

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-B-835-F-MLW-ITL85132-ITL92590.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.002 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-B-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 38.0 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 38.0 WATTS

[ABSOLUTE]LUMENS]3599

[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	3602
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	117
Total Luminaire Watts	30.8
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)	0.18 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	2089	2012	2056
55	1758	1649	1635
65	1498	1387	1331
75	1298	1178	1087
85	1076	986	807

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-F-MLW-ITL85132-ITL92590.002.IES****CANDELA TABULATION**

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4112.015	4112.015	4112.015	4112.015	4112.015
2.5	4038.402	4041.491	4036.858	4039.432	4035.314
5.0	3844.847	3840.214	3843.303	3838.670	3840.214
7.5	3520.025	3523.113	3562.236	3557.603	3566.869
10.0	3047.462	3093.792	3196.232	3239.473	3236.384
12.5	2520.848	2591.887	2780.809	2893.545	2874.498
15.0	2043.138	2103.367	2345.825	2512.097	2474.519
17.5	1579.841	1675.589	1927.829	2053.434	1969.011
20.0	1126.326	1251.930	1542.778	1604.551	1564.398
22.5	744.878	875.631	1158.242	1245.238	1194.276
25.0	499.331	580.150	834.963	887.985	788.634
27.5	347.987	392.773	581.180	574.488	502.934
30.0	249.151	281.581	377.844	365.490	335.118
32.5	179.141	205.910	246.062	251.210	239.885
35.0	142.078	154.432	181.201	188.407	175.023
37.5	126.634	128.694	144.137	145.166	135.386
40.0	115.824	115.824	119.942	118.913	116.339
42.5	106.558	106.043	103.984	105.014	105.014
45.0	97.292	96.778	93.689	95.233	95.748
47.5	88.541	88.026	85.453	85.967	86.482
50.0	80.820	80.305	77.216	77.731	77.731
52.5	73.098	72.583	69.495	69.495	69.495
55.0	66.406	65.376	62.288	61.773	61.773
57.5	59.714	58.684	56.110	55.081	55.081
60.0	53.022	52.507	49.933	48.904	48.904
62.5	47.359	46.844	44.271	43.241	42.212
65.0	41.697	40.667	38.608	37.578	37.064
67.5	36.034	35.519	33.975	32.431	31.916
70.0	31.401	30.886	28.827	27.798	26.768
72.5	26.768	26.253	24.709	23.165	22.650
75.0	22.135	21.620	20.076	19.047	18.532
77.5	17.502	17.502	15.958	14.928	14.414
80.0	12.869	13.384	12.355	11.325	10.810
82.5	9.266	9.266	8.751	8.236	7.722
85.0	6.177	5.662	5.662	5.148	4.633
87.5	2.574	2.574	2.574	2.574	2.059
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-B-835-F-MLW-ITL85132-ITL92590.002.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-B-835-F-MLW-ITL85132-ITL92590.002.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	972.45	N.A.	27.00
0-30	1324.69	N.A.	36.80
0-40	1441.53	N.A.	40.00
0-60	1572.86	N.A.	43.70
0-80	1633.41	N.A.	45.30
0-90	1639.61	N.A.	45.50
10-90	1294.35	N.A.	35.90
20-40	469.08	N.A.	13.00
20-50	543.34	N.A.	15.10
40-70	170.33	N.A.	4.70
60-80	60.55	N.A.	1.70
70-80	21.56	N.A.	0.60
80-90	6.20	N.A.	0.20
90-110	169.42	N.A.	4.70
90-120	390.97	N.A.	10.90
90-130	689.80	N.A.	19.20
90-150	1385.17	N.A.	38.50
90-180	1962.43	N.A.	54.50
110-180	1793.01	N.A.	49.80
0-180	3602.04	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	345.26
10-20	627.19
20-30	352.24
30-40	116.84
40-50	74.26
50-60	57.07
60-70	38.99
70-80	21.56
80-90	6.20
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

