

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-2-ID-4FT-V-H-835-F-MLW-ITL85132-ITL92590.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/03/23

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-V-H-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 64.0 WATTS

[ABSOLUTE]LUMENS]6287

[OTHER]see www.finelite.com for source files ITL85132 and ITL92590. 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	6291
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	98
Total Luminaire Watts	64
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)	4.00 ft
Luminous Width (90-270)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	3157	3040	3107
55	2656	2491	2471
65	2264	2096	2012
75	1962	1780	1643
85	1626	1491	1220

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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	6213.993	6213.993	6213.993	6213.993	6213.993
2.5	6102.751	6107.418	6100.417	6104.307	6098.083
5.0	5810.254	5803.253	5807.921	5800.919	5803.253
7.5	5319.390	5324.057	5383.179	5376.177	5390.180
10.0	4605.263	4675.275	4830.081	4895.425	4890.758
12.5	3809.455	3916.807	4202.302	4372.666	4343.883
15.0	3087.549	3178.565	3544.963	3796.230	3739.442
17.5	2387.424	2532.117	2913.295	3103.107	2975.529
20.0	1702.080	1891.892	2331.414	2424.764	2364.087
22.5	1125.644	1323.235	1750.311	1881.779	1804.765
25.0	754.578	876.711	1261.780	1341.905	1191.767
27.5	525.871	593.550	878.267	868.154	760.024
30.0	376.511	425.520	570.990	552.320	506.423
32.5	270.715	311.166	371.844	379.623	362.509
35.0	214.705	233.375	273.826	284.717	264.491
37.5	191.367	194.479	217.816	219.372	204.592
40.0	175.031	175.031	181.254	179.699	175.809
42.5	161.029	160.251	157.139	158.695	158.695
45.0	147.026	146.248	141.581	143.915	144.692
47.5	133.802	133.024	129.134	129.912	130.690
50.0	122.133	121.355	116.687	117.465	117.465
52.5	110.464	109.686	105.019	105.019	105.019
55.0	100.351	98.795	94.128	93.350	93.350
57.5	90.238	88.682	84.793	83.237	83.237
60.0	80.125	79.347	75.458	73.902	73.902
62.5	71.568	70.790	66.901	65.345	63.789
65.0	63.011	61.455	58.344	56.788	56.010
67.5	54.454	53.676	51.343	49.009	48.231
70.0	47.453	46.675	43.563	42.008	40.452
72.5	40.452	39.674	37.340	35.006	34.228
75.0	33.450	32.672	30.339	28.783	28.005
77.5	26.449	26.449	24.115	22.560	21.782
80.0	19.448	20.226	18.670	17.114	16.336
82.5	14.002	14.002	13.225	12.447	11.669
85.0	9.335	8.557	8.557	7.779	7.001
87.5	3.890	3.890	3.890	3.890	3.112
90.0	0.000	0.000	0.000	0.000	0.000
92.5	30.000	30.000	30.000	33.000	33.000
95.0	71.000	68.000	68.000	69.000	70.000
97.5	112.000	109.000	107.000	108.000	108.000
100.0	154.000	149.000	149.000	149.000	148.000
102.5	198.000	194.000	192.000	191.000	191.000
105.0	244.000	241.000	236.000	235.000	234.000
107.5	291.000	288.000	282.000	281.000	280.000
110.0	340.000	337.000	332.000	330.000	327.000
112.5	391.000	386.000	383.000	378.000	375.000
115.0	442.000	439.000	437.000	427.000	425.000
117.5	496.000	491.000	491.000	479.000	477.000
120.0	551.000	543.000	545.000	533.000	529.000
122.5	603.000	595.000	599.000	589.000	582.000
125.0	661.000	649.000	653.000	643.000	638.000
127.5	718.000	705.000	707.000	699.000	697.000
130.0	774.000	761.000	763.000	753.000	754.000
132.5	830.000	816.000	819.000	809.000	809.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-F-MLW-ITL85132-ITL92590.004.IES****CANDELA TABULATION - (Cont.)**

