

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 : HP-4-ID-4FT-H-V-837-XXIC-WSO-DSO-ITL89033-ITL92993.209.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.209 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]03/27/17
[ISSUEDATE]05/14/2021
[MANUFAC]FINELITE, INC.
[LUMCAT]FINELITE HP-4-ID-4ft-H-V-837-XXIC-WSO-DSO
[_INPUT_ELECTRICAL]120.0 VOLTS, 62.3 WATTS
[_INPUT_ELECTRICAL]277.0 VOLTS, 62.5 WATTS
[OTHER]see www.finelite.com for source files ITL89033 and ITL92993. 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]6611

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6612
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	62.3
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)	4.00 ft
Luminous Width (90-270)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	7742	10183	11103
55	7128	9679	10367
65	6522	8831	9289
75	5863	7688	7868
85	5153	6041	5863

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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>
0.0	1162.500	1162.500	1162.500	1162.500	1162.500
2.5	1159.710	1160.640	1162.500	1163.430	1164.360
5.0	1154.130	1155.990	1161.570	1167.150	1169.010
7.5	1143.900	1149.480	1160.640	1171.800	1175.520
10.0	1131.810	1137.390	1157.850	1179.240	1185.750
12.5	1119.720	1124.370	1155.990	1189.470	1197.840
15.0	1103.910	1119.720	1155.060	1196.910	1207.140
17.5	1069.500	1086.240	1154.130	1199.700	1214.580
20.0	1040.670	1061.130	1152.270	1199.700	1216.440
22.5	1011.840	1036.020	1129.950	1195.980	1215.510
25.0	979.290	1014.630	1113.210	1187.610	1209.000
27.5	940.230	983.940	1095.540	1175.520	1195.980
30.0	903.030	949.530	1074.150	1157.850	1176.450
32.5	863.970	917.910	1053.690	1137.390	1152.270
35.0	824.910	883.500	1019.280	1109.490	1120.650
37.5	783.060	845.370	985.800	1068.570	1083.450
40.0	744.000	806.310	948.600	1025.790	1042.530
42.5	699.360	768.180	908.610	983.010	995.100
45.0	657.510	725.400	864.900	931.860	943.020
47.5	616.590	682.620	820.260	881.640	891.870
50.0	573.810	638.910	771.900	829.560	833.280
52.5	531.030	595.200	718.890	772.830	774.690
55.0	491.040	549.630	666.810	711.450	714.240
57.5	451.050	504.990	612.870	652.860	653.790
60.0	410.130	459.420	558.000	593.340	594.270
62.5	369.210	416.640	502.200	534.750	531.960
65.0	331.080	371.070	448.260	472.440	471.510
67.5	293.880	326.430	394.320	414.780	412.920
70.0	253.890	283.650	341.310	356.190	351.540
72.5	218.550	241.800	289.230	300.390	296.670
75.0	182.280	201.810	239.010	246.450	244.590
77.5	148.800	161.820	190.650	196.230	194.370
80.0	115.320	125.550	145.080	148.800	144.150
82.5	84.630	90.210	102.300	104.160	100.440
85.0	53.940	56.730	63.240	61.380	61.380
87.5	25.110	25.110	26.040	24.180	23.250
90.0	0.000	0.000	0.000	0.000	0.000
92.5	11.573	20.253	21.700	21.700	21.700
95.0	32.549	57.866	59.312	46.293	46.293
97.5	57.142	98.372	151.897	94.755	82.459
100.0	86.075	134.538	240.866	177.937	139.601
102.5	120.795	164.194	355.874	275.585	224.229
105.0	152.621	196.020	444.119	426.036	341.407
107.5	185.170	227.846	484.625	623.502	524.407
110.0	216.273	257.502	504.154	787.696	750.807
112.5	248.099	286.435	527.301	855.688	900.534
115.0	278.478	313.921	566.360	876.665	956.953
117.5	303.071	339.237	597.463	886.791	977.929
120.0	325.494	363.830	617.716	926.574	993.119
122.5	345.024	387.700	630.735	975.759	1040.135
125.0	363.830	408.676	640.139	1002.522	1095.107
127.5	381.190	427.482	647.372	1003.246	1124.040
130.0	395.656	444.119	653.158	985.886	1118.977
132.5	410.846	460.032	658.222	962.016	1092.214

