

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-B-B-8TW-WSO-MLB-ITL89456-KPL2008-6.902.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.902 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUEDATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP-2-ID-4ft-B-B-8TW-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 41.8 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 41.8 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-6. 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
[ABSOLUTE LUMENS]3332

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3332
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	80
Total Luminaire Watts	41.8
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	194	115	120
55	86	45	51
65	42	22	25
75	22	13	12
85	8	4	4

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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	4025.634	4025.634	4025.634	4025.634	4025.634
2.5	3924.022	3959.529	3942.733	3938.179	3954.728
5.0	3698.499	3750.062	3725.372	3723.931	3745.719
7.5	3357.537	3421.137	3422.505	3427.111	3442.276
10.0	2918.879	2973.941	3068.396	3092.504	3095.839
12.5	2342.129	2431.113	2653.393	2731.102	2736.259
15.0	1882.264	1977.320	2215.023	2374.975	2341.938
17.5	1415.776	1548.398	1880.921	1923.818	1817.965
20.0	957.445	1101.084	1396.057	1445.551	1415.102
22.5	596.521	768.490	1025.294	1087.478	1072.699
25.0	351.233	423.658	703.331	765.901	679.053
27.5	208.793	272.979	418.779	425.845	378.764
30.0	118.327	158.208	248.988	237.049	208.474
32.5	58.330	90.441	127.847	123.318	115.975
35.0	27.541	39.279	68.771	69.352	58.000
37.5	18.397	19.040	34.324	33.629	21.490
40.0	14.671	13.256	16.750	13.647	9.232
42.5	11.517	10.415	8.105	6.592	7.246
45.0	9.021	8.043	5.362	5.048	5.594
47.5	7.122	6.093	3.973	3.818	4.292
50.0	5.357	4.642	2.974	2.882	3.304
52.5	4.184	3.525	2.249	2.223	2.516
55.0	3.242	2.707	1.708	1.683	1.919
57.5	2.496	2.074	1.307	1.281	1.467
60.0	1.919	1.611	1.019	0.998	1.142
62.5	1.497	1.230	0.787	0.772	0.890
65.0	1.163	0.957	0.618	0.602	0.700
67.5	0.901	0.736	0.484	0.468	0.530
70.0	0.690	0.566	0.381	0.365	0.412
72.5	0.520	0.427	0.288	0.278	0.298
75.0	0.376	0.314	0.216	0.211	0.211
77.5	0.268	0.226	0.165	0.160	0.165
80.0	0.175	0.160	0.113	0.108	0.098
82.5	0.113	0.093	0.067	0.057	0.057
85.0	0.046	0.041	0.021	0.026	0.021
87.5	0.010	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	9.263	15.953	15.953	15.438	15.438
95.0	24.186	42.712	42.712	35.507	34.993
97.5	40.653	69.985	85.938	61.752	58.150
100.0	57.635	91.084	170.846	99.317	87.482
102.5	76.160	111.153	236.200	175.478	139.456
105.0	94.171	132.766	273.766	286.116	235.686
107.5	112.182	153.865	296.923	385.948	359.704
110.0	130.193	173.419	317.507	444.612	449.244
112.5	148.204	192.459	341.693	483.207	502.762
115.0	166.730	210.470	370.510	510.995	539.298
117.5	185.255	228.481	401.901	537.240	567.601
120.0	203.781	247.521	427.631	565.028	595.904
122.5	220.762	263.474	446.156	604.137	625.751
125.0	236.715	278.912	456.448	646.849	668.462
127.5	251.638	293.321	462.623	675.666	715.805
130.0	263.989	305.671	466.225	687.502	749.769
132.5	276.339	316.992	467.255	682.871	760.575

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-WSO-MLB-ITL89456-KPL2008-6.902.IES****CANDELA TABULATION - (Cont.)**

135.0	287.145	326.255	466.740	668.462	749.769
137.5	296.923	335.003	465.196	648.907	727.126
140.0	306.700	342.722	462.623	627.294	698.309
142.5	315.963	349.926	459.021	603.108	667.433
145.0	325.740	356.616	455.419	579.951	636.042
147.5	333.974	361.762	451.302	556.280	604.137
150.0	342.207	367.423	446.156	535.181	574.291
152.5	349.926	371.539	439.981	515.112	546.503
155.0	357.131	374.627	433.806	495.557	520.773
157.5	363.820	378.744	428.145	477.546	497.616
160.0	369.481	381.317	421.455	460.050	476.003
162.5	374.627	383.375	414.766	445.127	455.933
165.0	378.744	385.434	408.076	430.718	438.952
167.5	382.346	386.977	402.930	418.368	424.028
170.0	385.434	388.521	399.328	408.590	412.193
172.5	386.977	389.550	395.211	400.357	403.444
175.0	389.036	390.065	392.638	395.211	396.240
177.5	390.065	390.065	391.094	391.094	391.609
180.0	390.579	390.579	390.579	390.579	390.579

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-8TW-WSO-MLB-ITL89456-KPL2008-6.902.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	922.61	N.A.	27.70
0-30	1211.43	N.A.	36.40
0-40	1255.88	N.A.	37.70
0-60	1263.39	N.A.	37.90
0-80	1264.48	N.A.	37.90
0-90	1264.53	N.A.	38.00
10-90	930.67	N.A.	27.90
20-40	333.27	N.A.	10.00
20-50	338.74	N.A.	10.20
40-70	8.31	N.A.	0.20
60-80	1.09	N.A.	0.00
70-80	0.29	N.A.	0.00
80-90	0.05	N.A.	0.00
90-110	270.57	N.A.	8.10
90-120	627.55	N.A.	18.80
90-130	1035.61	N.A.	31.10
90-150	1711.31	N.A.	51.40
90-180	2067.55	N.A.	62.00
110-180	1796.98	N.A.	53.90
0-180	3332.08	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	333.86
10-20	588.75
20-30	288.82
30-40	44.45
40-50	5.47
50-60	2.04
60-70	0.80
70-80	0.29
80-90	0.05
90-100	47.20
100-110	223.37
110-120	356.98
120-130	408.06
130-140	381.39
140-150	294.32
150-160	202.31
160-170	116.26
170-180	37.67

