

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-DSO-ITL85132-ITL94139.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL85132-ITL94139.004 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]08/11/15

[ISSUEDATE]12/17/2020

[MANUFAC]FINELITE, INC.

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

[OTHER]INPUT ELECTRICAL: 120.0 VOLTS, 64.3 WATTS

[OTHER]INPUT ELECTRICAL: 277.0 VOLTS, 65.3 WATTS

[ABSOLUTE]LUMENS]6359

[OTHER]see www.finelite.com for source files ITL85132 and ITL94139. 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	6360
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	99
Total Luminaire Watts	64.3
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	10756	13595	13962
55	9780	12518	12518
65	8774	11122	10814
75	7803	9491	8989
85	6775	7182	6504

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-F-DSO-ITL85132-ITL94139.004.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	907.008	907.008	907.008	907.008	907.008
2.5	905.452	905.452	906.230	907.785	907.785
5.0	900.785	901.562	905.452	909.341	910.897
7.5	892.228	895.339	902.340	910.897	915.564
10.0	881.338	885.227	900.785	917.120	922.565
12.5	868.114	872.781	899.229	921.787	928.010
15.0	850.222	858.001	894.562	923.343	931.122
17.5	831.553	841.666	888.338	923.343	932.678
20.0	808.217	822.997	880.560	919.454	929.566
22.5	783.325	801.216	867.336	910.897	922.565
25.0	755.321	779.435	852.556	899.229	910.119
27.5	727.317	756.099	835.443	882.893	893.784
30.0	696.980	731.207	813.662	861.113	869.669
32.5	665.865	703.203	791.104	836.221	843.221
35.0	633.194	673.644	765.433	805.883	810.551
37.5	601.301	644.084	735.096	772.434	774.768
40.0	567.074	612.969	702.425	736.652	735.096
42.5	534.403	580.298	668.976	696.202	693.091
45.0	500.954	546.849	633.194	654.975	650.307
47.5	468.284	513.400	594.300	612.191	607.524
50.0	434.057	479.174	554.628	567.852	560.073
52.5	400.608	443.391	514.178	524.291	516.512
55.0	369.493	408.387	472.951	479.174	472.951
57.5	336.822	373.382	431.723	435.613	425.500
60.0	305.707	337.600	390.495	393.607	383.495
62.5	276.147	303.373	350.824	350.046	342.267
65.0	244.254	270.702	309.596	308.818	301.039
67.5	216.250	237.253	270.702	268.368	260.590
70.0	187.469	205.360	233.364	229.475	222.474
72.5	159.465	174.245	196.804	192.914	186.691
75.0	133.017	143.908	161.799	157.910	153.242
77.5	108.125	115.904	128.350	124.461	120.571
80.0	84.789	88.678	98.013	93.346	90.234
82.5	62.230	63.786	68.453	65.342	63.008
85.0	38.894	40.450	41.228	38.894	37.338
87.5	17.891	17.891	16.335	15.558	14.002
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-DSO-ITL85132-ITL94139.004.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-DSO-ITL85132-ITL94139.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	338.20	N.A.	5.30
0-30	725.47	N.A.	11.40
0-40	1188.76	N.A.	18.70
0-60	2051.46	N.A.	32.30
0-80	2500.92	N.A.	39.30
0-90	2546.37	N.A.	40.00
10-90	2460.09	N.A.	38.70
20-40	850.56	N.A.	13.40
20-50	1315.01	N.A.	20.70
40-70	1150.84	N.A.	18.10
60-80	449.46	N.A.	7.10
70-80	161.32	N.A.	2.50
80-90	45.45	N.A.	0.70
90-110	329.21	N.A.	5.20
90-120	759.73	N.A.	11.90
90-130	1340.41	N.A.	21.10
90-150	2691.63	N.A.	42.30
90-180	3813.36	N.A.	60.00
110-180	3484.15	N.A.	54.80
0-180	6359.74	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	86.28
10-20	251.92
20-30	387.27
30-40	463.29
40-50	464.46
50-60	398.24
60-70	288.14
70-80	161.32
80-90	45.45
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

