

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-B-S-835-F-MLW-ITL85132-ITL92590.012.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.012 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]02/03/23

[MANUFAC]FINELITE, INC.

[LUMCAT]HP-2-ID-4ft-B-S-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 32.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 34.4 WATTS

[ABSOLUTE]LUMENS]3264

[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	3266
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	101
Total Luminaire Watts	32.4
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	1661	1600	1635
55	1398	1311	1300
65	1191	1103	1059
75	1032	936	864
85	856	784	642

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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	3269.736	3269.736	3269.736	3269.736	3269.736
2.5	3211.202	3213.658	3209.974	3212.020	3208.746
5.0	3057.293	3053.609	3056.065	3052.381	3053.609
7.5	2799.005	2801.461	2832.571	2828.887	2836.254
10.0	2423.240	2460.079	2541.536	2575.920	2573.464
12.5	2004.494	2060.982	2211.206	2300.850	2285.704
15.0	1624.635	1672.526	1865.321	1997.535	1967.654
17.5	1256.237	1332.372	1532.945	1632.821	1565.691
20.0	895.616	995.493	1226.765	1275.885	1243.957
22.5	592.302	696.272	920.995	990.172	949.648
25.0	397.051	461.316	663.935	706.096	627.095
27.5	276.708	312.320	462.135	456.813	399.916
30.0	198.116	223.904	300.449	290.625	266.474
32.5	142.447	163.732	195.660	199.754	190.748
35.0	112.975	122.799	144.084	149.815	139.173
37.5	100.695	102.333	114.613	115.431	107.654
40.0	92.100	92.100	95.374	94.555	92.509
42.5	84.731	84.322	82.685	83.504	83.504
45.0	77.364	76.954	74.498	75.726	76.136
47.5	70.405	69.996	67.949	68.358	68.768
50.0	64.265	63.856	61.400	61.809	61.809
52.5	58.125	57.716	55.260	55.260	55.260
55.0	52.804	51.985	49.529	49.120	49.120
57.5	47.482	46.664	44.617	43.798	43.798
60.0	42.161	41.752	39.705	38.886	38.886
62.5	37.658	37.249	35.203	34.384	33.565
65.0	33.156	32.337	30.700	29.881	29.472
67.5	28.653	28.244	27.016	25.788	25.378
70.0	24.969	24.560	22.922	22.104	21.285
72.5	21.285	20.876	19.648	18.420	18.011
75.0	17.601	17.192	15.964	15.145	14.736
77.5	13.917	13.917	12.689	11.871	11.461
80.0	10.233	10.643	9.824	9.005	8.596
82.5	7.368	7.368	6.959	6.549	6.140
85.0	4.912	4.503	4.503	4.093	3.684
87.5	2.047	2.047	2.047	2.047	1.637
90.0	0.000	0.000	0.000	0.000	0.000
92.5	15.439	15.439	15.439	16.983	16.983
95.0	36.538	34.994	34.994	35.509	36.023
97.5	57.637	56.094	55.064	55.579	55.579
100.0	79.251	76.678	76.678	76.678	76.164
102.5	101.895	99.836	98.807	98.292	98.292
105.0	125.567	124.023	121.450	120.936	120.421
107.5	149.754	148.210	145.123	144.608	144.094
110.0	174.971	173.427	170.854	169.825	168.281
112.5	201.216	198.643	197.099	194.526	192.982
115.0	227.462	225.918	224.889	219.743	218.714
117.5	255.251	252.678	252.678	246.503	245.474
120.0	283.555	279.439	280.468	274.292	272.234
122.5	310.316	306.199	308.257	303.111	299.509
125.0	340.164	333.988	336.047	330.901	328.327
127.5	369.497	362.807	363.836	359.719	358.690
130.0	398.316	391.626	392.655	387.509	388.023
132.5	427.135	419.930	421.474	416.327	416.327

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-F-MLW-ITL85132-ITL92590.012.IES****CANDELA TABULATION - (Cont.)**

135.0	454.924	448.234	450.292	445.661	445.661
137.5	483.228	476.538	478.596	474.479	473.965
140.0	511.532	504.842	506.386	503.813	502.269
142.5	538.292	531.088	533.146	530.573	528.515
145.0	565.567	557.848	559.906	557.848	554.246
147.5	590.784	583.064	585.638	582.550	578.947
150.0	614.971	607.251	610.339	606.737	603.649
152.5	638.129	630.409	633.497	630.409	627.322
155.0	660.257	652.538	656.140	653.053	649.965
157.5	679.298	672.094	676.211	673.123	670.035
160.0	697.825	691.135	694.737	691.649	688.561
162.5	713.778	708.117	710.690	708.632	706.573
165.0	728.187	723.041	724.585	723.556	722.012
167.5	738.994	735.906	736.936	735.906	735.392
170.0	748.772	747.228	747.743	746.713	746.199
172.5	757.006	756.491	756.491	755.977	755.977
175.0	762.667	762.667	762.667	762.667	762.152
177.5	765.754	766.269	766.269	766.269	765.754
180.0	767.813	767.813	767.813	767.813	767.813

