

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-S-835-F-MLW-ITL85132-ITL92590.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL92590.006 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-S-835-F-MLW

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 50.4 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 51.6 WATTS

[ABSOLUTE]LUMENS]5115

[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	5117
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	102
Total Luminaire Watts	50.4
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	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-S-835-F-MLW-ITL85132-ITL92590.006.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-S-835-F-MLW-ITL85132-ITL92590.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	773.26	N.A.	15.10
0-30	1053.35	N.A.	20.60
0-40	1146.25	N.A.	22.40
0-60	1250.69	N.A.	24.40
0-80	1298.83	N.A.	25.40
0-90	1303.76	N.A.	25.50
10-90	1029.23	N.A.	20.10
20-40	372.99	N.A.	7.30
20-50	432.05	N.A.	8.40
40-70	135.44	N.A.	2.60
60-80	48.15	N.A.	0.90
70-80	17.14	N.A.	0.30
80-90	4.93	N.A.	0.10
90-110	329.21	N.A.	6.40
90-120	759.73	N.A.	14.80
90-130	1340.41	N.A.	26.20
90-150	2691.63	N.A.	52.60
90-180	3813.36	N.A.	74.50
110-180	3484.15	N.A.	68.10
0-180	5117.13	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	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

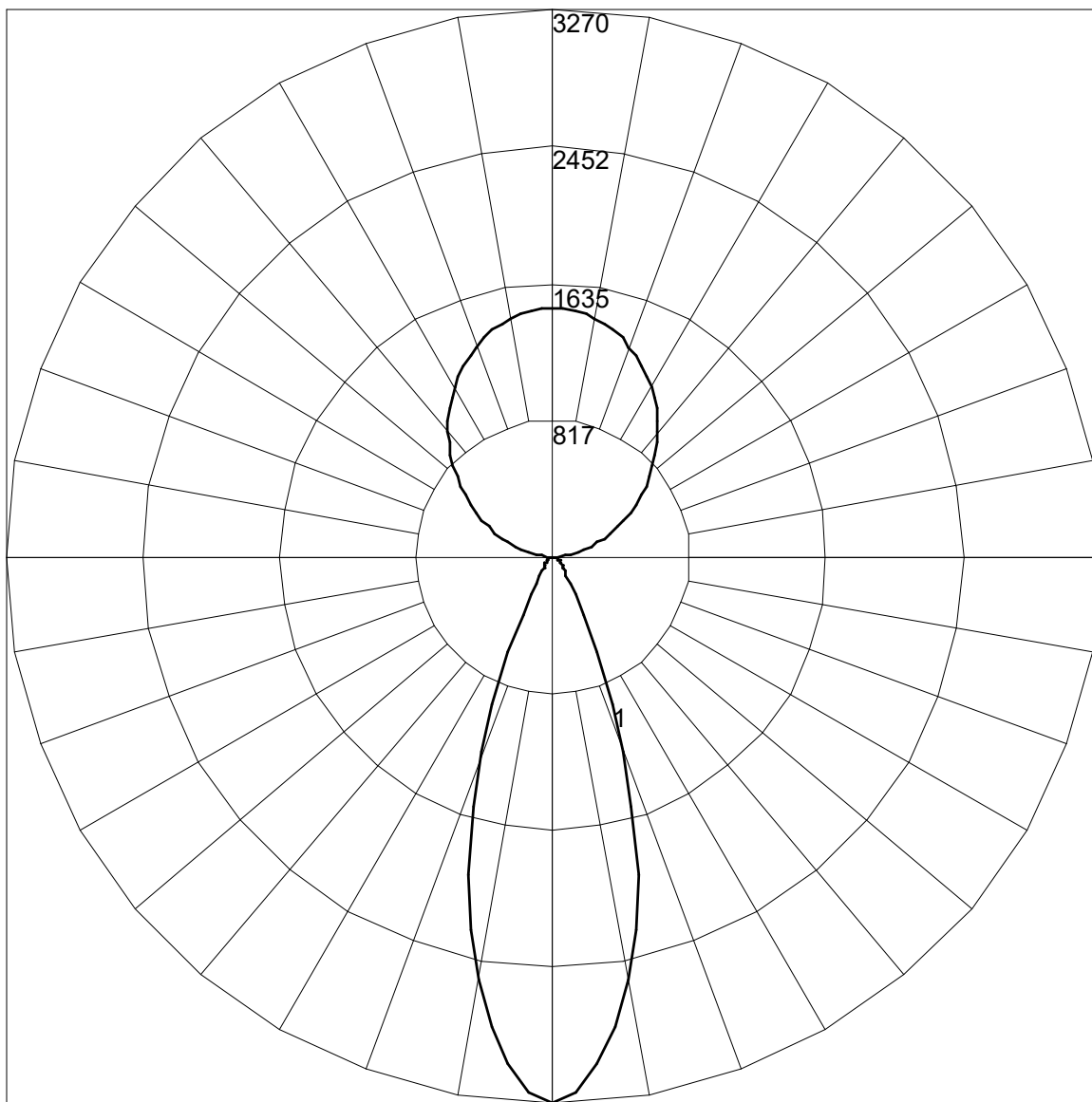
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	25
1	93	90	86	84	83	80	78	75	63	61	59	46	45	45	31	31	31	24
2	86	80	75	71	77	72	68	64	57	54	51	43	41	39	29	29	28	22
3	80	72	66	61	71	65	60	55	51	48	45	39	37	35	28	27	26	21
4	74	65	58	53	66	59	53	49	47	43	40	36	34	32	26	25	24	20
5	69	59	52	47	62	53	48	43	43	39	36	34	31	29	25	23	22	19
6	64	54	47	42	58	49	43	39	40	36	33	31	29	27	23	22	21	18
7	60	49	43	38	54	45	39	35	37	33	30	29	27	25	22	21	20	17
8	56	46	39	34	51	42	36	32	35	30	28	28	25	23	21	20	19	16
9	53	42	36	31	48	39	33	29	32	28	26	26	24	22	20	19	18	16
10	50	39	33	29	45	36	31	27	30	26	24	25	22	20	20	18	17	15

POLAR GRAPH



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