

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-4-ID-4FT-H-H-835-WSO-DSO-ITL89033-ITL92993.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89033 and ITL92993.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUEDATE]08/04/2020

[MANUFAC]FINELITE, INC.

[LUMCAT]FINELITE HP-4-ID-4ft-H-H-835-WSO-DSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.9 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 56.8 WATTS

[OTHER]see www.finelite.com for source file ITL89033. 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

[_ABSOLUTE]LUMENS]6273

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6273
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	112
Total Luminaire Watts	55.9
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	6475	8517	9287
55	5961	8095	8671
65	5455	7386	7769
75	4904	6430	6581
85	4310	5053	4904

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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	972.296	972.296	972.296	972.296	972.296
2.5	969.963	970.741	972.296	973.074	973.852
5.0	965.296	966.851	971.518	976.185	977.741
7.5	956.740	961.407	970.741	980.075	983.186
10.0	946.628	951.295	968.407	986.297	991.742
12.5	936.516	940.405	966.851	994.854	1001.854
15.0	923.293	936.516	966.073	1001.076	1009.632
17.5	894.513	908.514	965.296	1003.410	1015.855
20.0	870.400	887.512	963.740	1003.410	1017.411
22.5	846.287	866.510	945.072	1000.298	1016.633
25.0	819.062	848.620	931.071	993.298	1011.188
27.5	786.393	822.952	916.292	983.186	1000.298
30.0	755.280	794.172	898.402	968.407	983.964
32.5	722.611	767.725	881.289	951.295	963.740
35.0	689.941	738.945	852.509	927.960	937.294
37.5	654.939	707.054	824.507	893.735	906.180
40.0	622.270	674.385	793.394	857.954	871.955
42.5	584.933	642.493	759.947	822.174	832.286
45.0	549.931	606.713	723.388	779.393	788.727
47.5	515.706	570.932	686.052	737.389	745.946
50.0	479.925	534.374	645.605	693.831	696.942
52.5	444.145	497.816	601.268	646.383	647.938
55.0	410.698	459.702	557.709	595.045	597.379
57.5	377.251	422.365	512.595	546.042	546.819
60.0	343.026	384.252	466.702	496.260	497.038
62.5	308.801	348.471	420.032	447.256	444.923
65.0	276.910	310.357	374.917	395.141	394.363
67.5	245.797	273.021	329.803	346.915	345.360
70.0	212.350	237.240	285.466	297.912	294.022
72.5	182.792	202.238	241.907	251.241	248.130
75.0	152.456	168.791	199.904	206.127	204.571
77.5	124.454	135.344	159.457	164.124	162.568
80.0	96.452	105.008	121.343	124.454	120.565
82.5	70.783	75.450	85.562	87.118	84.006
85.0	45.114	47.448	52.893	51.337	51.337
87.5	21.002	21.002	21.779	20.224	19.446
90.0	0.000	0.000	0.000	0.000	0.000
92.5	12.444	21.777	23.333	23.333	23.333
95.0	34.999	62.221	63.777	49.777	49.777
97.5	61.443	105.776	163.330	101.887	88.665
100.0	92.554	144.664	258.995	191.330	150.108
102.5	129.887	176.552	382.660	296.328	241.107
105.0	164.108	210.774	477.547	458.103	367.105
107.5	199.108	244.996	521.102	670.433	563.879
110.0	232.551	276.884	542.101	846.985	807.319
112.5	266.773	307.995	566.990	920.095	968.316
115.0	299.439	337.550	608.989	942.650	1028.982
117.5	325.883	364.771	642.433	953.539	1051.537
120.0	349.994	391.215	664.210	996.316	1067.870
122.5	370.993	416.882	678.210	1049.204	1118.425
125.0	391.215	439.437	688.321	1077.981	1177.535
127.5	409.882	459.659	696.099	1078.759	1208.645
130.0	425.437	477.547	702.321	1060.092	1203.201
132.5	441.770	494.658	707.765	1034.426	1174.424

