

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-H-835-WSO-MLB-ITL89456-KPL2008-6.006.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.006 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP2ID-4ft-V-H-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 64.0 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 64.0 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]5931

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5929
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	93
Total Luminaire Watts	64
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	293	174	182
55	130	68	77
65	63	34	38
75	33	19	19
85	12	5	5

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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	6084.714	6084.714	6084.714	6084.714	6084.714
2.5	5931.128	5984.797	5959.409	5952.525	5977.540
5.0	5590.253	5668.189	5630.870	5628.692	5661.625
7.5	5074.891	5171.021	5173.090	5180.051	5202.973
10.0	4411.863	4495.088	4637.855	4674.296	4679.336
12.5	3540.109	3674.608	4010.583	4128.040	4135.833
15.0	2845.027	2988.704	3347.990	3589.757	3539.821
17.5	2139.934	2340.391	2842.997	2907.835	2747.839
20.0	1447.170	1664.280	2110.128	2184.938	2138.915
22.5	901.637	1161.566	1549.724	1643.715	1621.376
25.0	530.886	640.355	1063.080	1157.654	1026.383
27.5	315.589	412.605	632.982	643.661	572.499
30.0	178.850	239.130	376.343	358.298	315.106
32.5	88.165	136.700	193.239	186.394	175.295
35.0	41.628	59.370	103.947	104.825	87.667
37.5	27.807	28.779	51.880	50.830	32.481
40.0	22.175	20.036	25.318	20.628	13.954
42.5	17.407	15.743	12.251	9.964	10.952
45.0	13.635	12.157	8.105	7.630	8.455
47.5	10.765	9.209	6.005	5.771	6.487
50.0	8.097	7.016	4.496	4.356	4.994
52.5	6.324	5.328	3.399	3.360	3.803
55.0	4.900	4.091	2.582	2.543	2.901
57.5	3.772	3.135	1.976	1.937	2.217
60.0	2.901	2.435	1.540	1.509	1.727
62.5	2.263	1.859	1.190	1.167	1.346
65.0	1.758	1.447	0.933	0.910	1.058
67.5	1.361	1.112	0.731	0.708	0.801
70.0	1.042	0.856	0.576	0.552	0.622
72.5	0.786	0.646	0.436	0.420	0.451
75.0	0.568	0.474	0.327	0.319	0.319
77.5	0.404	0.342	0.249	0.241	0.249
80.0	0.264	0.241	0.171	0.163	0.148
82.5	0.171	0.140	0.101	0.086	0.086
85.0	0.070	0.062	0.031	0.039	0.031
87.5	0.016	0.000	0.000	0.000	0.000
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-H-835-WSO-MLB-ITL89456-KPL2008-6.006.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-H-835-WSO-MLB-ITL89456-KPL2008-6.006.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	1394.52	N.A.	23.50
0-30	1831.07	N.A.	30.90
0-40	1898.25	N.A.	32.00
0-60	1909.6	N.A.	32.20
0-80	1911.25	N.A.	32.20
0-90	1911.32	N.A.	32.20
10-90	1406.69	N.A.	23.70
20-40	503.74	N.A.	8.50
20-50	512.01	N.A.	8.60
40-70	12.56	N.A.	0.20
60-80	1.65	N.A.	0.00
70-80	0.44	N.A.	0.00
80-90	0.07	N.A.	0.00
90-110	525.79	N.A.	8.90
90-120	1219.49	N.A.	20.60
90-130	2012.46	N.A.	33.90
90-150	3325.54	N.A.	56.10
90-180	4017.8	N.A.	67.80
110-180	3492.02	N.A.	58.90
0-180	5929.12	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	504.63
10-20	889.89
20-30	436.56
30-40	67.18
40-50	8.27
50-60	3.08
60-70	1.21
70-80	0.44
80-90	0.07
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

