

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-835-WSO-MLB-ITL89456-KPL2008-6.002.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.002 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-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 38.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 38.0 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)	88
Total Luminaire Watts	38
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	282.296	282.296	282.296	282.296	282.296
2.5	275.171	277.660	276.482	276.163	277.324
5.0	259.356	262.972	261.241	261.139	262.667
7.5	235.446	239.906	240.002	240.325	241.388
10.0	204.685	208.546	215.170	216.861	217.095
12.5	164.241	170.481	186.068	191.518	191.879
15.0	131.993	138.659	155.328	166.544	164.228
17.5	99.281	108.581	131.899	134.907	127.484
20.0	67.141	77.213	97.898	101.368	99.233
22.5	41.831	53.890	71.899	76.259	75.223
25.0	24.630	29.709	49.321	53.709	47.618
27.5	14.641	19.143	29.367	29.862	26.561
30.0	8.297	11.094	17.460	16.623	14.619
32.5	4.090	6.342	8.965	8.648	8.133
35.0	1.931	2.755	4.822	4.863	4.067
37.5	1.290	1.335	2.407	2.358	1.507
40.0	1.029	0.930	1.175	0.957	0.647
42.5	0.808	0.730	0.568	0.462	0.508
45.0	0.632	0.564	0.376	0.354	0.393
47.5	0.500	0.427	0.278	0.268	0.301
50.0	0.376	0.325	0.208	0.202	0.232
52.5	0.293	0.247	0.157	0.156	0.177
55.0	0.227	0.190	0.120	0.118	0.134
57.5	0.175	0.146	0.092	0.090	0.103
60.0	0.134	0.113	0.072	0.070	0.080
62.5	0.105	0.086	0.055	0.054	0.062
65.0	0.081	0.067	0.043	0.042	0.049
67.5	0.063	0.051	0.034	0.033	0.037
70.0	0.048	0.040	0.027	0.026	0.029
72.5	0.037	0.030	0.020	0.020	0.021
75.0	0.026	0.022	0.015	0.015	0.015
77.5	0.019	0.016	0.012	0.011	0.012
80.0	0.012	0.011	0.008	0.008	0.007
82.5	0.008	0.007	0.005	0.004	0.004
85.0	0.003	0.003	0.002	0.002	0.002
87.5	0.001	0.000	0.000	0.000	0.000
90.0	0.000	0.000	0.000	0.000	0.000
92.5	0.649	1.119	1.119	1.083	1.083
95.0	1.696	2.995	2.995	2.490	2.454
97.5	2.851	4.908	6.026	4.330	4.078
100.0	4.042	6.387	11.980	6.965	6.135
102.5	5.340	7.795	16.563	12.306	9.779
105.0	6.604	9.310	19.198	20.064	16.527
107.5	7.867	10.790	20.822	27.064	25.224
110.0	9.129	12.161	22.265	31.178	31.503
112.5	10.393	13.496	23.961	33.885	35.256
115.0	11.692	14.759	25.982	35.833	37.818
117.5	12.991	16.022	28.183	37.674	39.803
120.0	14.290	17.357	29.988	39.622	41.788
122.5	15.481	18.476	31.286	42.365	43.881
125.0	16.600	19.559	32.008	45.360	46.876
127.5	17.646	20.569	32.441	47.381	50.195
130.0	18.512	21.435	32.694	48.211	52.577
132.5	19.378	22.229	32.766	47.886	53.335

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-WSO-MLB-ITL89456-KPL2008-6.002.IES****CANDELA TABULATION - (Cont.)**

135.0	20.136	22.878	32.730	46.876	52.577
137.5	20.822	23.492	32.622	45.504	50.989
140.0	21.507	24.033	32.441	43.989	48.969
142.5	22.157	24.539	32.189	42.293	46.804
145.0	22.842	25.008	31.936	40.669	44.602
147.5	23.420	25.368	31.648	39.009	42.365
150.0	23.997	25.765	31.286	37.530	40.272
152.5	24.539	26.054	30.854	36.122	38.324
155.0	25.044	26.271	30.420	34.751	36.519
157.5	25.513	26.559	30.024	33.487	34.895
160.0	25.909	26.740	29.554	32.261	33.380
162.5	26.271	26.884	29.086	31.214	31.972
165.0	26.559	27.028	28.616	30.204	30.781
167.5	26.812	27.136	28.256	29.338	29.735
170.0	27.028	27.245	28.003	28.652	28.905
172.5	27.136	27.317	27.714	28.075	28.292
175.0	27.281	27.353	27.534	27.714	27.786
177.5	27.353	27.353	27.425	27.425	27.461
180.0	27.389	27.389	27.389	27.389	27.389

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-B-835-WSO-MLB-ITL89456-KPL2008-6.002.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

