

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-S-H-835-WSO-MLW-ITL89456-KPL2008-7.014.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.014 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP2ID-4ft-S-H-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 42.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 43.2 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-7. For further details on Finelite family correlation files, go to http://www.finelite.com/download_files/series_downloads/photometry_pdf/FL_Family_Correlation_WhitePaper.pdf
[ABSOLUTE LUMENS]4339

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4338
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	103
Total Luminaire Watts	42
Ballast Factor	1.00
CIE Type	Semi-Direct
Spacing Criterion (0-180)	0.48
Spacing Criterion (90-270)	0.56
Spacing Criterion (Diagonal)	0.56
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	7.368	12.690	12.690	12.281	12.281
95.0	19.240	33.977	33.977	28.246	27.836
97.5	32.339	55.672	68.363	49.123	46.257
100.0	45.848	72.456	135.906	79.006	69.591
102.5	60.585	88.421	187.895	139.591	110.936
105.0	74.912	105.614	217.778	227.602	187.485
107.5	89.240	122.398	236.199	307.017	286.140
110.0	103.567	137.953	252.573	353.684	357.368
112.5	117.895	153.099	271.813	384.386	399.942
115.0	132.632	167.427	294.737	406.491	429.006
117.5	147.368	181.754	319.708	427.368	451.520
120.0	162.105	196.901	340.175	449.474	474.035
122.5	175.614	209.591	354.912	480.585	497.778
125.0	188.304	221.871	363.099	514.561	531.754
127.5	200.175	233.333	368.012	537.485	569.415
130.0	210.000	243.158	370.877	546.901	596.433
132.5	219.825	252.164	371.696	543.216	605.029

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-S-H-835-WSO-MLW-ITL89456-KPL2008-7.014.IES****CANDELA TABULATION - (Cont.)**

135.0	228.421	259.532	371.286	531.754	596.433
137.5	236.199	266.491	370.058	516.199	578.421
140.0	243.977	272.632	368.012	499.006	555.497
142.5	251.345	278.363	365.146	479.766	530.936
145.0	259.123	283.684	362.281	461.345	505.965
147.5	265.673	287.778	359.006	442.515	480.585
150.0	272.222	292.281	354.912	425.731	456.842
152.5	278.363	295.555	350.000	409.766	434.737
155.0	284.094	298.012	345.088	394.211	414.269
157.5	289.415	301.286	340.585	379.883	395.848
160.0	293.918	303.333	335.263	365.965	378.655
162.5	298.012	304.971	329.942	354.094	362.690
165.0	301.286	306.608	324.620	342.632	349.181
167.5	304.152	307.836	320.526	332.807	337.310
170.0	306.608	309.064	317.661	325.029	327.895
172.5	307.836	309.883	314.386	318.479	320.936
175.0	309.474	310.292	312.339	314.386	315.205
177.5	310.292	310.292	311.111	311.111	311.520
180.0	310.702	310.702	310.702	310.702	310.702

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Zone	Lumens	%Lamp	%Fixt
0-20	1561.13	N.A.	36.00
0-30	2122.75	N.A.	48.90
0-40	2321.33	N.A.	53.50
0-60	2568.5	N.A.	59.20
0-80	2681.94	N.A.	61.80
0-90	2693.11	N.A.	62.10
10-90	2131.68	N.A.	49.10
20-40	760.20	N.A.	17.50
20-50	899.24	N.A.	20.70
40-70	320.65	N.A.	7.40
60-80	113.44	N.A.	2.60
70-80	39.97	N.A.	0.90
80-90	11.17	N.A.	0.30
90-110	215.23	N.A.	5.00
90-120	499.21	N.A.	11.50
90-130	823.81	N.A.	19.00
90-150	1361.33	N.A.	31.40
90-180	1644.71	N.A.	37.90
110-180	1429.48	N.A.	33.00
0-180	4337.83	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	37.54
100-110	177.69
110-120	283.97
120-130	324.61
130-140	303.39
140-150	234.13
150-160	160.94
160-170	92.48
170-180	29.96

