

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-MLB-ITL89456-KPL2008-6.010.IES

DESCRIPTION INFORMATION (From Photometric File)

[TEST]ITL89456-KPL2008-6.010 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-MLB
[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 KPL2008-6. 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]3074

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3073
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	95
Total Luminaire Watts	32.4
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	154	92	96
55	68	36	40
65	33	18	20
75	18	10	10
85	6	3	3

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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	3202.124	3202.124	3202.124	3202.124	3202.124
2.5	3121.298	3149.542	3136.181	3132.559	3145.722
5.0	2941.910	2982.925	2963.285	2962.139	2979.470
7.5	2670.697	2721.286	2722.375	2726.039	2738.101
10.0	2321.774	2365.572	2440.704	2459.881	2462.534
12.5	1863.007	1933.788	2110.597	2172.410	2176.511
15.0	1497.215	1572.826	1761.903	1889.135	1862.856
17.5	1126.156	1231.647	1496.147	1530.269	1446.070
20.0	761.583	875.839	1110.470	1149.839	1125.619
22.5	474.493	611.282	815.553	865.016	853.261
25.0	279.383	336.992	559.453	609.223	540.141
27.5	166.081	217.136	333.111	338.731	301.282
30.0	94.121	125.844	198.053	188.557	165.827
32.5	46.397	71.939	101.693	98.091	92.250
35.0	21.907	31.244	54.703	55.165	46.135
37.5	14.633	15.145	27.302	26.750	17.094
40.0	11.670	10.544	13.324	10.855	7.343
42.5	9.161	8.285	6.447	5.243	5.763
45.0	7.176	6.398	4.265	4.016	4.449
47.5	5.665	4.846	3.160	3.037	3.414
50.0	4.261	3.692	2.366	2.292	2.628
52.5	3.328	2.804	1.789	1.768	2.002
55.0	2.579	2.153	1.359	1.339	1.527
57.5	1.985	1.650	1.040	1.019	1.167
60.0	1.527	1.281	0.810	0.794	0.909
62.5	1.191	0.978	0.626	0.614	0.708
65.0	0.925	0.761	0.491	0.479	0.557
67.5	0.716	0.585	0.385	0.372	0.422
70.0	0.548	0.450	0.303	0.291	0.327
72.5	0.413	0.340	0.229	0.221	0.237
75.0	0.299	0.250	0.172	0.168	0.168
77.5	0.213	0.180	0.131	0.127	0.131
80.0	0.139	0.127	0.090	0.086	0.078
82.5	0.090	0.074	0.053	0.045	0.045
85.0	0.037	0.033	0.016	0.020	0.016
87.5	0.008	0.000	0.000	0.000	0.000
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	85.941	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-MLB-ITL89456-KPL2008-6.010.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	349.941	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	349.941	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	497.638
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-MLB-ITL89456-KPL2008-6.010.IES****ZONAL LUMEN SUMMARY**

Zone	Lumens	%Lamp	%Fixt
0-20	733.87	N.A.	23.90
0-30	963.61	N.A.	31.40
0-40	998.97	N.A.	32.50
0-60	1004.94	N.A.	32.70
0-80	1005.81	N.A.	32.70
0-90	1005.85	N.A.	32.70
10-90	740.28	N.A.	24.10
20-40	265.10	N.A.	8.60
20-50	269.45	N.A.	8.80
40-70	6.61	N.A.	0.20
60-80	0.87	N.A.	0.00
70-80	0.23	N.A.	0.00
80-90	0.04	N.A.	0.00
90-110	270.58	N.A.	8.80
90-120	627.57	N.A.	20.40
90-130	1035.65	N.A.	33.70
90-150	1711.39	N.A.	55.70
90-180	2067.64	N.A.	67.30
110-180	1797.06	N.A.	58.50
0-180	3073.49	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	265.56
10-20	468.31
20-30	229.74
30-40	35.35
40-50	4.35
50-60	1.62
60-70	0.64
70-80	0.23
80-90	0.04
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

