

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-H-H-835-WSO-ITL89456.003.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.003 Family Correlation File

[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.

[TESTDATE]07/19/17

[ISSUEDATE]08/23/17

[MANUFAC]FINELITE, INC.

[LUMCAT]HP2ID-4ft-H-H-835-WSO

[_INPUT_ELECTRICAL]120.0 VOLTS, 55.6 WATTS

[_INPUT_ELECTRICAL]277.0 VOLTS, 57.5 WATTS

[OTHER]see www.finelite.com for source file ITL89456. 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]5701

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5701
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	55.6
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	13259	12507	11773
55	11693	11014	10273
65	10170	9611	8997
75	8531	8212	7756
85	6638	6503	6097

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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	1136.311	1136.311	1136.311	1136.311	1136.311
2.5	1134.756	1134.756	1133.978	1133.978	1134.756
5.0	1128.534	1127.756	1126.200	1125.422	1125.422
7.5	1119.200	1118.423	1114.534	1111.423	1112.201
10.0	1108.312	1102.867	1098.201	1095.090	1094.312
12.5	1089.645	1084.201	1078.757	1074.090	1071.757
15.0	1070.201	1059.313	1056.979	1048.424	1043.757
17.5	1046.091	1032.091	1027.424	1016.536	1010.314
20.0	1018.091	1002.536	996.314	983.092	974.537
22.5	986.981	970.648	960.537	945.759	937.204
25.0	951.981	936.426	923.204	906.093	896.760
27.5	918.538	898.316	883.538	864.872	855.539
30.0	878.872	859.428	841.539	821.317	811.206
32.5	838.428	818.984	800.318	777.763	767.652
35.0	795.651	776.207	756.763	732.652	722.541
37.5	752.096	733.430	713.208	688.320	678.987
40.0	706.986	689.098	668.876	643.210	633.877
42.5	661.876	645.543	626.099	599.655	590.322
45.0	617.543	601.210	582.544	557.656	548.323
47.5	572.433	557.656	539.767	514.879	506.323
50.0	528.101	514.879	497.768	474.435	465.102
52.5	485.324	473.657	456.547	434.769	426.214
55.0	441.769	433.214	416.103	395.881	388.104
57.5	400.548	392.770	377.215	358.549	351.549
60.0	360.104	353.882	339.882	322.771	316.549
62.5	321.216	314.994	303.327	288.550	282.328
65.0	283.106	276.883	267.550	255.106	250.440
67.5	246.551	241.884	233.329	223.218	218.551
70.0	211.551	208.440	200.663	192.107	188.996
72.5	177.330	175.774	169.552	163.330	160.997
75.0	145.442	144.664	139.997	135.331	132.220
77.5	115.887	115.109	111.220	108.887	106.553
80.0	87.887	87.109	84.776	82.443	80.887
82.5	62.221	62.221	60.665	59.110	56.777
85.0	38.110	38.110	37.333	35.777	34.999
87.5	15.555	15.555	14.777	13.222	13.222
90.0	0.000	0.000	0.000	0.000	0.000
92.5	14.000	24.111	24.111	23.333	23.333
95.0	36.555	64.554	64.554	53.666	52.888
97.5	61.443	105.776	129.886	93.332	87.887
100.0	87.109	137.664	258.217	150.108	132.220
102.5	115.109	167.997	356.993	265.217	210.774
105.0	142.331	200.663	413.770	432.436	356.215
107.5	169.552	232.551	448.769	583.322	543.656
110.0	196.774	262.106	479.880	671.987	678.987
112.5	223.996	290.883	516.434	730.319	759.874
115.0	251.995	318.105	559.989	772.318	815.095
117.5	279.995	345.327	607.433	811.984	857.872
120.0	307.994	374.104	646.321	853.983	900.649
122.5	333.660	398.214	674.320	913.093	945.759
125.0	357.771	421.547	689.875	977.648	1010.314
127.5	380.326	443.325	699.209	1021.202	1081.868
130.0	398.992	461.991	704.653	1039.091	1133.200
132.5	417.659	479.102	706.208	1032.091	1149.533

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CANDELA TABULATION - (Cont.)

135.0	433.992	493.101	705.431	1010.314	1133.200
137.5	448.769	506.323	703.097	980.759	1098.979
140.0	463.547	517.990	699.209	948.093	1055.424
142.5	477.546	528.879	693.764	911.538	1008.758
145.0	492.324	538.989	688.320	876.538	961.315
147.5	504.768	546.767	682.098	840.761	913.093
150.0	517.212	555.322	674.320	808.873	867.983
152.5	528.879	561.545	664.987	778.540	825.984
155.0	539.767	566.211	655.654	748.985	787.096
157.5	549.878	572.433	647.098	721.764	752.096
160.0	558.434	576.322	636.988	695.320	719.430
162.5	566.211	579.433	626.877	672.765	689.098
165.0	572.433	582.544	616.766	650.987	663.431
167.5	577.878	584.877	608.988	632.321	640.876
170.0	582.544	587.211	603.544	617.543	622.988
172.5	584.877	588.766	597.322	605.099	609.766
175.0	587.989	589.544	593.433	597.322	598.877
177.5	589.544	589.544	591.100	591.100	591.877
180.0	590.322	590.322	590.322	590.322	590.322