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

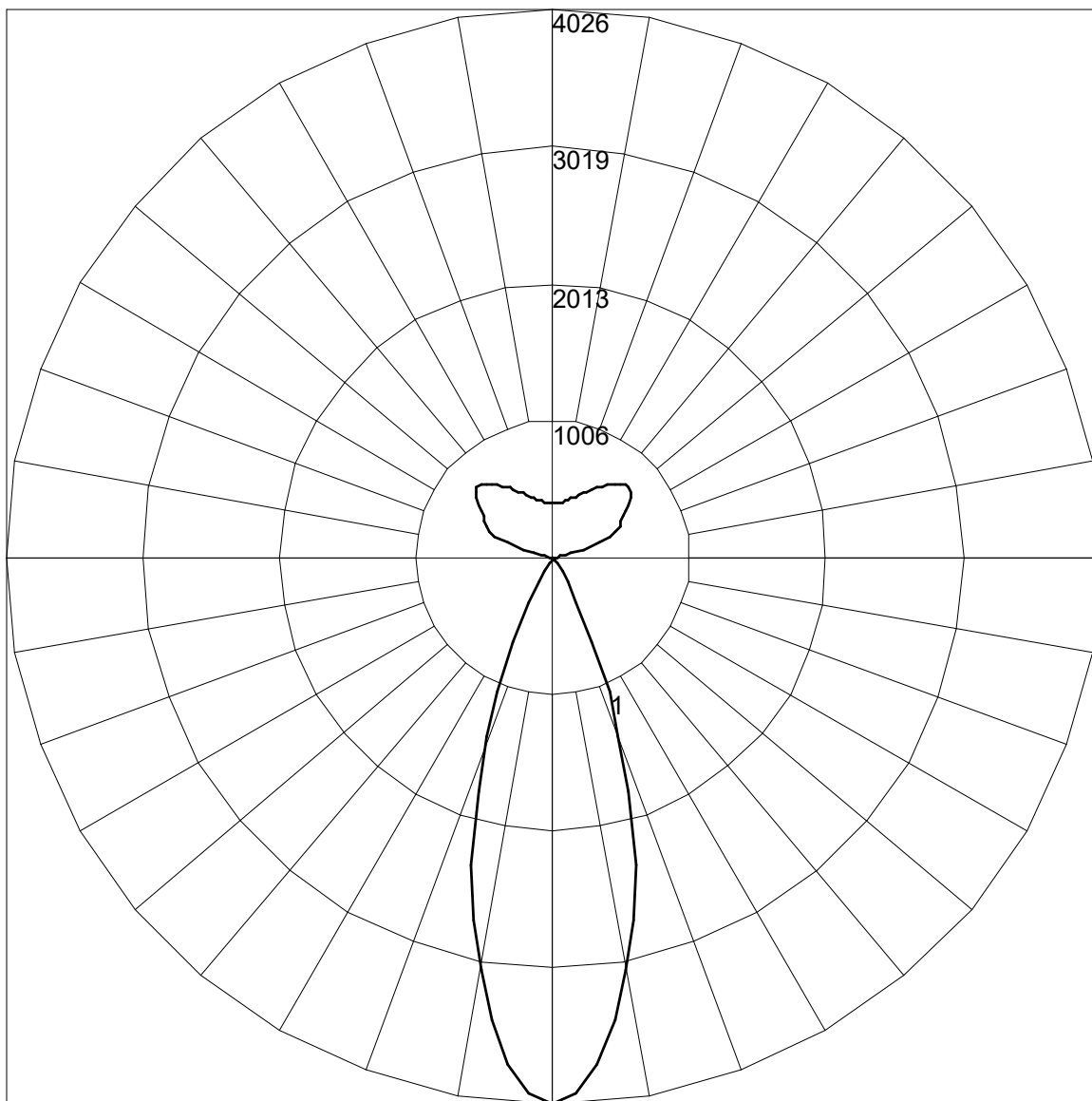
Effective Floor Cavity Reflectance 0.20

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	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	97	94	91	88	88	86	83	81	70	69	67	56	55	55	43	43	42	36
2	91	85	81	77	83	78	74	71	65	62	60	53	51	50	42	41	40	35
3	85	78	72	68	78	72	67	63	60	57	55	50	48	46	40	39	38	34
4	80	72	66	61	73	66	61	57	56	53	50	47	45	43	38	37	36	32
5	75	66	60	55	69	61	56	52	53	49	46	44	42	40	37	35	34	31
6	71	61	55	51	65	57	52	48	49	46	43	42	40	38	35	34	33	30
7	67	57	51	47	62	54	48	44	47	43	40	40	38	36	34	33	32	29
8	63	54	48	43	59	50	45	41	44	40	38	38	36	34	33	31	30	28
9	60	50	45	41	56	48	42	39	42	38	36	37	34	32	32	30	29	27
10	57	48	42	38	53	45	40	37	40	36	34	35	33	31	31	29	28	26

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POLAR GRAPH



Maximum Candela = 4025.634 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)