

# 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-MLW-ITL89456-KPL2008-7.006.IES

### DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.006 Family Correlation File  
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.  
[TESTDATE]07/19/17  
[ISSUE DATE]02/07/23  
[MANUFACTURER]FINELITE, INC.  
[LUMCAT]HP2ID-4ft-V-H-835-WSO-MLW  
[INPUT\_ELECTRICAL]120.0 VOLTS, 64.0 WATTS  
[INPUT\_ELECTRICAL]277.0 VOLTS, 64.0 WATTS  
[OTHER]see [www.finelite.com](http://www.finelite.com) for source files ITL89456 and KPL2008-7. For further details on Finelite family correlation files, go  
[more][http://www.finelite.com/download\\_files/series\\_downloads/photometry\\_pdf/FL\\_Family\\_Correlation\\_WhitePaper.pdf](http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf)  
[ABSOLUTE LUMENS]6712

### CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	6711
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	105
Total Luminaire Watts	64
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	3941	3851	3729
55	3284	3191	3038
65	2801	2650	2480
75	2373	2201	1988
85	1866	1685	1512

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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	6767.834	6767.833	6767.833	6767.833	6767.833
2.5	6614.418	6654.234	6623.916	6629.399	6642.179
5.0	6240.377	6286.042	6276.172	6281.656	6300.284
7.5	5646.730	5720.847	5744.042	5794.342	5792.258
10.0	4825.735	4981.204	5147.546	5243.326	5256.175
12.5	3940.603	4103.920	4470.836	4635.468	4670.570
15.0	3210.776	3383.194	3745.910	3995.470	3986.626
17.5	2499.508	2689.130	3064.665	3236.273	3135.383
20.0	1744.410	2005.078	2394.893	2497.649	2455.826
22.5	1173.264	1464.725	1804.169	1914.743	1862.031
25.0	791.772	943.802	1370.151	1448.391	1382.059
27.5	568.167	630.633	907.051	906.398	812.228
30.0	414.791	477.466	579.546	570.508	526.453
32.5	316.226	360.002	408.809	393.300	388.042
35.0	263.934	280.743	307.616	304.116	294.502
37.5	240.553	242.941	254.663	246.768	233.335
40.0	220.276	222.244	219.280	210.429	206.166
42.5	201.943	203.475	196.475	190.696	190.532
45.0	183.555	185.601	179.363	174.976	173.669
47.5	160.867	168.847	163.223	159.957	157.405
50.0	150.957	152.606	148.927	146.361	145.567
52.5	137.781	138.606	134.180	130.065	128.580
55.0	124.076	124.636	120.561	117.480	114.758
57.5	111.266	111.515	107.423	103.830	102.251
60.0	99.147	99.544	95.476	92.062	90.529
62.5	88.453	88.040	84.221	81.133	79.282
65.0	77.975	77.470	73.775	70.734	69.023
67.5	67.389	67.467	63.812	61.074	59.207
70.0	57.916	57.729	54.571	51.950	50.044
72.5	48.395	48.504	45.766	43.293	41.551
75.0	40.462	40.049	37.522	35.453	33.897
77.5	32.232	31.462	29.798	28.110	26.873
80.0	24.968	24.361	22.697	21.226	20.573
82.5	17.400	17.197	15.867	15.004	14.187
85.0	10.710	10.283	9.676	9.023	8.680
87.5	4.371	4.465	4.013	3.749	3.562
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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-WSO-MLW-ITL89456-KPL2008-7.006.IES****CANDELA TABULATION - (Cont.)**

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

**IES INDOOR REPORT****PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-H-835-WSO-MLW-ITL89456-KPL2008-7.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1561.13	N.A.	23.30
0-30	2122.75	N.A.	31.60
0-40	2321.33	N.A.	34.60
0-60	2568.5	N.A.	38.30
0-80	2681.94	N.A.	40.00
0-90	2693.11	N.A.	40.10
10-90	2131.68	N.A.	31.80
20-40	760.20	N.A.	11.30
20-50	899.24	N.A.	13.40
40-70	320.65	N.A.	4.80
60-80	113.44	N.A.	1.70
70-80	39.97	N.A.	0.60
80-90	11.17	N.A.	0.20
90-110	525.79	N.A.	7.80
90-120	1219.49	N.A.	18.20
90-130	2012.46	N.A.	30.00
90-150	3325.54	N.A.	49.60
90-180	4017.8	N.A.	59.90
110-180	3492.02	N.A.	52.00
0-180	6710.91	N.A.	100.00

Total Luminaire Efficiency = N.A. %

**ZONAL LUMEN SUMMARY**

Zone	Lumens
0-10	561.43
10-20	999.70
20-30	561.62
30-40	198.58
40-50	139.04
50-60	108.14
60-70	73.47
70-80	39.97
80-90	11.17
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

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## COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