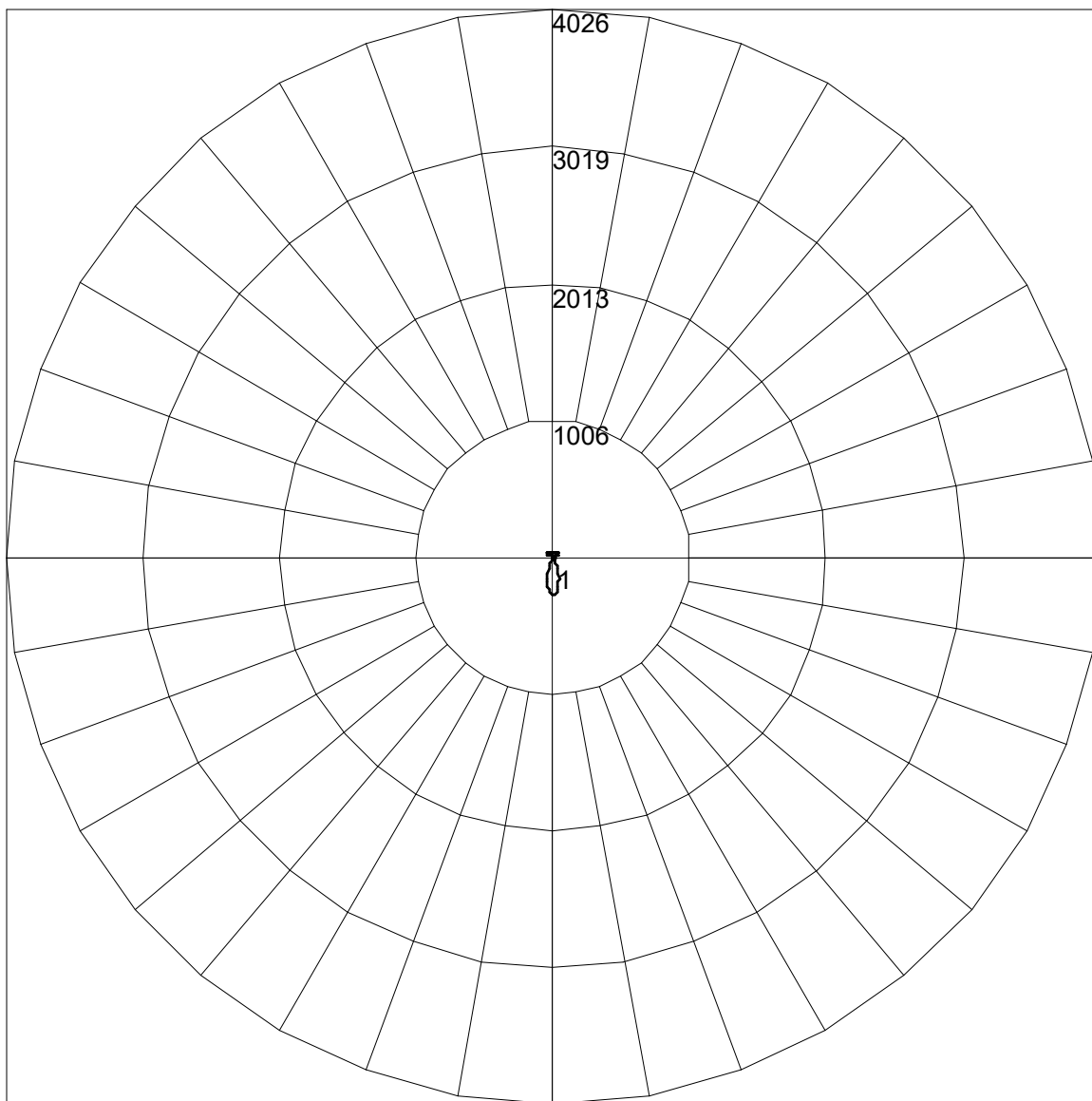
Effective Floor Cavity Reflectance 0.20

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	128	128	128	128	116	116	116	116	94	94	94	74	74	74	55	55	55	47
1	119	115	112	108	108	105	102	99	86	84	83	69	68	67	53	52	52	45
2	111	105	99	94	102	96	91	87	80	77	74	65	63	61	51	50	49	43
3	104	95	89	83	95	88	82	78	74	70	67	61	59	57	49	48	47	41
4	98	88	80	75	90	81	75	70	69	65	61	58	55	53	47	45	44	40
5	92	81	73	68	84	75	69	64	65	60	57	55	52	49	45	44	42	38
6	87	75	68	62	80	70	64	59	61	56	53	52	49	46	43	42	40	37
7	82	70	63	57	76	66	59	55	57	53	49	49	46	44	42	40	39	36
8	78	66	58	53	72	62	55	51	54	50	46	47	44	42	40	39	37	34
9	74	62	55	50	68	58	52	48	51	47	44	45	42	40	39	37	36	33
10	70	58	51	47	65	55	49	45	49	44	41	43	40	38	38	36	34	32

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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)