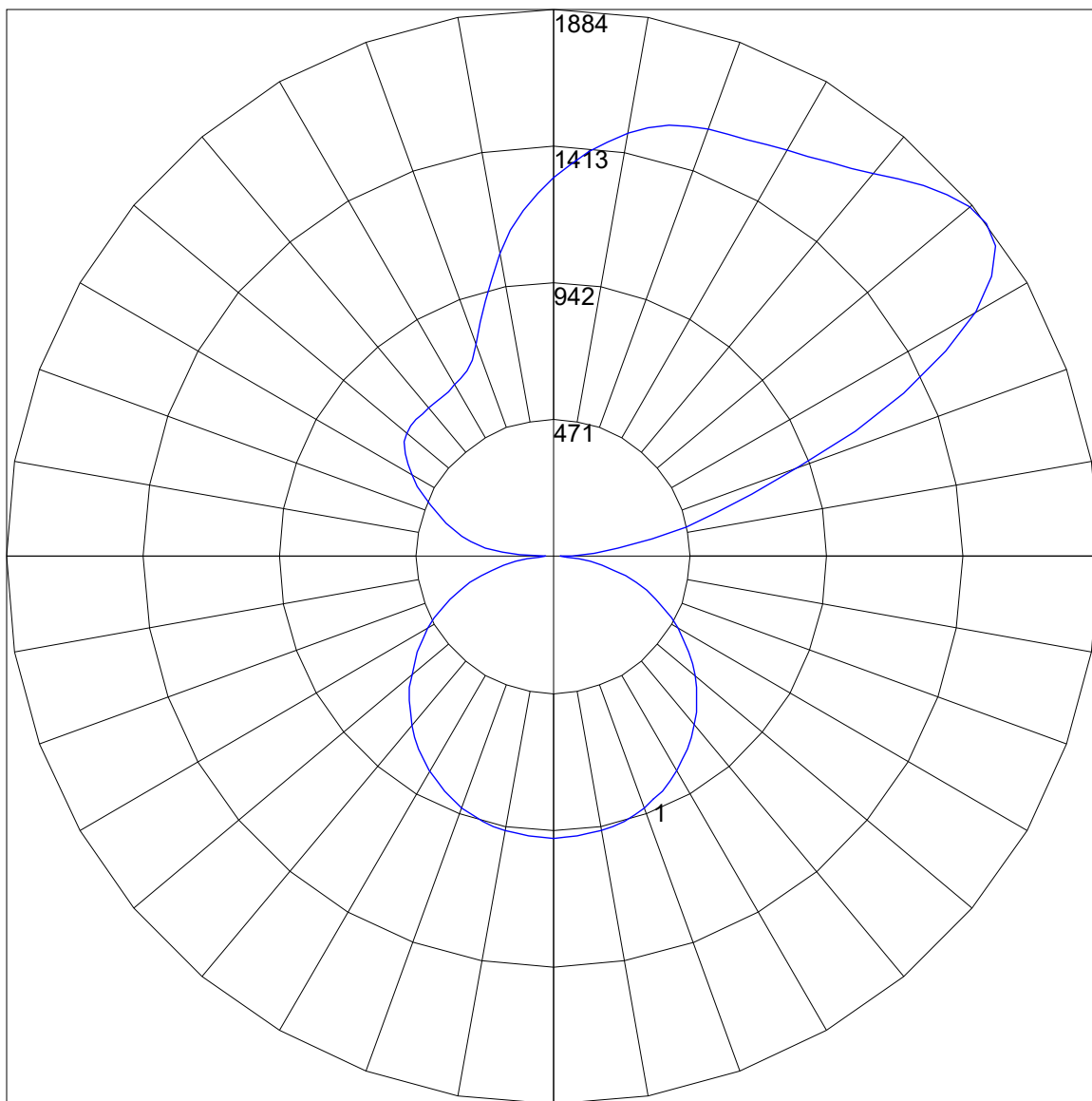
PHOTOMETRIC FILENAME : HO4-ID-RO-4FT-V-H-835-ASY-ITL89988-ITL90233.206.IES

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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	48	48	48	42
1	95	90	86	82	86	82	79	75	67	65	63	54	52	50	41	40	39	33
2	86	78	72	66	78	71	66	61	58	54	51	47	44	41	36	34	32	27
3	78	68	61	54	71	62	56	50	51	46	42	41	37	34	31	29	27	22
4	71	60	52	46	64	55	48	42	45	40	35	36	32	29	28	25	23	19
5	65	53	45	39	59	49	41	36	40	35	30	32	28	25	25	22	19	16
6	60	48	39	33	54	44	36	31	36	30	26	29	25	22	22	19	17	14
7	55	43	35	29	50	39	32	27	33	27	23	26	22	19	20	17	15	12
8	51	39	31	26	46	36	29	24	30	24	20	24	20	17	19	16	13	11
9	48	35	28	23	43	32	26	21	27	22	18	22	18	15	17	14	12	10
10	44	32	25	20	40	30	23	19	25	20	16	20	16	13	16	13	11	9

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.)