

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-WSO-ITL89456.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456.006 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]08/23/17
[MANUFAC]FINELITE, INC.
[LUMCAT]HP2ID-4ft-V-H-835-WSO
[INPUT_ELECTRICAL]120.0 VOLTS, 64.1 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 66.0 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]6594

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6594
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	64.1
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	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	633.876
42.5	661.876	645.543	626.099	599.655	590.322
45.0	617.543	601.211	582.544	557.656	548.323
47.5	572.433	557.656	539.767	514.879	506.324
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	388.103
57.5	400.548	392.770	377.215	358.549	351.549
60.0	360.104	353.882	339.882	322.772	316.549
62.5	321.216	314.994	303.327	288.550	282.328
65.0	283.106	276.884	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	60.666	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	18.000	31.000	31.000	30.000	30.000
95.0	47.000	83.000	83.000	69.000	68.000
97.5	79.000	136.000	167.000	120.000	113.000
100.0	112.000	177.000	332.000	193.000	170.000
102.5	148.000	216.000	459.000	341.000	271.000
105.0	183.000	258.000	532.000	556.000	458.000
107.5	218.000	299.000	577.000	750.000	699.000
110.0	253.000	337.000	617.000	864.000	873.000
112.5	288.000	374.000	664.000	939.000	977.000
115.0	324.000	409.000	720.000	993.000	1048.000
117.5	360.000	444.000	781.000	1044.000	1103.000
120.0	396.000	481.000	831.000	1098.000	1158.000
122.5	429.000	512.000	867.000	1174.000	1216.000
125.0	460.000	542.000	887.000	1257.000	1299.000
127.5	489.000	570.000	899.000	1313.000	1391.000
130.0	513.000	594.000	906.000	1336.000	1457.000
132.5	537.000	616.000	908.000	1327.000	1478.000

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CANDELA TABULATION - (Cont.)

135.0	558.000	634.000	907.000	1299.000	1457.000
137.5	577.000	651.000	904.000	1261.000	1413.000
140.0	596.000	666.000	899.000	1219.000	1357.000
142.5	614.000	680.000	892.000	1172.000	1297.000
145.0	633.000	693.000	885.000	1127.000	1236.000
147.5	649.000	703.000	877.000	1081.000	1174.000
150.0	665.000	714.000	867.000	1040.000	1116.000
152.5	680.000	722.000	855.000	1001.000	1062.000
155.0	694.000	728.000	843.000	963.000	1012.000
157.5	707.000	736.000	832.000	928.000	967.000
160.0	718.000	741.000	819.000	894.000	925.000
162.5	728.000	745.000	806.000	865.000	886.000
165.0	736.000	749.000	793.000	837.000	853.000
167.5	743.000	752.000	783.000	813.000	824.000
170.0	749.000	755.000	776.000	794.000	801.000
172.5	752.000	757.000	768.000	778.000	784.000
175.0	756.000	758.000	763.000	768.000	770.000
177.5	758.000	758.000	760.000	760.000	761.000
180.0	759.000	759.000	759.000	759.000	759.000

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-20	403.36	N.A.	6.10
0-30	827.58	N.A.	12.60
0-40	1300.32	N.A.	19.70
0-60	2120.49	N.A.	32.20
0-80	2533.93	N.A.	38.40
0-90	2575.86	N.A.	39.10
10-90	2469.18	N.A.	37.40
20-40	896.96	N.A.	13.60
20-50	1345.34	N.A.	20.40
40-70	1085.08	N.A.	16.50
60-80	413.44	N.A.	6.30
70-80	148.53	N.A.	2.30
80-90	41.93	N.A.	0.60
90-110	525.79	N.A.	8.00
90-120	1219.49	N.A.	18.50
90-130	2012.46	N.A.	30.50
90-150	3325.54	N.A.	50.40
90-180	4017.8	N.A.	60.90
110-180	3492.02	N.A.	53.00
0-180	6593.66	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

