

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-B-835-WSO-MLW-ITL89456-KPL2008-7.013.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.013 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-S-B-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 32.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 34.4 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]3426

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3426
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	106
Total Luminaire Watts	32.4
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	2607	2547	2466
55	2172	2111	2009
65	1853	1753	1640
75	1570	1456	1315
85	1234	1115	1000

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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	4476.597	4476.597	4476.597	4476.597	4476.597
2.5	4375.121	4401.457	4381.402	4385.029	4393.482
5.0	4127.710	4157.916	4151.387	4155.014	4167.336
7.5	3735.041	3784.066	3799.408	3832.679	3831.300
10.0	3191.992	3294.828	3404.855	3468.209	3476.708
12.5	2606.520	2714.546	2957.244	3066.139	3089.358
15.0	2123.774	2237.820	2477.740	2642.812	2636.962
17.5	1653.305	1778.731	2027.129	2140.639	2073.905
20.0	1153.843	1326.263	1584.107	1652.075	1624.411
22.5	776.058	968.845	1193.371	1266.510	1231.644
25.0	523.719	624.280	906.289	958.041	914.166
27.5	375.815	417.133	599.971	599.538	537.250
30.0	274.364	315.821	383.342	377.364	348.223
32.5	209.169	238.124	270.408	260.149	256.671
35.0	174.580	185.698	203.473	201.158	194.799
37.5	159.114	160.694	168.447	163.225	154.340
40.0	145.702	147.004	145.043	139.189	136.369
42.5	133.576	134.589	129.959	126.136	126.028
45.0	121.413	122.766	118.640	115.738	114.874
47.5	106.406	111.684	107.965	105.804	104.116
50.0	99.851	100.942	98.508	96.811	96.286
52.5	91.136	91.681	88.754	86.032	85.049
55.0	82.070	82.441	79.745	77.708	75.907
57.5	73.597	73.762	71.055	68.678	67.634
60.0	65.581	65.844	63.153	60.894	59.881
62.5	58.507	58.234	55.708	53.666	52.441
65.0	51.577	51.243	48.799	46.787	45.655
67.5	44.575	44.626	42.208	40.397	39.163
70.0	38.309	38.185	36.096	34.362	33.102
72.5	32.011	32.083	30.272	28.636	27.484
75.0	26.764	26.491	24.819	23.450	22.421
77.5	21.320	20.811	19.710	18.593	17.775
80.0	16.515	16.114	15.013	14.040	13.608
82.5	11.509	11.375	10.495	9.924	9.384
85.0	7.084	6.801	6.400	5.968	5.742
87.5	2.891	2.953	2.655	2.480	2.356
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-B-835-WSO-MLW-ITL89456-KPL2008-7.013.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	1032.61	N.A.	30.10
0-30	1404.1	N.A.	41.00
0-40	1535.45	N.A.	44.80
0-60	1698.94	N.A.	49.60
0-80	1773.98	N.A.	51.80
0-90	1781.36	N.A.	52.00
10-90	1410.00	N.A.	41.20
20-40	502.83	N.A.	14.70
20-50	594.80	N.A.	17.40
40-70	212.09	N.A.	6.20
60-80	75.03	N.A.	2.20
70-80	26.44	N.A.	0.80
80-90	7.39	N.A.	0.20
90-110	215.23	N.A.	6.30
90-120	499.21	N.A.	14.60
90-130	823.81	N.A.	24.00
90-150	1361.33	N.A.	39.70
90-180	1644.71	N.A.	48.00
110-180	1429.48	N.A.	41.70
0-180	3426.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	371.36
10-20	661.25
20-30	371.48
30-40	131.35
40-50	91.97
50-60	71.53
60-70	48.60
70-80	26.44
80-90	7.39
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