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-837-XXIC-WSO-DSO-ITL89033-ITL92993.209.IES****CANDELA TABULATION - (Cont.)**

135.0	425.312	474.498	661.838	935.977	1057.495
137.5	439.056	487.518	663.285	907.767	1017.712
140.0	453.522	499.814	664.008	879.558	975.759
142.5	467.988	511.388	663.285	849.902	933.807
145.0	483.178	522.961	659.668	822.415	892.578
147.5	495.475	532.364	654.605	794.929	852.795
150.0	508.494	541.767	649.542	768.166	816.629
152.5	521.514	549.724	643.755	742.127	783.356
155.0	533.087	557.680	637.969	717.534	750.083
157.5	543.937	564.190	630.735	695.111	720.427
160.0	554.064	570.700	624.949	674.858	693.664
162.5	562.743	575.763	617.716	656.052	670.518
165.0	571.423	580.103	611.206	639.415	650.265
167.5	577.933	583.720	605.419	624.949	632.905
170.0	582.996	587.336	601.079	613.376	617.716
172.5	586.613	589.506	597.463	603.973	606.866
175.0	590.230	590.953	593.846	596.739	598.909
177.5	591.676	591.676	592.399	593.123	593.123
180.0	592.399	592.399	592.399	592.399	592.399

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-V-837-XXIC-WSO-DSO-ITL89033-ITL92993.209.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	436.88	N.A.	6.60
0-30	944.68	N.A.	14.30
0-40	1566.57	N.A.	23.70
0-60	2773.07	N.A.	41.90
0-80	3431.74	N.A.	51.90
0-90	3499.9	N.A.	52.90
10-90	3389.12	N.A.	51.30
20-40	1129.69	N.A.	17.10
20-50	1770.41	N.A.	26.80
40-70	1626.09	N.A.	24.60
60-80	658.67	N.A.	10.00
70-80	239.07	N.A.	3.60
80-90	68.16	N.A.	1.00
90-110	420.60	N.A.	6.40
90-120	1001.9	N.A.	15.20
90-130	1618.23	N.A.	24.50
90-150	2585.16	N.A.	39.10
90-180	3111.79	N.A.	47.10
110-180	2691.19	N.A.	40.70
0-180	6611.69	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	110.78
10-20	326.10
20-30	507.79
30-40	621.90
40-50	640.72
50-60	565.78
60-70	419.60
70-80	239.07
80-90	68.16
90-100	70.09
100-110	350.51
110-120	581.30
120-130	616.33
130-140	543.87
140-150	423.06
150-160	296.19
160-170	173.52
170-180	56.92

