

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-B-835-WSO-MLW-ITL89456-KPL2008-7.008.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.008 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP2ID-4ft-H-B-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 46.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 46.8 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]4907

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	4906
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	107
Total Luminaire Watts	46
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	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	14.000	24.111	24.111	23.333	23.333
95.0	36.556	64.556	64.556	53.667	52.889
97.5	61.444	105.778	129.889	93.333	87.889
100.0	87.111	137.667	258.222	150.111	132.222
102.5	115.111	168.000	357.000	265.222	210.778
105.0	142.333	200.667	413.778	432.445	356.222
107.5	169.556	232.556	448.778	583.333	543.667
110.0	196.778	262.111	479.889	672.000	679.000
112.5	224.000	290.889	516.444	730.333	759.889
115.0	252.000	318.111	560.000	772.333	815.111
117.5	280.000	345.333	607.444	812.000	857.889
120.0	308.000	374.111	646.333	854.000	900.667
122.5	333.667	398.222	674.333	913.111	945.778
125.0	357.778	421.555	689.889	977.667	1010.333
127.5	380.333	443.333	699.222	1021.222	1081.889
130.0	399.000	462.000	704.667	1039.111	1133.222
132.5	417.667	479.111	706.222	1032.111	1149.555

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-WSO-MLW-ITL89456-KPL2008-7.008.IES****CANDELA TABULATION - (Cont.)**

135.0	434.000	493.111	705.444	1010.333	1133.222
137.5	448.778	506.333	703.111	980.778	1099.000
140.0	463.555	518.000	699.222	948.111	1055.445
142.5	477.555	528.889	693.778	911.556	1008.778
145.0	492.333	539.000	688.333	876.556	961.333
147.5	504.778	546.778	682.111	840.778	913.111
150.0	517.222	555.333	674.333	808.889	868.000
152.5	528.889	561.556	665.000	778.556	826.000
155.0	539.778	566.222	655.667	749.000	787.111
157.5	549.889	572.444	647.111	721.778	752.111
160.0	558.444	576.333	637.000	695.333	719.444
162.5	566.222	579.444	626.889	672.778	689.111
165.0	572.444	582.556	616.778	651.000	663.444
167.5	577.889	584.889	609.000	632.333	640.889
170.0	582.556	587.222	603.556	617.556	623.000
172.5	584.889	588.778	597.333	605.111	609.778
175.0	588.000	589.556	593.444	597.333	598.889
177.5	589.556	589.556	591.111	591.111	591.889
180.0	590.333	590.333	590.333	590.333	590.333

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-H-B-835-WSO-MLW-ITL89456-KPL2008-7.008.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1032.61	N.A.	21.00
0-30	1404.1	N.A.	28.60
0-40	1535.45	N.A.	31.30
0-60	1698.94	N.A.	34.60
0-80	1773.98	N.A.	36.20
0-90	1781.36	N.A.	36.30
10-90	1410.00	N.A.	28.70
20-40	502.83	N.A.	10.20
20-50	594.80	N.A.	12.10
40-70	212.09	N.A.	4.30
60-80	75.03	N.A.	1.50
70-80	26.44	N.A.	0.50
80-90	7.39	N.A.	0.20
90-110	408.95	N.A.	8.30
90-120	948.49	N.A.	19.30
90-130	1565.25	N.A.	31.90
90-150	2586.53	N.A.	52.70
90-180	3124.96	N.A.	63.70
110-180	2716.01	N.A.	55.40
0-180	4906.32	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	71.33
100-110	337.61
110-120	539.54
120-130	616.76
130-140	576.44
140-150	444.84
150-160	305.78
160-170	175.72
170-180	56.93