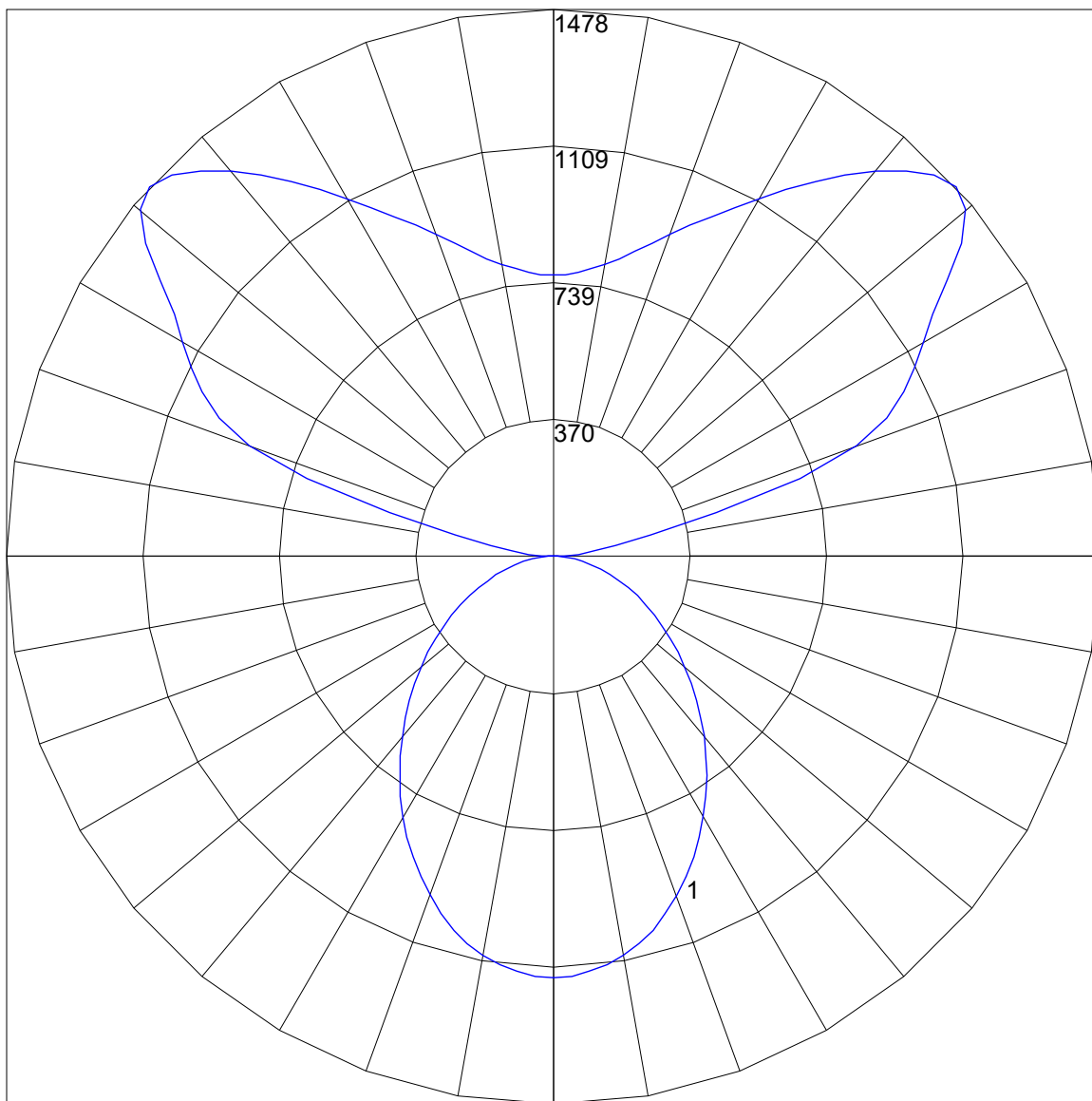
Zone	Lumens
0-10	106.68
10-20	296.68
20-30	424.22
30-40	472.74
40-50	448.38
50-60	371.80
60-70	264.90
70-80	148.53
80-90	41.93
90-100	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

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	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	48	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	29	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	35	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	38	31	26	31	26	23	26	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	32	25	21	26	22	18	22	18	15	17	15	13	11

POLAR GRAPH



Maximum Candela = 1478 Located At Horizontal Angle = 90, Vertical Angle = 132.5
1 - Vertical Plane Through Horizontal Angles (90 - 270) (Through Max. Cd.)