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

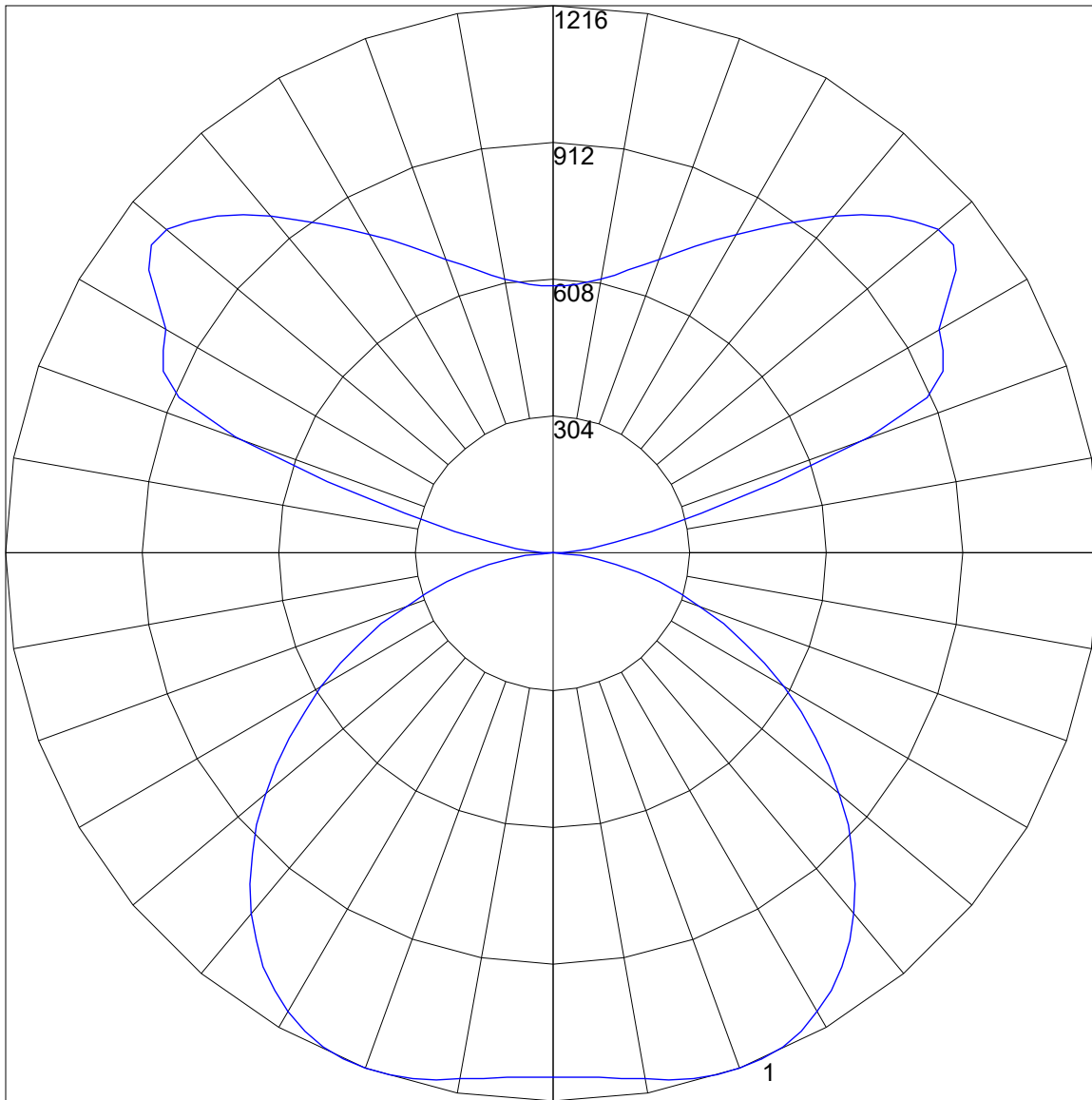
Effective Floor Cavity Reflectance 0.20

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	100	100	100	100	85	85	85	71	71	71	59	59	59	53
1	98	94	90	86	91	87	84	81	74	72	70	63	61	59	52	51	49	44
2	89	82	76	70	82	76	70	66	65	61	57	55	52	49	45	43	41	37
3	81	72	64	58	75	67	60	55	57	52	48	48	45	41	40	37	35	31
4	74	63	55	49	69	59	52	46	51	45	41	43	39	35	36	33	30	26
5	68	56	48	42	63	53	45	40	45	39	35	38	34	30	32	29	26	23
6	63	51	42	36	58	47	40	34	41	35	30	35	30	27	29	26	23	20
7	58	46	37	32	54	43	35	30	37	31	27	31	27	23	26	23	20	18
8	54	41	33	28	50	39	32	27	34	28	24	29	24	21	24	21	18	16
9	50	38	30	25	46	35	28	24	31	25	21	26	22	19	22	19	16	14
10	47	35	27	22	43	32	26	21	28	23	19	24	20	17	21	17	15	13

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POLAR GRAPH



Maximum Candela = 1216.44 Located At Horizontal Angle = 90, Vertical Angle = 20
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)