

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-S-835-WSO-MLW-ITL89456-KPL2008-7.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-7.010 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-S-835-WSO-MLW
[INPUT_ELECTRICAL]120.0 VOLTS, 32.4 WATTS
[INPUT_ELECTRICAL]277.0 VOLTS, 34.4 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]3485

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3485
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	108
Total Luminaire Watts	32.4
Ballast Factor	1.00
CIE Type	General Diffuse
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	9.263	15.953	15.953	15.439	15.439
95.0	24.187	42.714	42.714	35.509	34.994
97.5	40.655	69.988	85.942	61.754	58.152
100.0	57.637	91.088	170.854	99.322	87.485
102.5	76.164	111.158	236.210	175.485	139.462
105.0	94.175	132.772	273.778	286.129	235.696
107.5	112.187	153.871	296.936	385.965	359.719
110.0	130.199	173.427	317.521	444.632	449.263
112.5	148.210	192.468	341.708	483.228	502.784
115.0	166.737	210.480	370.526	511.017	539.322
117.5	185.263	228.491	401.918	537.263	567.626
120.0	203.790	247.532	427.649	565.053	595.930
122.5	220.772	263.485	446.175	604.164	625.778
125.0	236.725	278.924	456.468	646.877	668.491
127.5	251.649	293.333	462.643	675.696	715.836
130.0	264.000	305.684	466.246	687.532	749.801
132.5	276.351	317.006	467.275	682.901	760.608

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-WSO-MLW-ITL89456-KPL2008-7.010.IES****CANDELA TABULATION - (Cont.)**

135.0	287.158	326.269	466.760	668.491	749.801
137.5	296.936	335.017	465.216	648.936	727.158
140.0	306.714	342.737	462.643	627.322	698.339
142.5	315.977	349.942	459.041	603.135	667.462
145.0	325.754	356.632	455.439	579.977	636.070
147.5	333.988	361.778	451.322	556.304	604.164
150.0	342.222	367.439	446.175	535.205	574.316
152.5	349.942	371.556	440.000	515.135	546.526
155.0	357.146	374.643	433.825	495.579	520.795
157.5	363.836	378.760	428.164	477.567	497.637
160.0	369.497	381.333	421.474	460.070	476.023
162.5	374.643	383.392	414.784	445.146	455.953
165.0	378.760	385.450	408.094	430.737	438.971
167.5	382.363	386.994	402.947	418.386	424.047
170.0	385.450	388.538	399.345	408.608	412.211
172.5	386.994	389.567	395.228	400.374	403.462
175.0	389.053	390.082	392.655	395.228	396.257
177.5	390.082	390.082	391.111	391.111	391.626
180.0	390.596	390.596	390.596	390.596	390.596

IES INDOOR REPORT**PHOTOMETRIC FILENAME : HP-2-ID-4FT-B-S-835-WSO-MLW-ITL89456-KPL2008-7.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	821.56	N.A.	23.60
0-30	1117.11	N.A.	32.10
0-40	1221.62	N.A.	35.10
0-60	1351.69	N.A.	38.80
0-80	1411.39	N.A.	40.50
0-90	1417.27	N.A.	40.70
10-90	1121.81	N.A.	32.20
20-40	400.06	N.A.	11.50
20-50	473.23	N.A.	13.60
40-70	168.74	N.A.	4.80
60-80	59.70	N.A.	1.70
70-80	21.03	N.A.	0.60
80-90	5.88	N.A.	0.20
90-110	270.58	N.A.	7.80
90-120	627.57	N.A.	18.00
90-130	1035.65	N.A.	29.70
90-150	1711.39	N.A.	49.10
90-180	2067.64	N.A.	59.30
110-180	1797.06	N.A.	51.60
0-180	3484.91	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	47.20
100-110	223.38
110-120	356.99
120-130	408.08
130-140	381.40
140-150	294.33
150-160	202.32
160-170	116.27
170-180	37.67

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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

