

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-B-835-WSO-DSO-ITL89033-ITL92993.008.IES****DESCRIPTION INFORMATION (From Photometric File)**

[TEST]ITL89033 and ITL92993.008 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]03/27/17

[ISSUE DATE]08/04/2020

[MANUFAC]FINELITE, INC.

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

[INPUT_ELECTRICAL]120.0 VOLTS, 46.2 WATTS

[INPUT_ELECTRICAL]277.0 VOLTS, 47.7 WATTS

[OTHER]see www.finelite.com for source files ITL89033 and ITL92993. 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]5283

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5283
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	114
Total Luminaire Watts	46.2
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)	0.32 ft
Luminous Height	0.00 ft

LUMINANCE DATA (cd/sq.m)

Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	4285	5636	6146
55	3945	5357	5738
65	3610	4888	5141
75	3245	4255	4355
85	2852	3344	3245

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	643.436	643.436	643.436	643.436	643.436
2.5	641.892	642.407	643.436	643.951	644.466
5.0	638.803	639.833	642.922	646.010	647.039
7.5	633.141	636.230	642.407	648.584	650.643
10.0	626.449	629.538	640.862	652.702	656.305
12.5	619.758	622.332	639.833	658.364	662.997
15.0	611.007	619.758	639.318	662.482	668.144
17.5	591.961	601.227	638.803	664.026	672.262
20.0	576.004	587.329	637.774	664.026	673.292
22.5	560.047	573.430	625.420	661.967	672.777
25.0	542.031	561.591	616.154	657.335	669.174
27.5	520.411	544.604	606.374	650.643	661.967
30.0	499.821	525.559	594.535	640.862	651.158
32.5	478.202	508.057	583.211	629.538	637.774
35.0	456.582	489.012	564.165	614.096	620.273
37.5	433.419	467.907	545.634	591.447	599.683
40.0	411.799	446.287	525.044	567.768	577.034
42.5	387.091	425.183	502.910	544.090	550.781
45.0	363.928	401.504	478.717	515.779	521.956
47.5	341.279	377.826	454.009	487.982	493.644
50.0	317.600	353.633	427.242	459.156	461.215
52.5	293.922	329.439	397.901	427.756	428.786
55.0	271.788	304.217	369.075	393.783	395.327
57.5	249.653	279.509	339.220	361.354	361.869
60.0	227.004	254.286	308.849	328.410	328.925
62.5	204.355	230.608	277.964	295.981	294.436
65.0	183.251	205.385	248.109	261.493	260.978
67.5	162.661	180.677	218.254	229.578	228.549
70.0	140.526	156.998	188.913	197.149	194.575
72.5	120.966	133.835	160.087	166.264	164.205
75.0	100.891	111.701	132.291	136.409	135.379
77.5	82.360	89.566	105.523	108.612	107.582
80.0	63.829	69.491	80.301	82.360	79.786
82.5	46.842	49.931	56.622	57.652	55.593
85.0	29.855	31.400	35.003	33.973	33.973
87.5	13.898	13.898	14.413	13.383	12.869
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-B-835-WSO-DSO-ITL89033-ITL92993.008.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

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Zone	Lumens	%Lamp	%Fixt
0-20	241.81	N.A.	4.60
0-30	522.87	N.A.	9.90
0-40	867.09	N.A.	16.40
0-60	1534.88	N.A.	29.10
0-80	1899.44	N.A.	36.00
0-90	1937.17	N.A.	36.70
10-90	1875.86	N.A.	35.50
20-40	625.28	N.A.	11.80
20-50	979.91	N.A.	18.50
40-70	900.03	N.A.	17.00
60-80	364.57	N.A.	6.90
70-80	132.33	N.A.	2.50
80-90	37.73	N.A.	0.70
90-110	452.25	N.A.	8.60
90-120	1077.31	N.A.	20.40
90-130	1740.03	N.A.	32.90
90-150	2779.74	N.A.	52.60
90-180	3346.01	N.A.	63.30
110-180	2893.75	N.A.	54.80
0-180	5283.18	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	61.32
10-20	180.50
20-30	281.06
30-40	344.22
40-50	354.63
50-60	313.15
60-70	232.24
70-80	132.33
80-90	37.73
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