135.0	884.000	871.000	875.000	866.000	866.000
137.5	939.000	926.000	930.000	922.000	921.000
140.0	994.000	981.000	984.000	979.000	976.000
142.5	1046.000	1032.000	1036.000	1031.000	1027.000
145.0	1099.000	1084.000	1088.000	1084.000	1077.000
147.5	1148.000	1133.000	1138.000	1132.000	1125.000
150.0	1195.000	1180.000	1186.000	1179.000	1173.000
152.5	1240.000	1225.000	1231.000	1225.000	1219.000
155.0	1283.000	1268.000	1275.000	1269.000	1263.000
157.5	1320.000	1306.000	1314.000	1308.000	1302.000
160.0	1356.000	1343.000	1350.000	1344.000	1338.000
162.5	1387.000	1376.000	1381.000	1377.000	1373.000
165.0	1415.000	1405.000	1408.000	1406.000	1403.000
167.5	1436.000	1430.000	1432.000	1430.000	1429.000
170.0	1455.000	1452.000	1453.000	1451.000	1450.000
172.5	1471.000	1470.000	1470.000	1469.000	1469.000
175.0	1482.000	1482.000	1482.000	1482.000	1481.000
177.5	1488.000	1489.000	1489.000	1489.000	1488.000
180.0	1492.000	1492.000	1492.000	1492.000	1492.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-F-MLW-ITL85132-ITL92590.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1469.55	N.A.	23.40
0-30	2001.85	N.A.	31.80
0-40	2178.41	N.A.	34.60
0-60	2376.88	N.A.	37.80
0-80	2468.38	N.A.	39.20
0-90	2477.74	N.A.	39.40
10-90	1956.00	N.A.	31.10
20-40	708.86	N.A.	11.30
20-50	821.09	N.A.	13.10
40-70	257.40	N.A.	4.10
60-80	91.50	N.A.	1.50
70-80	32.57	N.A.	0.50
80-90	9.37	N.A.	0.10
90-110	329.21	N.A.	5.20
90-120	759.73	N.A.	12.10
90-130	1340.41	N.A.	21.30
90-150	2691.63	N.A.	42.80
90-180	3813.36	N.A.	60.60
110-180	3484.15	N.A.	55.40
0-180	6291.11	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	521.74
10-20	947.80
20-30	532.30
30-40	176.56
40-50	112.23
50-60	86.24
60-70	58.93
70-80	32.57
80-90	9.37
90-100	77.06
100-110	252.15
110-120	430.52
120-130	580.67
130-140	672.56
140-150	678.67
150-160	584.78
160-170	396.44
170-180	140.51

