

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-V-835-F-MLW-ITL85132-ITL92590.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.010 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-V-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 54.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 55.2 WATTS

[ABSOLUTE]LUMENS]5143

[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	5148
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	54.4
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.50
Spacing Criterion (90-270)	0.58
Spacing Criterion (Diagonal)	0.58
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	4058	3908	3994
55	3414	3203	3176
65	2910	2694	2586
75	2522	2288	2112
85	2090	1916	1568

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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	7988.000	7988.000	7988.000	7988.000	7988.000
2.5	7845.000	7851.000	7842.000	7847.000	7839.000
5.0	7469.000	7460.000	7466.000	7457.000	7460.000
7.5	6838.000	6844.000	6920.000	6911.000	6929.000
10.0	5920.000	6010.000	6209.000	6293.000	6287.000
12.5	4897.000	5035.000	5402.000	5621.000	5584.000
15.0	3969.000	4086.000	4557.000	4880.000	4807.000
17.5	3069.000	3255.000	3745.000	3989.000	3825.000
20.0	2188.000	2432.000	2997.000	3117.000	3039.000
22.5	1447.000	1701.000	2250.000	2419.000	2320.000
25.0	970.000	1127.000	1622.000	1725.000	1532.000
27.5	676.000	763.000	1129.000	1116.000	977.000
30.0	484.000	547.000	734.000	710.000	651.000
32.5	348.000	400.000	478.000	488.000	466.000
35.0	276.000	300.000	352.000	366.000	340.000
37.5	246.000	250.000	280.000	282.000	263.000
40.0	225.000	225.000	233.000	231.000	226.000
42.5	207.000	206.000	202.000	204.000	204.000
45.0	189.000	188.000	182.000	185.000	186.000
47.5	172.000	171.000	166.000	167.000	168.000
50.0	157.000	156.000	150.000	151.000	151.000
52.5	142.000	141.000	135.000	135.000	135.000
55.0	129.000	127.000	121.000	120.000	120.000
57.5	116.000	114.000	109.000	107.000	107.000
60.0	103.000	102.000	97.000	95.000	95.000
62.5	92.000	91.000	86.000	84.000	82.000
65.0	81.000	79.000	75.000	73.000	72.000
67.5	70.000	69.000	66.000	63.000	62.000
70.0	61.000	60.000	56.000	54.000	52.000
72.5	52.000	51.000	48.000	45.000	44.000
75.0	43.000	42.000	39.000	37.000	36.000
77.5	34.000	34.000	31.000	29.000	28.000
80.0	25.000	26.000	24.000	22.000	21.000
82.5	18.000	18.000	17.000	16.000	15.000
85.0	12.000	11.000	11.000	10.000	9.000
87.5	5.000	5.000	5.000	5.000	4.000
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-V-835-F-MLW-ITL85132-ITL92590.010.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-V-835-F-MLW-ITL85132-ITL92590.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1889.08	N.A.	36.70
0-30	2573.35	N.A.	50.00
0-40	2800.31	N.A.	54.40
0-60	3055.44	N.A.	59.40
0-80	3173.07	N.A.	61.60
0-90	3185.1	N.A.	61.90
10-90	2514.41	N.A.	48.80
20-40	911.23	N.A.	17.70
20-50	1055.5	N.A.	20.50
40-70	330.88	N.A.	6.40
60-80	117.62	N.A.	2.30
70-80	41.87	N.A.	0.80
80-90	12.04	N.A.	0.20
90-110	169.42	N.A.	3.30
90-120	390.97	N.A.	7.60
90-130	689.80	N.A.	13.40
90-150	1385.17	N.A.	26.90
90-180	1962.43	N.A.	38.10
110-180	1793.01	N.A.	34.80
0-180	5147.54	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	670.69
10-20	1218.39
20-30	684.27
30-40	226.96
40-50	144.27
50-60	110.87
60-70	75.75
70-80	41.87
80-90	12.04
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

