

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-V-B-8TW-WSO-MLW-ITL89456-KPL2008-7.905.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.905 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFAC]FINELITE, INC.
[LUMCAT]HP2ID-4ft-V-B-8TW-WSO-MLW
[OTHER]ies file is based on 3500K; see luminaire tech sheet at www.finelite.com
for lumen adjustment factors for other CCT's & CRI's
[INPUT_ELECTRICAL]120.0 VOLTS, 59.8 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 60.7 WATTS
[OTHER]see www.finelite.com for source files ITL89456 and KPL2008-7. 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]5800

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5799
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	59.8
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	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	18.000	31.000	31.000	30.000	30.000
95.0	47.000	83.000	83.000	69.000	68.000
97.5	79.000	136.000	167.000	120.000	113.000
100.0	112.000	177.000	332.000	193.000	170.000
102.5	148.000	216.000	459.000	341.000	271.000
105.0	183.000	258.000	532.000	556.000	458.000
107.5	218.000	299.000	577.000	750.000	699.000
110.0	253.000	337.000	617.000	864.000	873.000
112.5	288.000	374.000	664.000	939.000	977.000
115.0	324.000	409.000	720.000	993.000	1048.000
117.5	360.000	444.000	781.000	1044.000	1103.000
120.0	396.000	481.000	831.000	1098.000	1158.000
122.5	429.000	512.000	867.000	1174.000	1216.000
125.0	460.000	542.000	887.000	1257.000	1299.000
127.5	489.000	570.000	899.000	1313.000	1391.000
130.0	513.000	594.000	906.000	1336.000	1457.000
132.5	537.000	616.000	908.000	1327.000	1478.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-8TW-WSO-MLW-ITL89456-KPL2008-7.905.IES****CANDELA TABULATION - (Cont.)**

135.0	558.000	634.000	907.000	1299.000	1457.000
137.5	577.000	651.000	904.000	1261.000	1413.000
140.0	596.000	666.000	899.000	1219.000	1357.000
142.5	614.000	680.000	892.000	1172.000	1297.000
145.0	633.000	693.000	885.000	1127.000	1236.000
147.5	649.000	703.000	877.000	1081.000	1174.000
150.0	665.000	714.000	867.000	1040.000	1116.000
152.5	680.000	722.000	855.000	1001.000	1062.000
155.0	694.000	728.000	843.000	963.000	1012.000
157.5	707.000	736.000	832.000	928.000	967.000
160.0	718.000	741.000	819.000	894.000	925.000
162.5	728.000	745.000	806.000	865.000	886.000
165.0	736.000	749.000	793.000	837.000	853.000
167.5	743.000	752.000	783.000	813.000	824.000
170.0	749.000	755.000	776.000	794.000	801.000
172.5	752.000	757.000	768.000	778.000	784.000
175.0	756.000	758.000	763.000	768.000	770.000
177.5	758.000	758.000	760.000	760.000	761.000
180.0	759.000	759.000	759.000	759.000	759.000

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-V-B-8TW-WSO-MLW-ITL89456-KPL2008-7.905.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1032.61	N.A.	17.80
0-30	1404.1	N.A.	24.20
0-40	1535.45	N.A.	26.50
0-60	1698.94	N.A.	29.30
0-80	1773.98	N.A.	30.60
0-90	1781.36	N.A.	30.70
10-90	1410.00	N.A.	24.30
20-40	502.83	N.A.	8.70
20-50	594.80	N.A.	10.30
40-70	212.09	N.A.	3.70
60-80	75.03	N.A.	1.30
70-80	26.44	N.A.	0.50
80-90	7.39	N.A.	0.10
90-110	525.79	N.A.	9.10
90-120	1219.49	N.A.	21.00
90-130	2012.46	N.A.	34.70
90-150	3325.54	N.A.	57.30
90-180	4017.8	N.A.	69.30
110-180	3492.02	N.A.	60.20
0-180	5799.17	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	91.71
100-110	434.08
110-120	693.70
120-130	792.97
130-140	741.14
140-150	571.94
150-160	393.14
160-170	225.92
170-180	73.20