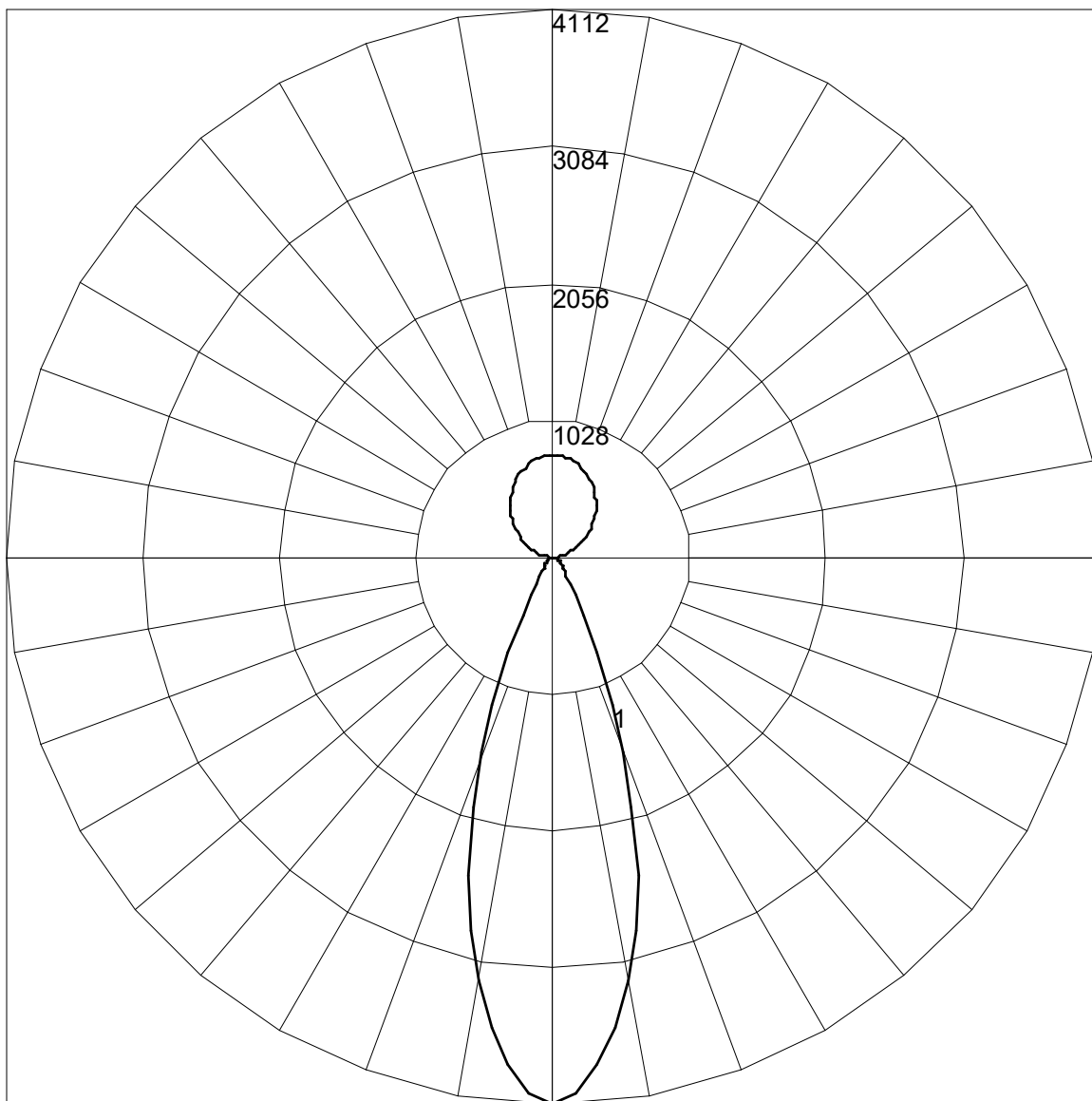
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	106	106	106	106	97	97	97	97	81	81	81	66	66	66	52	52	52	46
1	99	95	92	90	91	88	85	83	74	72	71	61	60	59	49	49	48	43
2	92	86	82	77	85	80	76	72	68	65	63	57	55	53	47	45	45	40
3	86	79	73	68	79	73	68	64	63	59	56	53	51	49	44	43	42	38
4	81	72	66	61	74	67	62	58	58	54	51	50	47	45	42	40	39	35
5	76	66	60	55	70	62	57	52	54	50	47	47	44	42	40	38	37	34
6	71	62	55	50	66	58	52	48	51	47	44	44	41	39	38	36	35	32
7	67	57	51	46	63	54	48	44	48	44	41	42	39	37	36	34	33	31
8	64	54	47	43	59	51	45	41	45	41	38	40	37	35	35	33	31	29
9	60	50	44	40	56	48	42	39	43	39	36	38	35	33	34	32	30	28
10	57	47	42	38	54	45	40	36	41	37	34	36	33	31	32	30	29	27

POLAR GRAPH



Maximum Candela = 4112.015 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)