

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-S-835-WSO-MLW-ITL89456-KPL2008-7.004.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.004 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-V-S-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 50.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 51.6 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]5435

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5435
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	50.4
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	2074	2027	1962
55	1728	1679	1599
65	1474	1395	1305
75	1249	1158	1046
85	982	887	796

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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	3561.620	3561.620	3561.620	3561.620	3561.620
2.5	3480.884	3501.838	3485.882	3488.768	3495.493
5.0	3284.043	3308.074	3302.880	3305.766	3315.569
7.5	2971.631	3010.636	3022.842	3049.314	3048.217
10.0	2539.577	2621.394	2708.933	2759.337	2766.099
12.5	2073.770	2159.717	2352.809	2439.448	2457.920
15.0	1689.694	1780.429	1971.311	2102.644	2097.990
17.5	1315.384	1415.174	1612.801	1703.111	1650.018
20.0	918.008	1055.186	1260.329	1314.405	1292.396
22.5	617.438	770.822	949.457	1007.647	979.907
25.0	416.675	496.683	721.052	762.226	727.318
27.5	299.002	331.875	477.342	476.998	427.441
30.0	218.286	251.270	304.990	300.234	277.050
32.5	166.416	189.453	215.139	206.977	204.210
35.0	138.897	147.743	161.885	160.043	154.984
37.5	126.593	127.850	134.018	129.863	122.794
40.0	115.922	116.957	115.398	110.740	108.496
42.5	106.274	107.080	103.396	100.355	100.269
45.0	96.597	97.674	94.391	92.082	91.395
47.5	84.657	88.857	85.897	84.178	82.836
50.0	79.442	80.310	78.374	77.023	76.606
52.5	72.508	72.942	70.613	68.448	67.666
55.0	65.296	65.591	63.446	61.825	60.392
57.5	58.554	58.685	56.532	54.641	53.810
60.0	52.177	52.386	50.245	48.448	47.642
62.5	46.549	46.332	44.322	42.697	41.723
65.0	41.035	40.769	38.825	37.224	36.324
67.5	35.464	35.505	33.581	32.140	31.158
70.0	30.479	30.380	28.718	27.339	26.336
72.5	25.468	25.526	24.085	22.783	21.866
75.0	21.293	21.076	19.746	18.657	17.838
77.5	16.963	16.557	15.681	14.793	14.142
80.0	13.139	12.820	11.944	11.171	10.827
82.5	9.157	9.050	8.350	7.896	7.466
85.0	5.636	5.411	5.092	4.748	4.568
87.5	2.300	2.349	2.112	1.973	1.875
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-S-835-WSO-MLW-ITL89456-KPL2008-7.004.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-S-835-WSO-MLW-ITL89456-KPL2008-7.004.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	821.56	N.A.	15.10
0-30	1117.11	N.A.	20.60
0-40	1221.62	N.A.	22.50
0-60	1351.69	N.A.	24.90
0-80	1411.39	N.A.	26.00
0-90	1417.27	N.A.	26.10
10-90	1121.81	N.A.	20.60
20-40	400.06	N.A.	7.40
20-50	473.23	N.A.	8.70
40-70	168.74	N.A.	3.10
60-80	59.70	N.A.	1.10
70-80	21.03	N.A.	0.40
80-90	5.88	N.A.	0.10
90-110	525.79	N.A.	9.70
90-120	1219.49	N.A.	22.40
90-130	2012.46	N.A.	37.00
90-150	3325.54	N.A.	61.20
90-180	4017.8	N.A.	73.90
110-180	3492.02	N.A.	64.20
0-180	5435.07	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	295.46
10-20	526.10
20-30	295.56
30-40	104.50
40-50	73.17
50-60	56.91
60-70	38.67
70-80	21.03
80-90	5.88
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