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-H-835-WSO-DSO-ITL89033-ITL92993.003.IES****CANDELA TABULATION - (Cont.)**

135.0	457.325	510.213	711.654	1006.427	1137.091
137.5	472.103	524.213	713.210	976.094	1094.314
140.0	487.658	537.435	713.987	945.761	1049.204
142.5	503.213	549.879	713.210	913.873	1004.093
145.0	519.546	562.323	709.321	884.318	959.761
147.5	532.768	572.434	703.876	854.763	916.984
150.0	546.768	582.545	698.432	825.985	878.096
152.5	560.768	591.101	692.210	797.986	842.318
155.0	573.212	599.656	685.988	771.542	806.541
157.5	584.879	606.656	678.210	747.431	774.653
160.0	595.767	613.656	671.988	725.654	745.876
162.5	605.100	619.100	664.210	705.432	720.987
165.0	614.433	623.767	657.211	687.543	699.210
167.5	621.433	627.655	650.989	671.988	680.543
170.0	626.878	631.544	646.322	659.544	664.210
172.5	630.767	633.878	642.433	649.433	652.544
175.0	634.655	635.433	638.544	641.655	643.989
177.5	636.211	636.211	636.989	637.766	637.766
180.0	636.989	636.989	636.989	636.989	636.989

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-4-ID-4FT-H-H-835-WSO-DSO-ITL89033-ITL92993.003.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	365.40	N.A.	5.80
0-30	790.11	N.A.	12.60
0-40	1310.26	N.A.	20.90
0-60	2319.35	N.A.	37.00
0-80	2870.25	N.A.	45.80
0-90	2927.26	N.A.	46.70
10-90	2834.61	N.A.	45.20
20-40	944.85	N.A.	15.10
20-50	1480.74	N.A.	23.60
40-70	1360.04	N.A.	21.70
60-80	550.90	N.A.	8.80
70-80	199.96	N.A.	3.20
80-90	57.01	N.A.	0.90
90-110	452.25	N.A.	7.20
90-120	1077.31	N.A.	17.20
90-130	1740.03	N.A.	27.70
90-150	2779.74	N.A.	44.30
90-180	3346.01	N.A.	53.30
110-180	2893.75	N.A.	46.10
0-180	6273.27	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	92.65
10-20	272.75
20-30	424.71
30-40	520.14
40-50	535.89
50-60	473.21
60-70	350.94
70-80	199.96
80-90	57.01
90-100	75.36
100-110	376.89
110-120	625.05
120-130	662.72
130-140	584.81
140-150	454.90
150-160	318.48
160-170	186.58
170-180	61.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