IES INDOOR REPORT

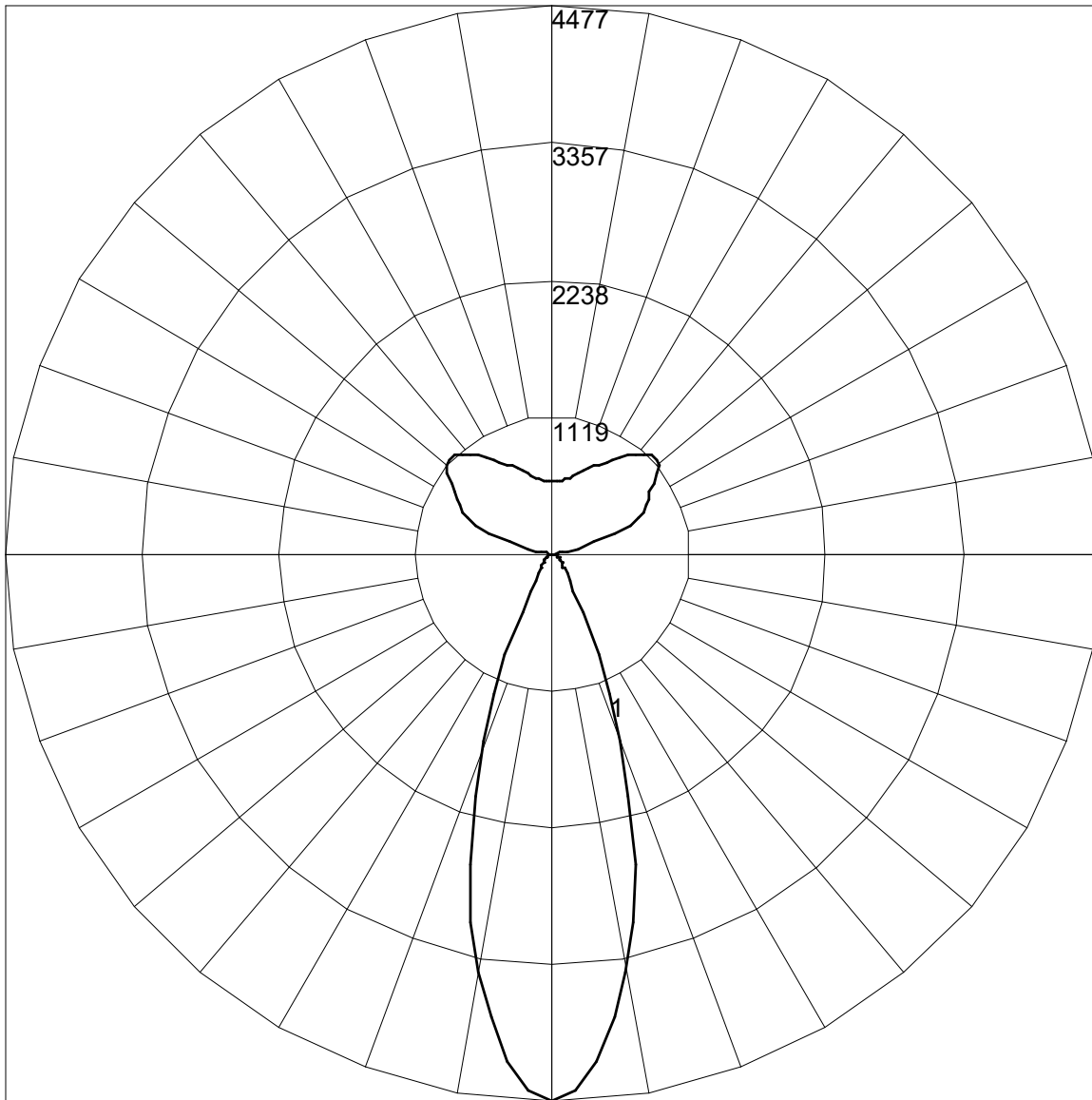
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	104	104	104	104	94	94	94	94	76	76	76	59	59	59	44	44	44	36
1	96	93	90	87	87	84	82	79	69	67	65	54	53	52	41	40	40	34
2	89	83	78	74	81	76	72	68	63	60	57	50	48	47	39	38	37	32
3	83	75	69	65	76	69	64	60	57	54	51	46	44	42	36	35	34	30
4	77	68	62	57	70	63	58	53	53	49	46	43	41	39	34	33	32	28
5	72	63	56	51	66	58	52	48	49	45	42	40	38	36	33	31	30	26
6	68	58	51	46	62	53	48	43	45	41	38	38	35	33	31	29	28	25
7	64	53	47	42	58	50	44	40	43	38	35	36	33	31	30	28	27	24
8	60	50	43	39	55	46	41	37	40	36	33	34	31	29	28	27	25	23
9	57	46	40	36	52	43	38	34	38	34	31	32	29	27	27	25	24	22
10	54	43	37	33	49	41	35	32	36	32	29	31	28	26	26	24	23	21

POLAR GRAPH



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