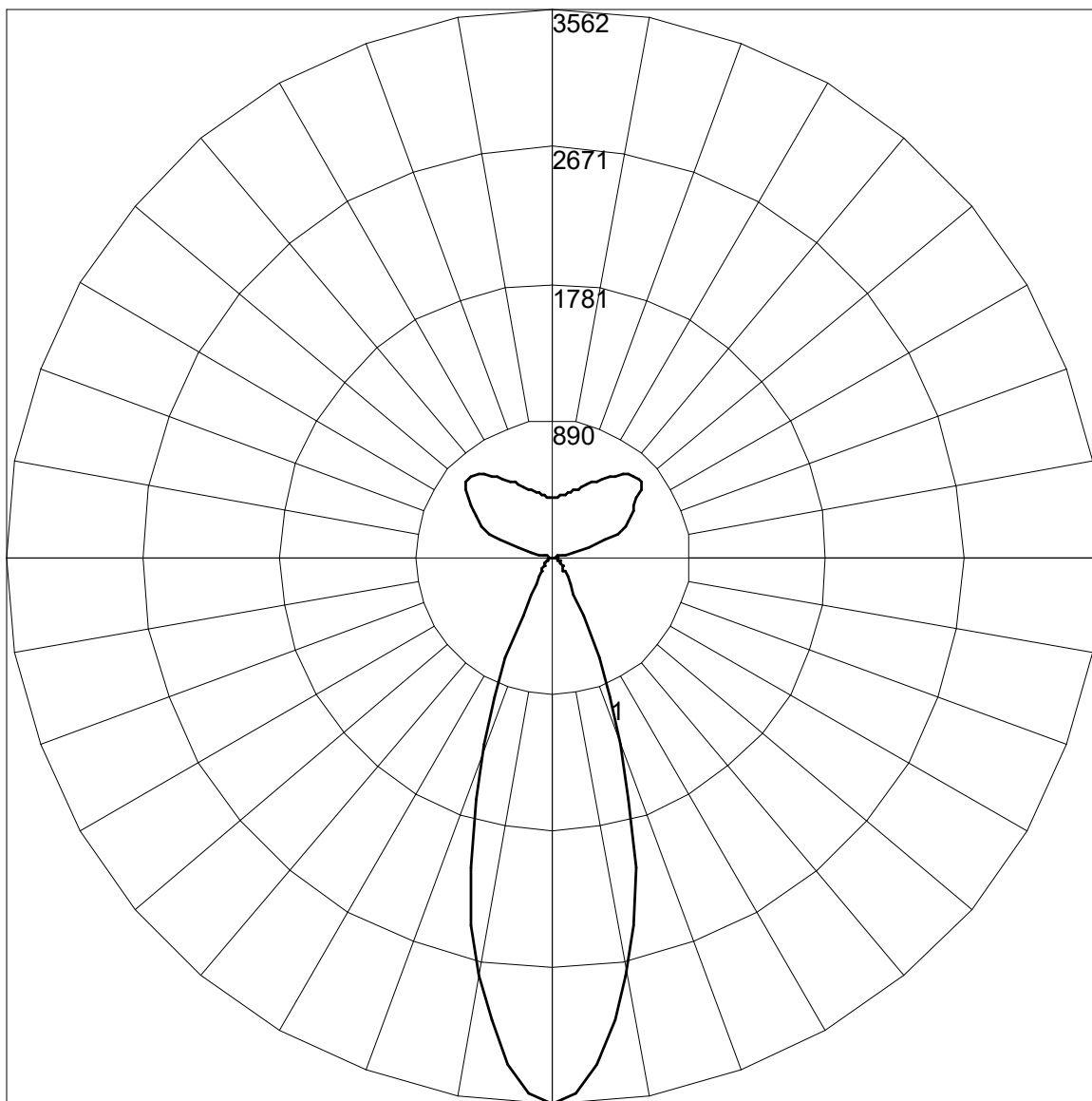
Effective Floor Cavity Reflectance 0.20

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	48	48	48	41
1	97	94	91	88	89	86	83	81	71	69	68	57	56	55	45	44	44	38
2	91	85	80	76	83	78	74	70	65	62	60	53	51	50	42	41	40	35
3	84	77	71	66	77	71	66	62	60	56	53	49	47	45	40	39	37	33
4	79	70	64	59	72	65	59	55	55	51	48	46	44	42	38	36	35	31
5	74	64	58	53	68	60	54	50	51	47	44	43	41	38	36	34	33	30
6	69	59	53	48	64	55	50	45	48	44	41	41	38	36	34	32	31	28
7	65	55	48	44	60	52	46	42	45	41	38	39	36	33	33	31	29	27
8	61	51	45	40	57	48	43	39	42	38	35	37	34	31	31	29	28	26
9	58	48	42	38	54	45	40	36	40	36	33	35	32	30	30	28	27	25
10	55	45	39	35	51	43	37	34	38	34	31	33	30	28	29	27	25	24

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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)