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

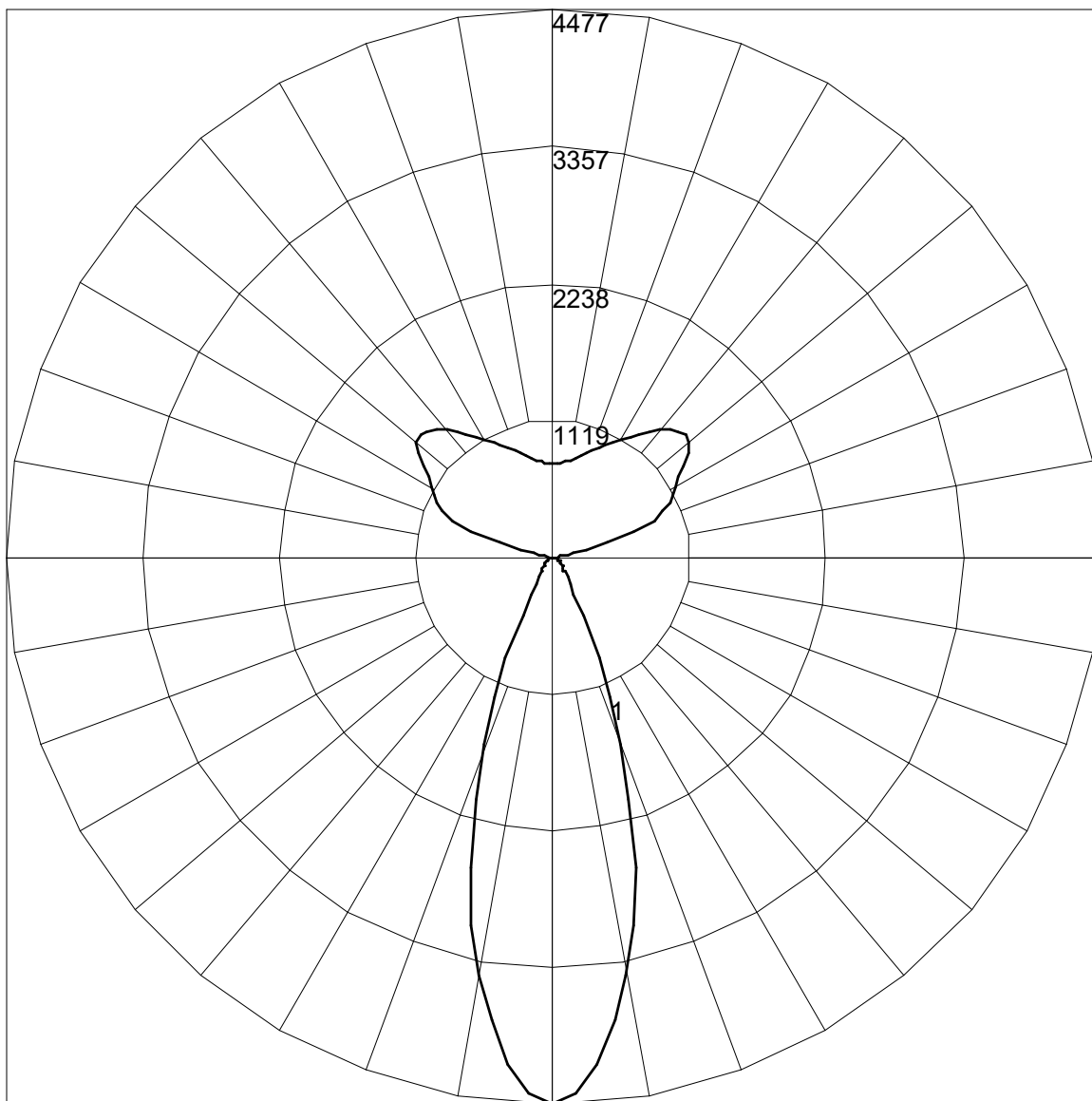
Effective Floor Cavity Reflectance 0.20

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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	38	38	38	31
1	95	91	88	85	85	82	80	77	66	64	62	50	49	48	36	36	35	29
2	88	82	76	72	79	74	70	66	59	57	54	46	44	43	34	33	32	27
3	81	73	67	62	73	67	62	58	54	51	48	43	40	39	32	31	30	25
4	76	67	60	55	68	61	55	51	50	46	43	40	37	35	30	29	28	24
5	70	61	54	49	64	56	50	45	46	42	39	37	34	32	28	27	26	22
6	66	56	49	44	60	51	45	41	42	38	35	35	32	30	27	26	24	21
7	62	51	44	40	56	47	41	37	40	35	32	32	30	28	26	24	23	20
8	58	47	41	36	53	44	38	34	37	33	30	31	28	26	25	23	22	19
9	54	44	38	33	50	41	35	32	35	31	28	29	26	24	24	22	21	19
10	52	41	35	31	47	38	33	29	33	29	26	28	25	23	23	21	20	18

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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)