

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-835-WSO-MLB-ITL89456-KPL2008-6.005.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.005 Family Correlation File
[TESTLAB]INDEPENDENT TESTING LABORATORIES, INC.
[TESTDATE]07/19/17
[ISSUE DATE]02/07/23
[MANUFACTURER]FINELITE, INC.
[LUMCAT]HP2ID-4ft-V-B-835-WSO-MLB
[INPUT_ELECTRICAL]120.0 VOLTS, 54.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 55.2 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]5283

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	5282
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	97
Total Luminaire Watts	54.4
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	194	115	120
55	86	45	51
65	42	22	25
75	22	13	12
85	8	4	4

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	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>
0.0	4024.747	4024.747	4024.747	4024.747	4024.747
2.5	3923.156	3958.656	3941.863	3937.310	3953.856
5.0	3697.684	3749.235	3724.550	3723.110	3744.893
7.5	3356.797	3420.382	3421.751	3426.355	3441.517
10.0	2918.236	2973.285	3067.719	3091.823	3095.156
12.5	2341.612	2430.577	2652.808	2730.500	2735.656
15.0	1881.849	1976.884	2214.535	2374.452	2341.422
17.5	1415.464	1548.057	1880.506	1923.393	1817.564
20.0	957.234	1100.841	1395.749	1445.232	1414.790
22.5	596.390	768.320	1025.068	1087.238	1072.463
25.0	351.156	423.564	703.176	765.732	678.903
27.5	208.747	272.918	418.687	425.751	378.681
30.0	118.300	158.173	248.933	236.997	208.428
32.5	58.317	90.421	127.818	123.291	115.949
35.0	27.535	39.271	68.756	69.337	57.987
37.5	18.393	19.036	34.316	33.622	21.485
40.0	14.668	13.253	16.746	13.644	9.230
42.5	11.514	10.413	8.103	6.591	7.244
45.0	9.019	8.041	5.361	5.047	5.592
47.5	7.120	6.091	3.972	3.817	4.291
50.0	5.356	4.641	2.974	2.881	3.303
52.5	4.183	3.524	2.248	2.223	2.516
55.0	3.241	2.706	1.708	1.682	1.919
57.5	2.495	2.073	1.307	1.281	1.466
60.0	1.919	1.610	1.019	0.998	1.142
62.5	1.497	1.230	0.787	0.772	0.890
65.0	1.163	0.957	0.617	0.602	0.700
67.5	0.900	0.736	0.484	0.468	0.530
70.0	0.689	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	0.159	0.165
80.0	0.175	0.159	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	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-835-WSO-MLB-ITL89456-KPL2008-6.005.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

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Zone	Lumens	%Lamp	%Fixt
0-20	922.40	N.A.	17.50
0-30	1211.17	N.A.	22.90
0-40	1255.6	N.A.	23.80
0-60	1263.11	N.A.	23.90
0-80	1264.2	N.A.	23.90
0-90	1264.25	N.A.	23.90
10-90	930.46	N.A.	17.60
20-40	333.20	N.A.	6.30
20-50	338.67	N.A.	6.40
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	525.79	N.A.	10.00
90-120	1219.49	N.A.	23.10
90-130	2012.46	N.A.	38.10
90-150	3325.54	N.A.	63.00
90-180	4017.8	N.A.	76.10
110-180	3492.02	N.A.	66.10
0-180	5282.05	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	333.79
10-20	588.62
20-30	288.76
30-40	44.44
40-50	5.47
50-60	2.03
60-70	0.80
70-80	0.29
80-90	0.05
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