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-F-MLW-ITL85132-ITL92590.012.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	773.26	N.A.	23.70
0-30	1053.35	N.A.	32.30
0-40	1146.25	N.A.	35.10
0-60	1250.69	N.A.	38.30
0-80	1298.83	N.A.	39.80
0-90	1303.76	N.A.	39.90
10-90	1029.23	N.A.	31.50
20-40	372.99	N.A.	11.40
20-50	432.05	N.A.	13.20
40-70	135.44	N.A.	4.10
60-80	48.15	N.A.	1.50
70-80	17.14	N.A.	0.50
80-90	4.93	N.A.	0.20
90-110	169.42	N.A.	5.20
90-120	390.97	N.A.	12.00
90-130	689.80	N.A.	21.10
90-150	1385.17	N.A.	42.40
90-180	1962.43	N.A.	60.10
110-180	1793.01	N.A.	54.90
0-180	3266.19	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	274.54
10-20	498.72
20-30	280.09
30-40	92.90
40-50	59.05
50-60	45.38
60-70	31.01
70-80	17.14
80-90	4.93
90-100	39.66
100-110	129.76
110-120	221.56
120-130	298.83
130-140	346.11
140-150	349.26
150-160	300.94
160-170	204.02
170-180	72.31

IES INDOOR REPORT

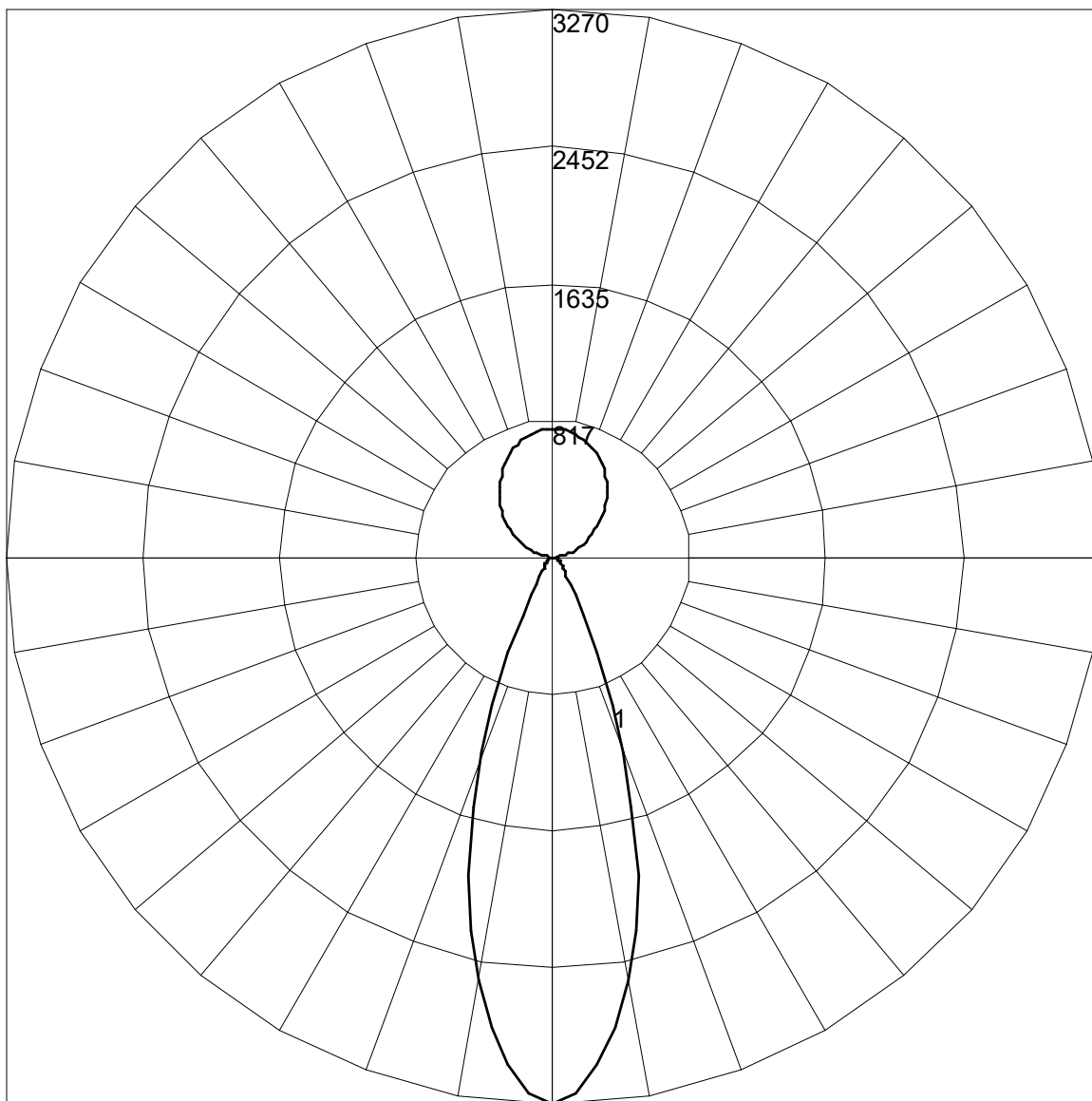
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	78	78	62	62	62	47	47	47	40
1	97	94	91	88	89	86	83	81	71	69	68	57	56	55	44	44	43	37
2	91	85	80	76	83	78	74	70	65	62	60	53	51	50	42	41	40	35
3	84	77	71	66	77	71	66	62	60	56	53	49	47	45	40	38	37	33
4	79	70	64	59	72	65	59	55	55	51	48	46	43	41	38	36	35	31
5	74	64	58	53	68	60	54	50	51	47	44	43	40	38	36	34	33	30
6	69	59	53	48	64	55	50	46	48	44	41	41	38	36	34	32	31	28
7	65	55	49	44	60	52	46	42	45	41	38	38	36	33	33	31	29	27
8	62	51	45	41	57	48	43	39	42	38	35	36	34	31	31	29	28	26
9	58	48	42	38	54	45	40	36	40	36	33	35	32	30	30	28	27	25
10	55	45	39	35	51	43	37	34	38	34	31	33	30	28	29	27	25	24

POLAR GRAPH



Maximum Candela = 3269.736 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)