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	403.36	N.A.	7.10
0-30	827.58	N.A.	14.50
0-40	1300.32	N.A.	22.80
0-60	2120.49	N.A.	37.20
0-80	2533.93	N.A.	44.40
0-90	2575.85	N.A.	45.20
10-90	2469.18	N.A.	43.30
20-40	896.96	N.A.	15.70
20-50	1345.34	N.A.	23.60
40-70	1085.08	N.A.	19.00
60-80	413.44	N.A.	7.30
70-80	148.53	N.A.	2.60
80-90	41.93	N.A.	0.70
90-110	408.94	N.A.	7.20
90-120	948.47	N.A.	16.60
90-130	1565.22	N.A.	27.50
90-150	2586.48	N.A.	45.40
90-180	3124.9	N.A.	54.80
110-180	2715.96	N.A.	47.60
0-180	5700.75	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

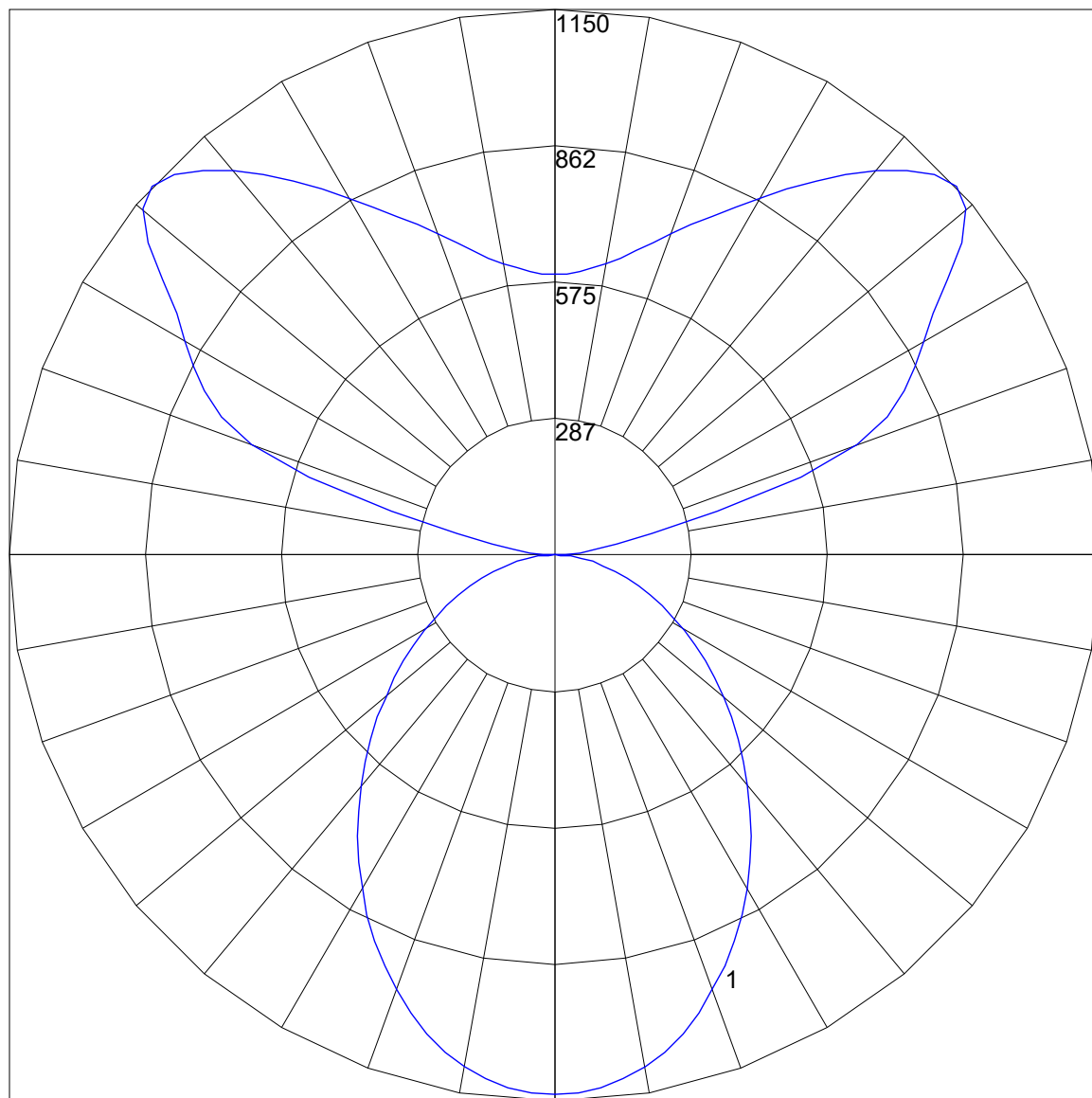
Zone	Lumens
0-10	106.68
10-20	296.68
20-30	424.22
30-40	472.74
40-50	448.38
50-60	371.80
60-70	264.90
70-80	148.53
80-90	41.93
90-100	71.33
100-110	337.61
110-120	539.53
120-130	616.75
130-140	576.43
140-150	444.83
150-160	305.77
160-170	175.72
170-180	56.93

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	97	97	97	97	81	81	81	66	66	66	52	52	52	45
1	97	93	89	85	89	85	82	79	71	69	67	58	56	55	46	45	44	38
2	88	81	75	70	81	75	69	65	62	59	55	51	49	46	41	39	37	33
3	81	71	64	59	74	66	60	55	55	51	47	45	42	39	36	34	32	28
4	74	63	56	50	68	58	52	46	49	44	40	41	37	34	33	30	28	24
5	68	57	49	43	62	52	45	40	44	39	35	37	33	29	29	27	24	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	33	53	43	36	31	36	31	27	30	26	23	25	22	19	17
8	54	42	34	29	49	39	32	27	33	28	24	28	24	21	23	20	17	15
9	50	38	31	26	46	35	29	24	30	25	21	25	21	19	21	18	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	19	16	14	12

POLAR GRAPH



Maximum Candela = 1149.533 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)