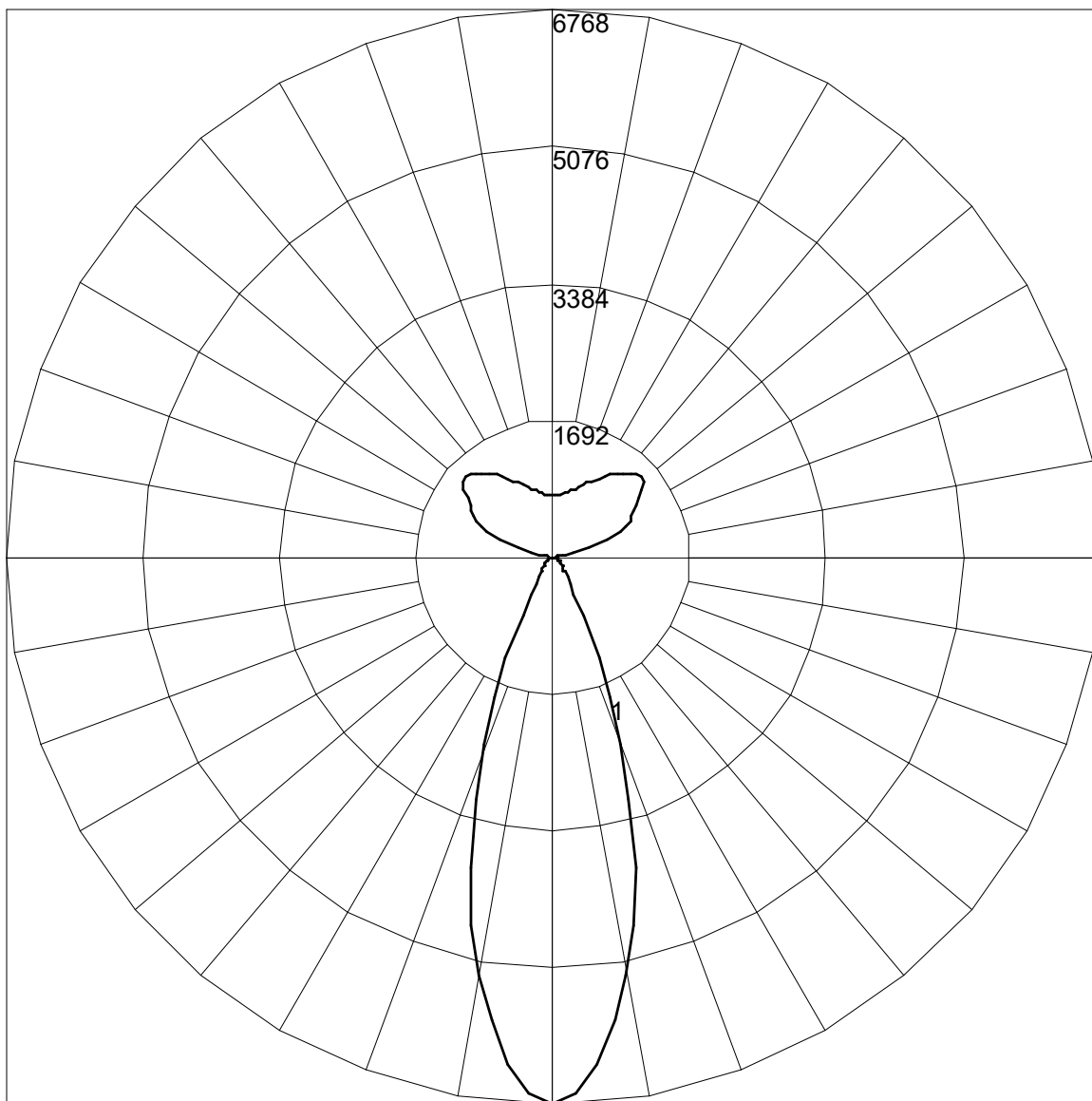
Effective Floor Cavity Reflectance 0.20

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	97	94	91	88	89	86	83	81	71	69	67	57	56	55	44	44	43	37
2	90	84	80	75	83	78	73	70	65	62	59	53	51	49	42	41	40	35
3	84	77	71	66	77	71	66	62	59	56	53	49	47	45	39	38	37	33
4	79	70	63	59	72	65	59	55	55	51	48	46	43	41	37	36	35	31
5	74	64	57	53	68	60	54	50	51	47	44	43	40	38	36	34	32	29
6	69	59	52	48	64	55	49	45	48	43	40	40	38	35	34	32	31	28
7	65	55	48	44	60	51	46	42	45	40	37	38	35	33	32	30	29	27
8	61	51	45	40	57	48	42	38	42	38	35	36	33	31	31	29	28	25
9	58	48	42	37	54	45	39	36	40	35	33	34	32	29	30	28	26	24
10	55	45	39	35	51	42	37	33	37	33	31	33	30	28	28	27	25	23

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POLAR GRAPH



Maximum Candela = 6767.834 Located At Horizontal Angle = 0, Vertical Angle = 0

# 1 - Vertical Plane Through Horizontal Angles (90 - 270)