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

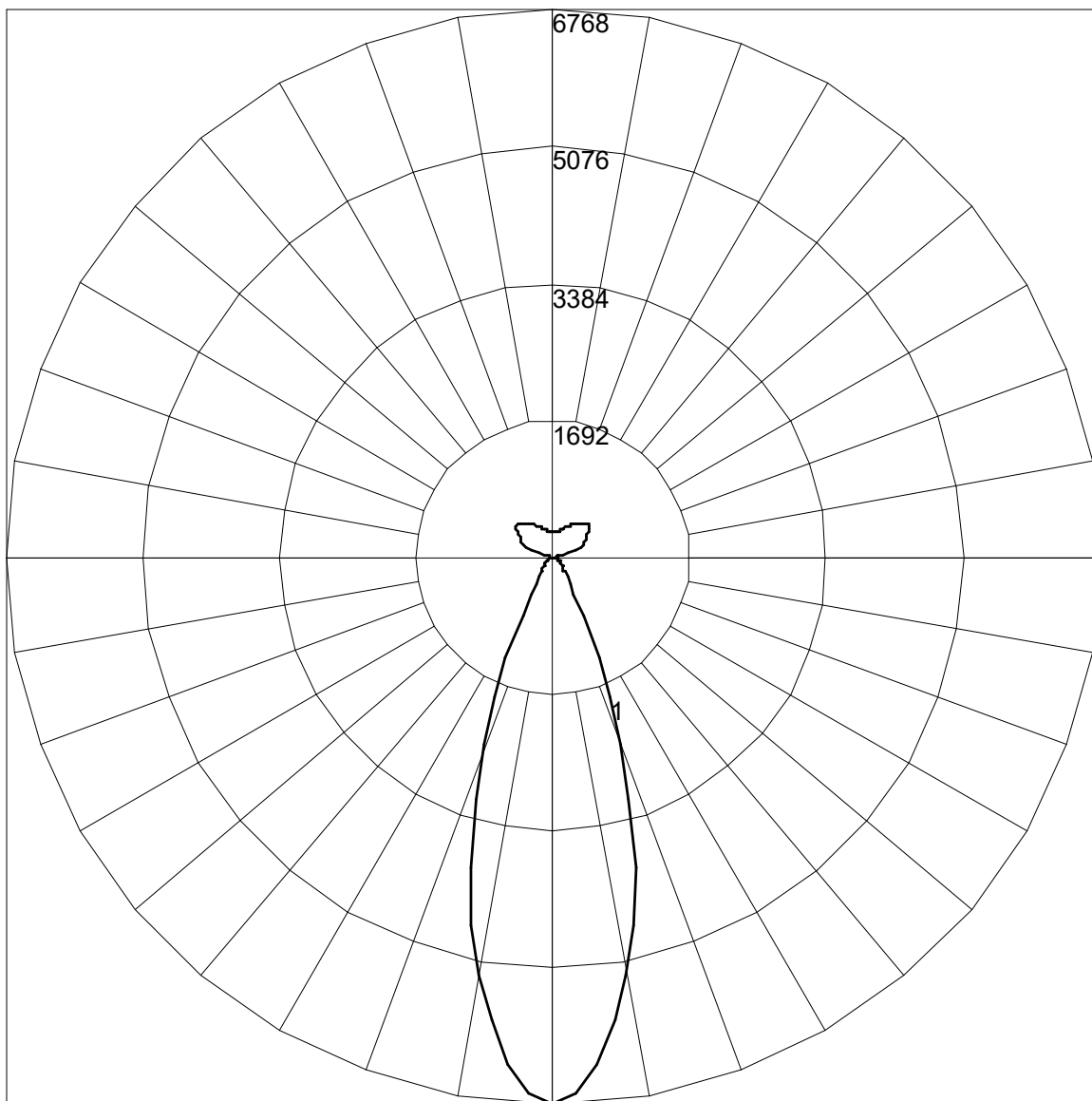
Effective Floor Cavity Reflectance 0.20

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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	67	67	67	62
1	103	100	97	94	97	94	92	89	83	81	80	73	72	71	64	63	62	58
2	97	91	87	83	91	86	82	79	77	74	72	68	66	65	60	59	58	54
3	91	84	78	74	86	80	75	71	72	68	65	64	62	59	57	55	54	51
4	86	78	72	67	81	74	69	65	67	63	60	61	58	55	54	52	51	48
5	81	72	66	61	77	69	64	59	63	59	55	57	54	52	52	50	48	45
6	77	67	61	57	73	65	59	55	59	55	52	54	51	49	50	47	45	43
7	73	63	57	53	69	61	55	51	56	52	49	52	48	46	48	45	43	41
8	69	60	54	49	66	58	52	48	53	49	46	49	46	43	46	43	41	39
9	66	56	51	47	63	55	49	46	51	46	43	47	44	41	44	41	39	38
10	63	54	48	44	60	52	47	43	48	44	41	45	42	40	42	40	38	36

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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)