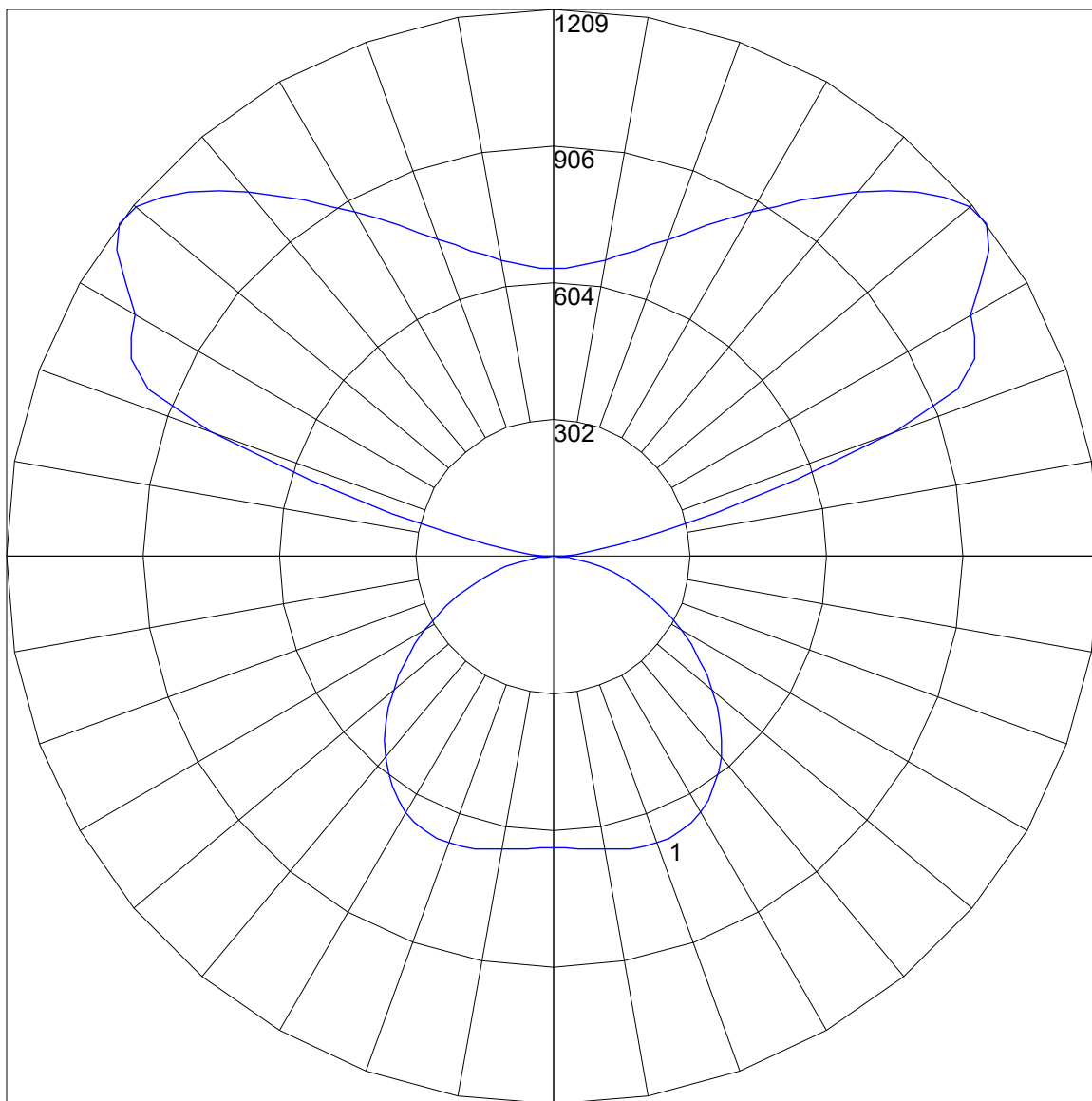
Effective Floor Cavity Reflectance 0.20

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	37
1	95	90	87	83	86	82	79	76	66	64	62	52	50	49	39	38	37	31
2	86	79	73	68	78	72	66	62	58	54	51	45	43	41	34	32	31	26
3	78	69	62	56	71	63	57	52	51	46	43	40	37	34	30	28	26	21
4	72	61	53	47	65	56	49	44	45	40	36	36	32	29	27	24	22	18
5	66	54	46	40	59	49	42	37	40	35	31	32	28	25	24	21	19	16
6	60	48	41	35	54	44	37	32	36	31	27	29	25	22	22	19	17	14
7	56	44	36	30	50	40	33	28	33	27	24	26	22	19	20	17	15	12
8	52	39	32	27	47	36	29	25	30	25	21	24	20	17	18	15	13	11
9	48	36	29	24	43	33	26	22	27	22	19	22	18	15	17	14	12	10
10	45	33	26	21	40	30	24	20	25	20	17	20	16	14	15	13	11	9

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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.)