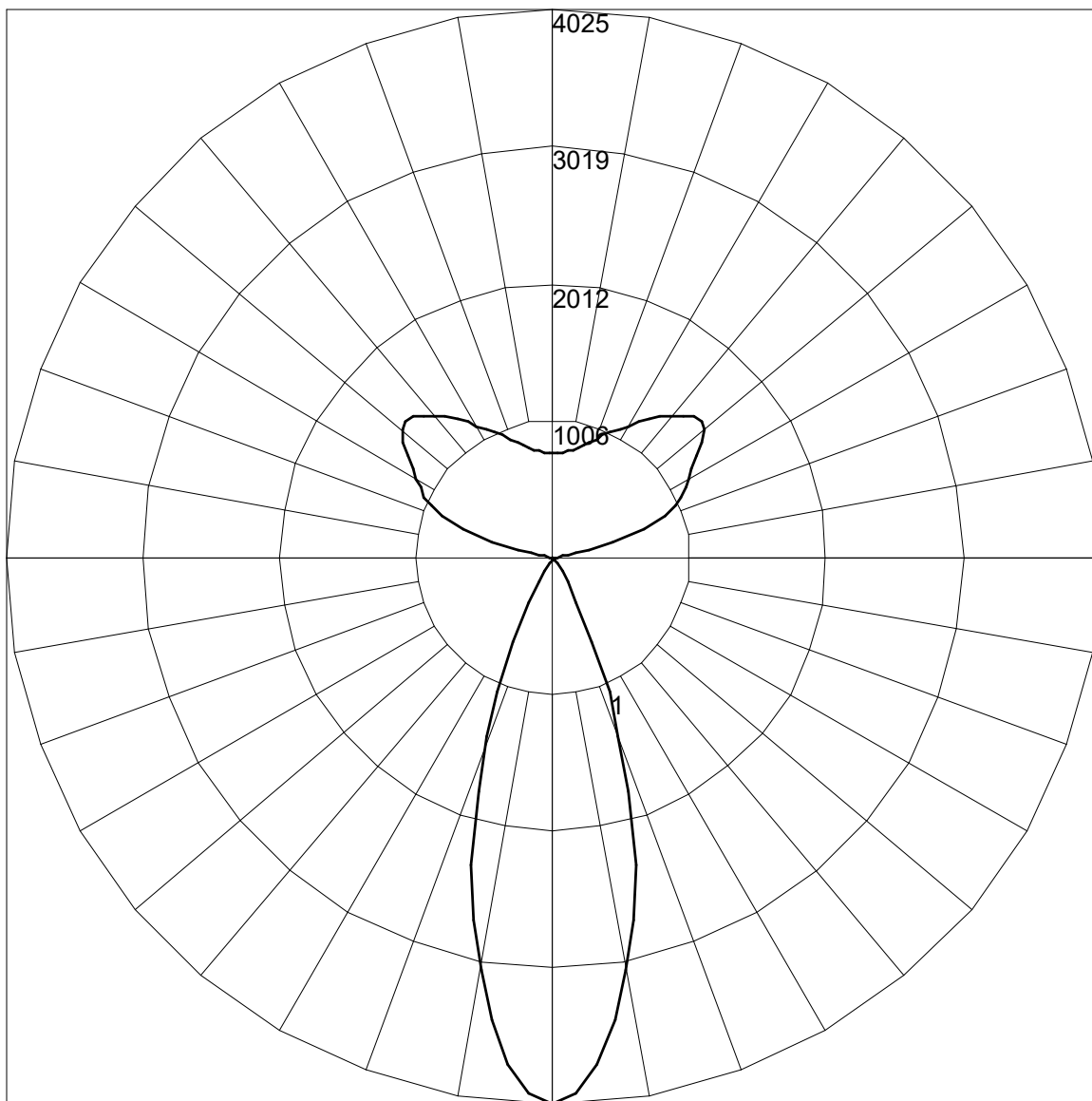
Effective Floor Cavity Reflectance 0.20

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	69	69	69	50	50	50	32	32	32	24
1	93	90	87	84	83	80	78	75	62	61	59	46	45	44	31	30	30	23
2	86	80	75	71	77	72	68	65	57	54	52	42	41	40	29	28	28	22
3	80	72	66	62	72	65	60	56	52	49	46	39	37	36	28	27	26	21
4	74	66	59	54	67	59	54	50	48	44	41	37	35	33	26	25	25	20
5	69	60	53	48	62	54	49	45	44	40	37	34	32	30	25	24	23	20
6	65	55	48	43	58	50	44	40	41	37	34	32	30	28	24	23	22	19
7	61	51	44	39	55	46	41	37	38	34	31	30	28	26	23	22	21	18
8	57	47	40	36	52	43	37	34	36	32	29	29	26	25	22	21	20	18
9	54	44	37	33	49	40	35	31	34	30	27	27	25	23	21	20	19	17
10	51	41	35	31	46	38	32	29	32	28	25	26	24	22	21	19	18	17

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POLAR GRAPH



Maximum Candela = 4024.747 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)