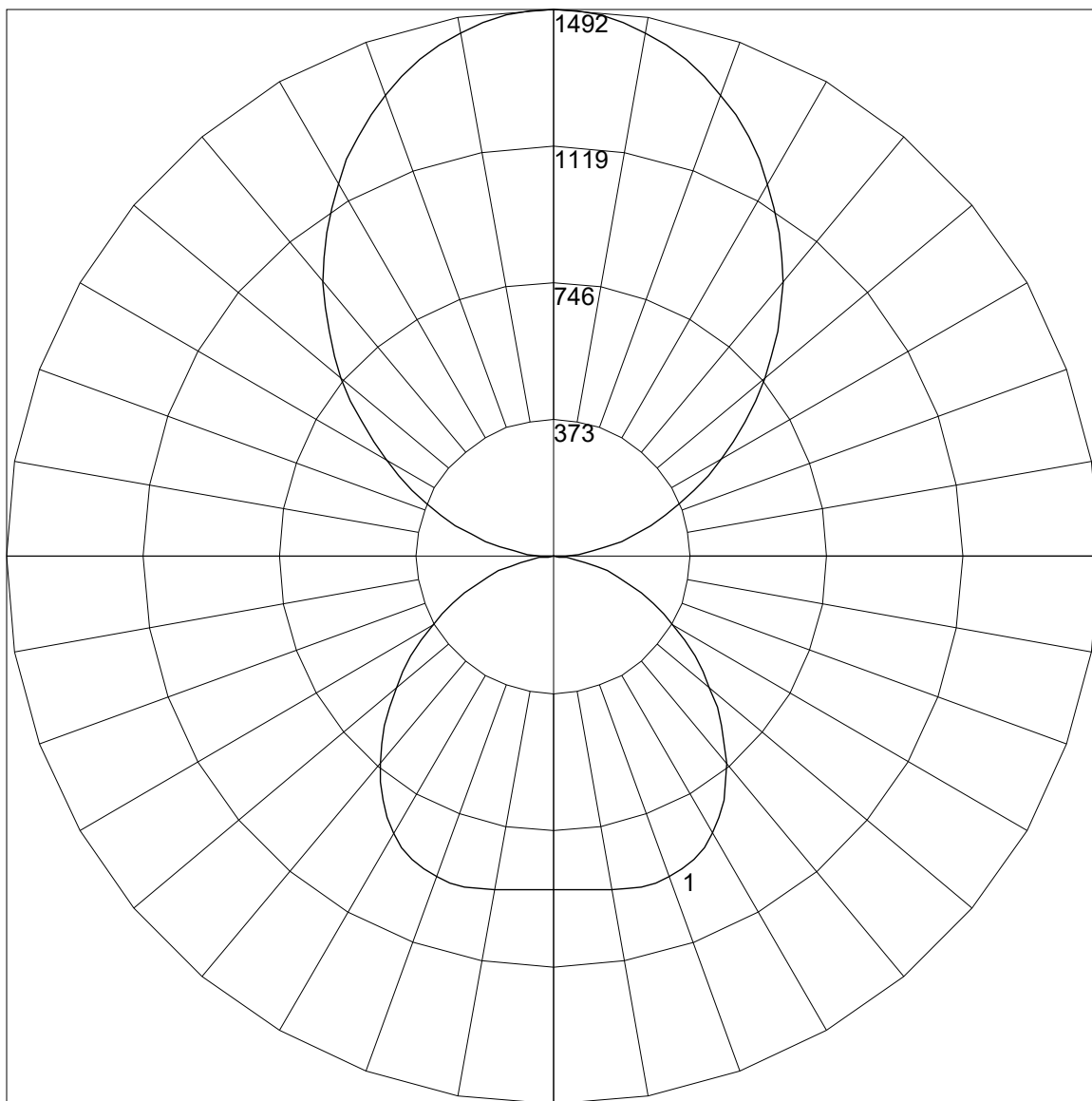
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	78	78	78	62	62	62	47	47	47	40
1	96	91	87	84	87	83	80	77	68	66	64	54	53	51	41	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	36	35	33	28
3	79	70	63	57	72	64	58	53	53	48	44	42	39	36	32	30	28	24
4	72	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	66	55	47	41	60	50	43	38	42	36	32	34	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	56	44	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	26	22	41	31	25	20	26	21	18	21	17	15	17	14	12	10

POLAR GRAPH



Maximum Candela = 1492 Located At Horizontal Angle = 0, Vertical Angle = 180
1 - Vertical Plane Through Horizontal Angles (90 - 270)