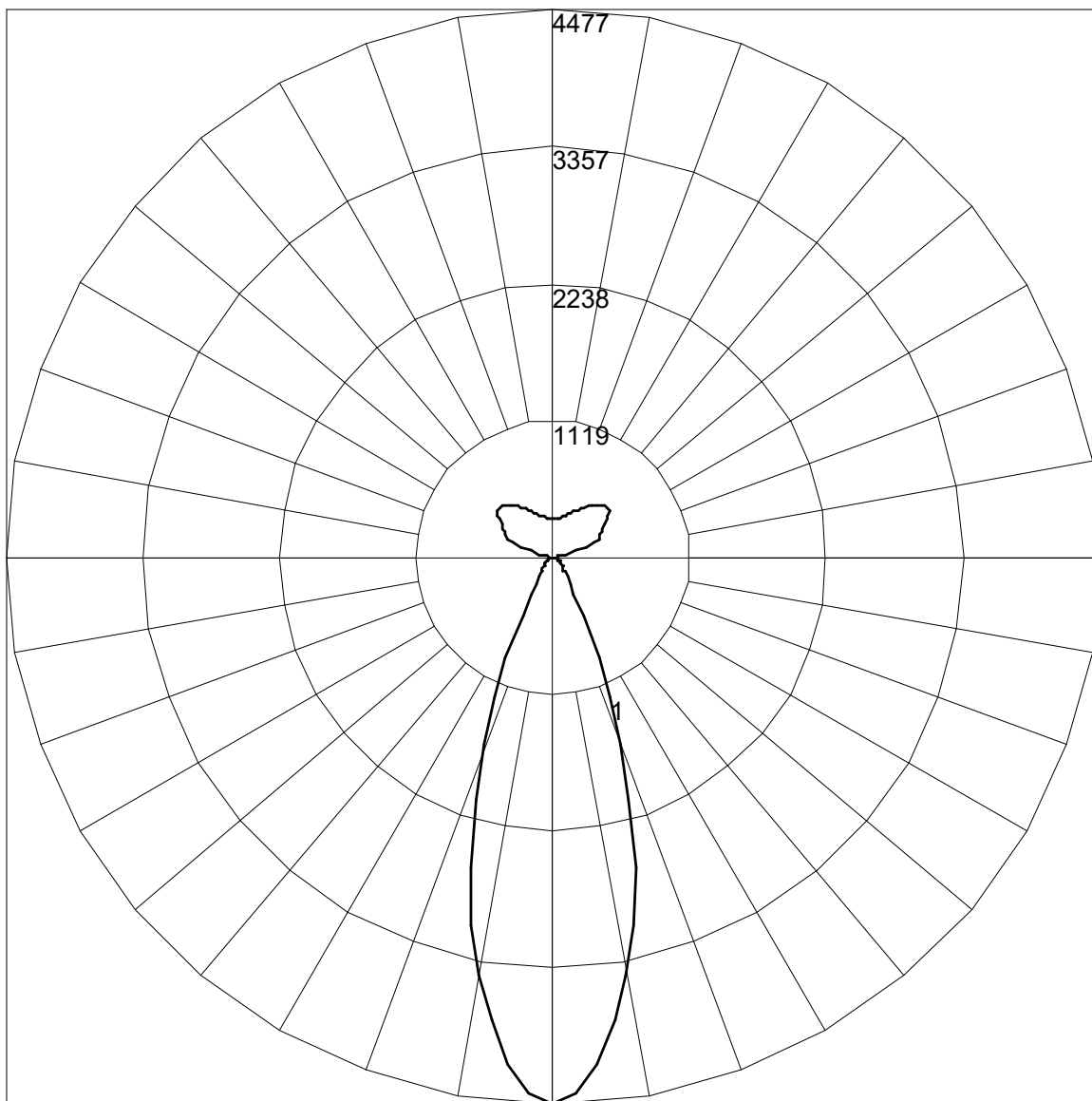
Effective Floor Cavity Reflectance 0.20

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	108	108	108	108	100	100	100	100	84	84	84	71	71	71	58	58	58	52
1	101	97	94	91	93	90	88	85	77	76	74	66	65	63	55	54	53	48
2	94	88	83	79	87	82	78	75	71	68	66	61	59	58	52	51	50	45
3	88	81	75	70	82	76	71	67	66	62	60	57	55	53	49	48	46	42
4	83	74	68	63	77	70	64	60	61	57	54	54	51	49	47	45	43	40
5	78	68	62	57	73	65	59	55	57	53	50	51	48	45	44	42	41	38
6	73	64	57	53	69	60	55	51	54	50	46	48	45	42	42	40	39	36
7	69	59	53	49	65	56	51	47	51	47	43	46	42	40	41	38	37	34
8	66	56	50	45	62	53	48	44	48	44	41	43	40	38	39	37	35	33
9	62	53	46	42	59	50	45	41	46	41	38	41	38	36	37	35	33	32
10	59	50	44	40	56	47	42	39	43	39	36	40	36	34	36	34	32	30

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POLAR GRAPH



Maximum Candela = 4476.597 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)