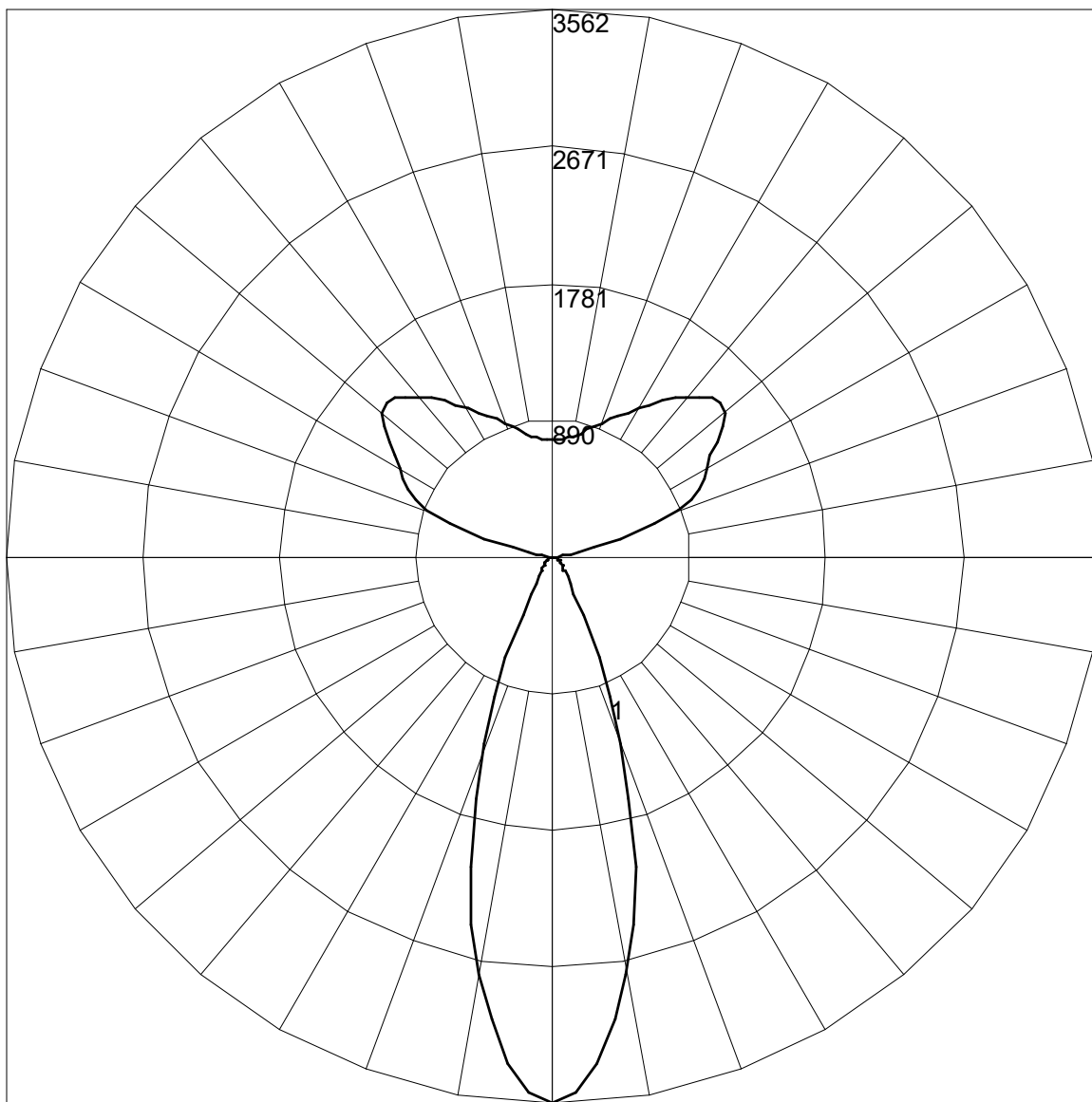
Effective Floor Cavity Reflectance 0.20

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	101	101	101	101	90	90	90	90	70	70	70	51	51	51	34	34	34	26
1	94	90	87	84	84	81	78	75	63	61	60	47	46	45	32	31	31	24
2	86	80	75	71	77	72	68	64	57	54	52	43	41	40	30	29	28	23
3	80	72	66	61	71	65	60	56	52	48	45	39	37	36	28	27	26	21
4	74	65	58	53	66	59	53	49	47	43	40	36	34	32	26	25	24	20
5	69	59	52	47	62	54	48	43	43	39	36	34	31	29	25	24	23	19
6	64	54	47	42	58	49	43	39	40	36	33	32	29	27	24	22	21	18
7	60	49	43	38	54	45	39	35	37	33	30	30	27	25	23	21	20	17
8	56	46	39	34	51	42	36	32	35	31	28	28	25	23	21	20	19	16
9	53	42	36	31	48	39	33	29	32	28	26	26	24	22	21	19	18	16
10	50	39	33	29	45	36	31	27	30	27	24	25	22	20	20	18	17	15

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POLAR GRAPH



Maximum Candela = 3561.62 Located At Horizontal Angle = 0, Vertical Angle = 0

1 - Vertical Plane Through Horizontal Angles (90 - 270)