IES INDOOR REPORT

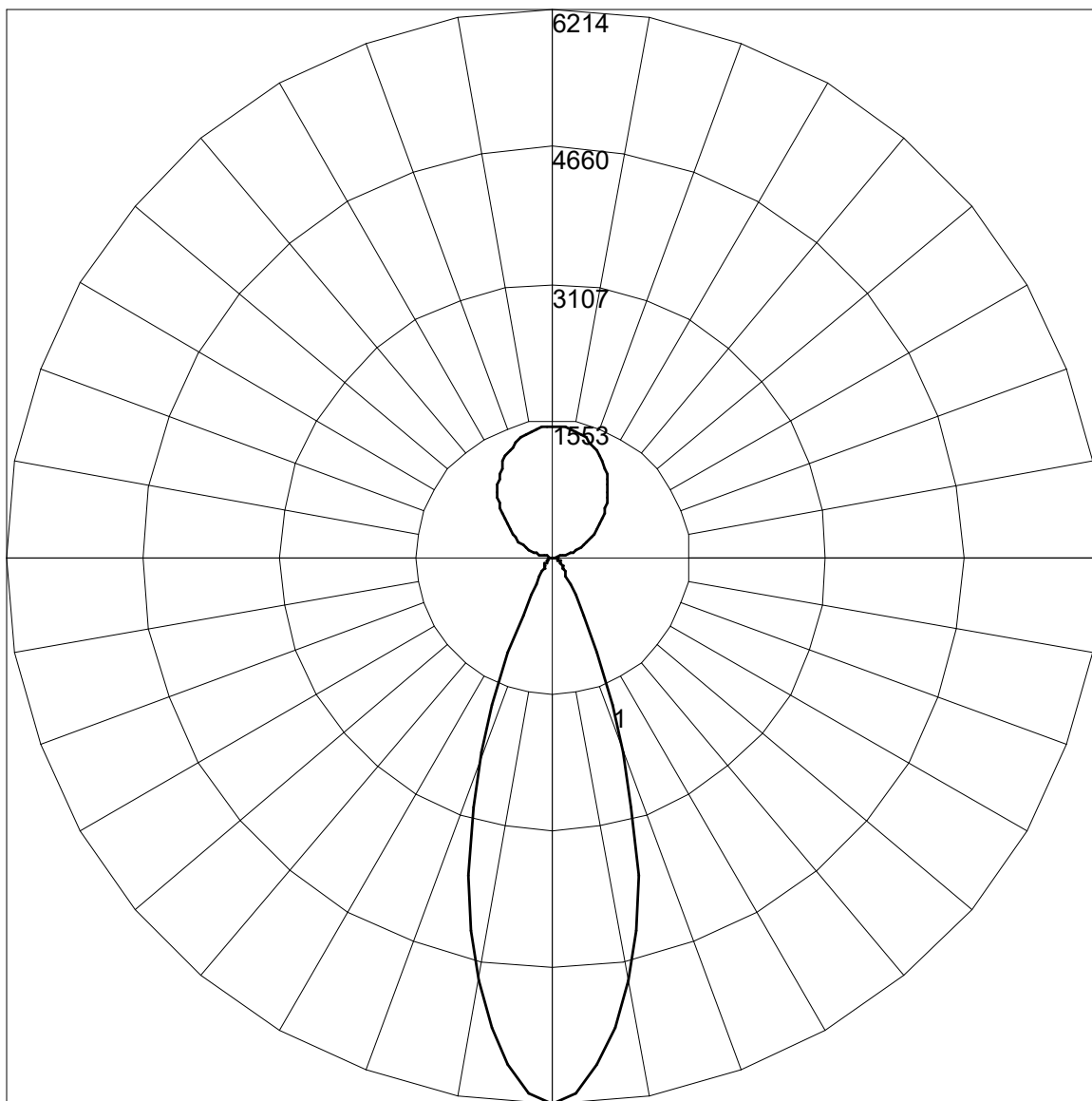
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	97	94	91	88	89	86	83	81	70	69	67	57	56	55	44	43	43	37
2	90	84	80	75	82	77	73	70	64	62	59	52	51	49	41	40	39	35
3	84	77	71	66	77	71	66	62	59	56	53	49	47	45	39	38	37	32
4	79	70	63	59	72	65	59	55	55	51	48	46	43	41	37	36	34	31
5	74	64	58	53	67	60	54	50	51	47	44	43	40	38	35	34	32	29
6	69	59	53	48	63	55	49	45	47	43	40	40	38	35	34	32	31	28
7	65	55	48	44	60	51	46	42	45	40	37	38	35	33	32	30	29	26
8	61	51	45	40	57	48	42	39	42	38	35	36	33	31	31	29	28	25
9	58	48	42	37	54	45	40	36	40	35	33	34	32	29	30	28	26	24
10	55	45	39	35	51	42	37	34	37	33	31	33	30	28	28	27	25	23

POLAR GRAPH



Maximum Candela = 6213.993 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)