IES INDOOR REPORT

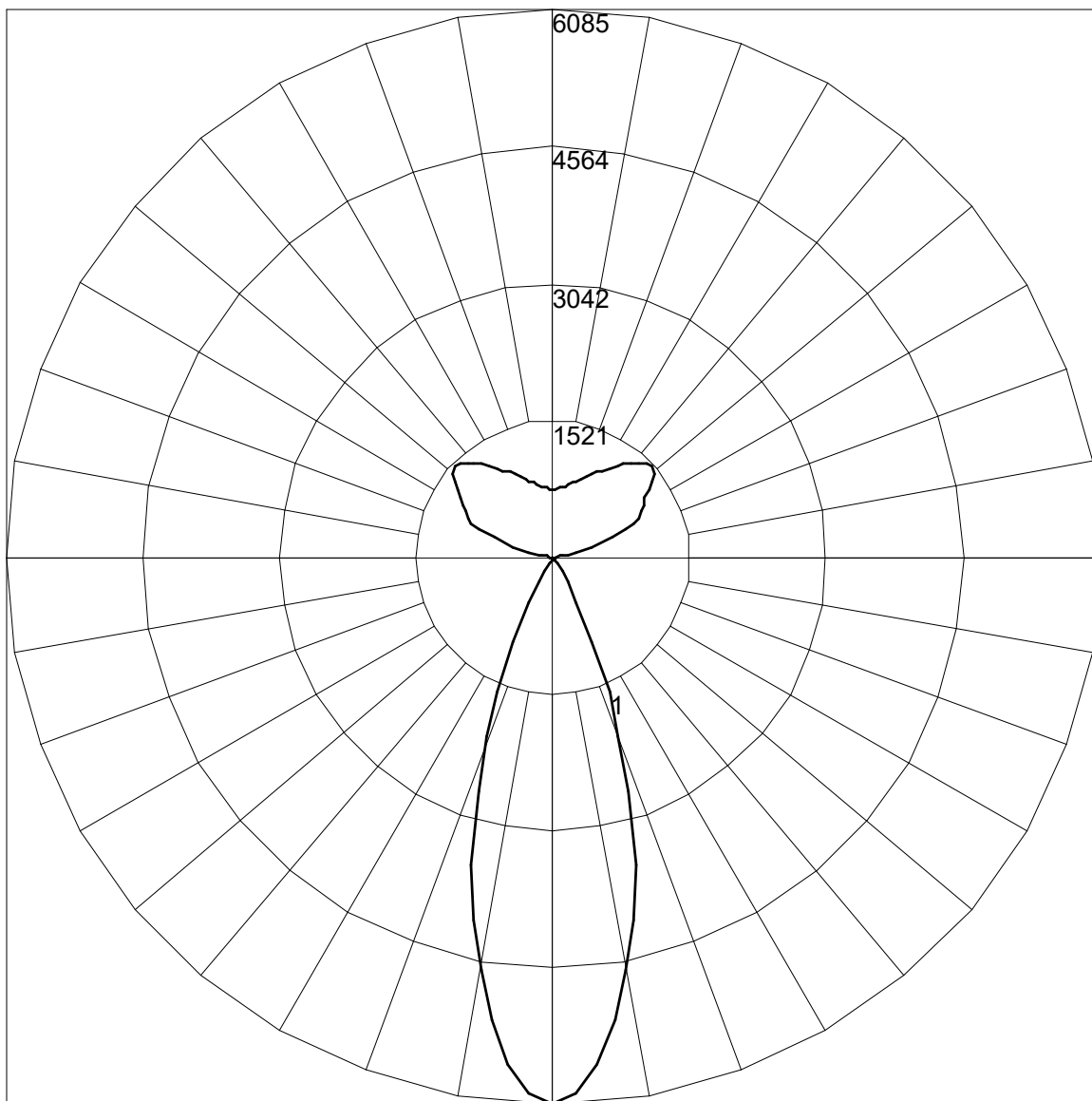
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC RW	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	103	103	103	103	93	93	93	93	73	73	73	56	56	56	40	40	40	32
1	96	92	89	86	86	84	81	79	67	65	64	52	51	50	38	38	37	31
2	89	83	79	74	80	76	72	68	62	59	57	49	47	46	36	36	35	30
3	83	76	70	65	75	69	64	61	57	54	51	45	44	42	35	34	33	29
4	78	69	63	58	70	63	58	54	53	49	46	43	41	39	33	32	31	28
5	73	64	57	52	66	59	53	49	49	45	43	40	38	36	32	31	30	27
6	68	59	52	48	62	54	49	45	46	42	39	38	36	34	31	30	29	26
7	64	55	48	44	59	51	45	41	43	39	37	36	34	32	30	28	27	25
8	61	51	45	40	56	47	42	38	41	37	34	34	32	30	29	27	26	24
9	58	48	42	38	53	45	39	36	39	35	32	33	30	29	28	26	25	23
10	55	45	39	35	50	42	37	33	37	33	30	31	29	27	27	25	24	22

POLAR GRAPH



Maximum Candela = 6084.714 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)