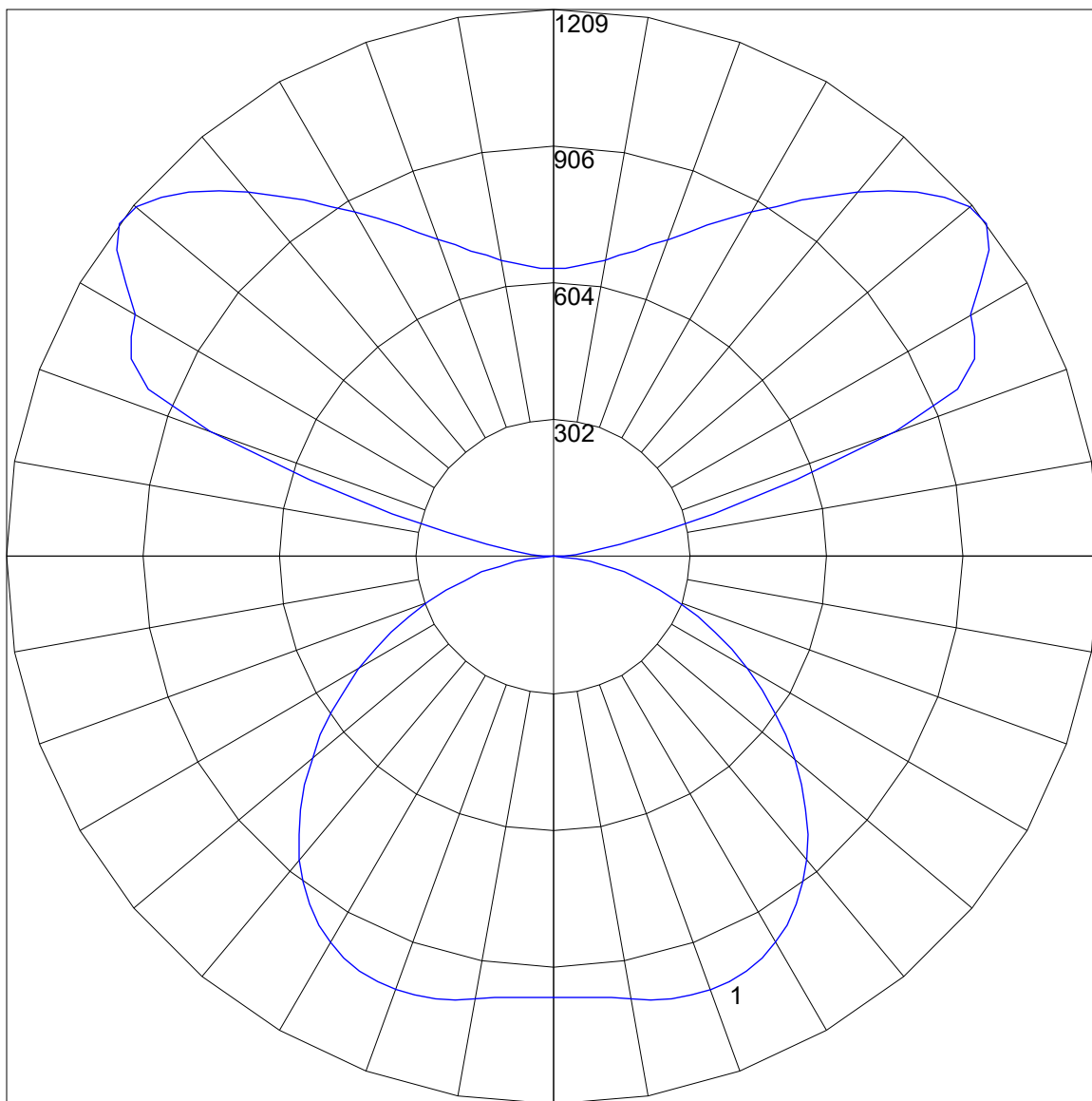
Effective Floor Cavity Reflectance 0.20

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	98	98	98	98	81	81	81	67	67	67	53	53	53	47
1	97	93	89	85	89	85	82	79	71	69	67	58	57	55	47	46	45	39
2	88	81	74	69	81	74	69	64	62	58	55	51	48	46	41	39	37	32
3	80	71	63	57	73	65	59	54	55	50	46	45	42	39	36	34	32	27
4	73	62	55	48	67	58	51	45	49	43	39	40	36	33	32	29	27	23
5	67	56	47	41	61	51	44	39	43	38	34	36	32	28	29	26	23	20
6	62	50	42	36	57	46	39	34	39	33	29	32	28	25	26	23	21	18
7	57	45	37	31	52	41	34	29	35	30	26	29	25	22	24	21	18	15
8	53	41	33	27	48	38	31	26	32	27	23	27	22	19	22	19	16	14
9	49	37	29	24	45	34	28	23	29	24	20	25	20	17	20	17	15	12
10	46	34	27	22	42	31	25	21	27	22	18	23	19	16	19	15	13	11

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POLAR GRAPH



Maximum Candela = 1208.645 Located At Horizontal Angle = 90, Vertical Angle = 127.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)