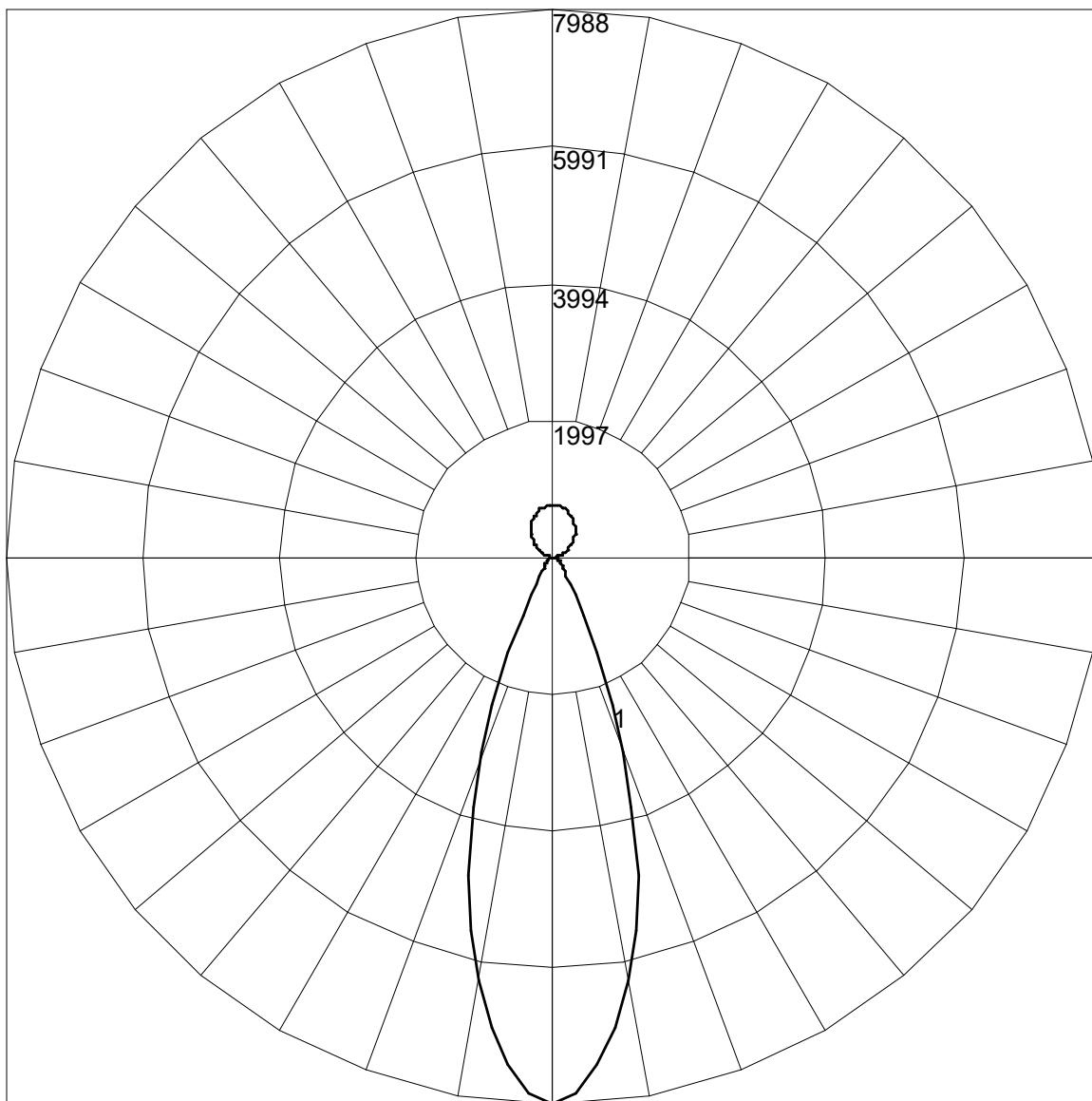
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	103	100	97	95	97	94	92	89	83	81	80	73	72	71	64	63	62	58
2	97	92	87	83	91	87	83	79	77	74	72	68	66	65	60	59	58	54
3	91	84	79	74	86	80	75	71	72	68	65	64	62	60	57	56	54	51
4	86	78	72	68	81	74	69	65	67	63	60	61	58	56	55	53	51	48
5	81	73	66	62	77	69	64	60	63	59	56	58	55	52	52	50	48	46
6	77	68	62	57	73	65	60	56	60	55	52	55	52	49	50	48	46	44
7	73	64	58	53	70	61	56	52	57	52	49	52	49	46	48	46	44	42
8	70	60	54	50	66	58	53	49	54	49	46	50	46	44	46	44	42	40
9	67	57	51	47	63	55	50	46	51	47	44	48	44	42	44	42	40	38
10	64	54	48	45	61	52	47	44	49	45	42	46	42	40	43	40	38	37

POLAR GRAPH



Maximum Candela = 7988 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)