IES INDOOR REPORT

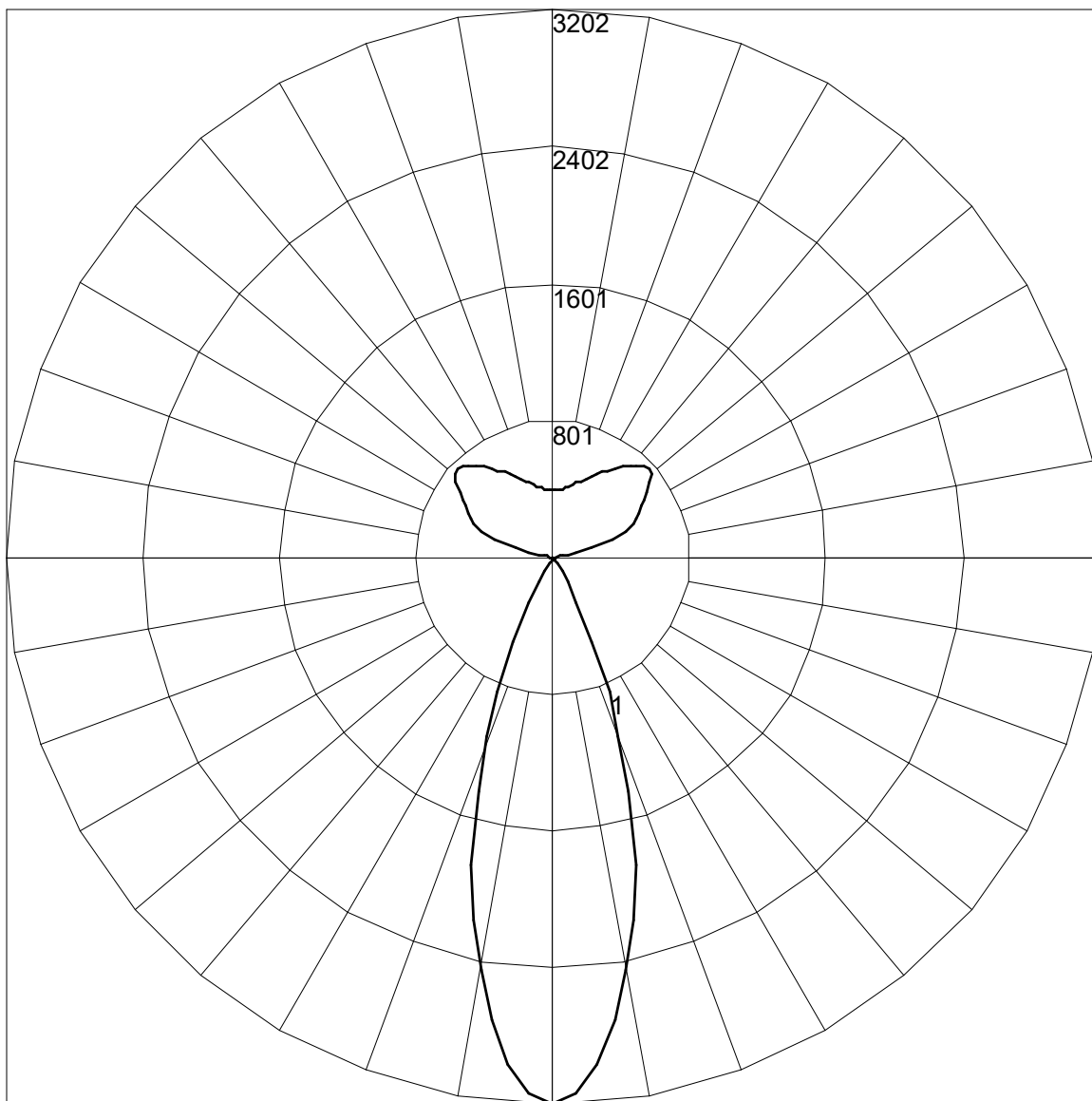
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

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	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	96	92	89	87	86	84	81	79	67	66	64	52	51	51	39	38	38	31
2	89	83	79	75	81	76	72	69	62	59	57	49	47	46	37	36	36	30
3	83	76	70	66	75	69	65	61	57	54	51	46	44	42	35	34	34	29
4	78	69	63	58	71	64	58	54	53	49	47	43	41	39	34	33	32	28
5	73	64	57	53	66	59	53	49	49	46	43	41	38	36	33	31	30	27
6	69	59	53	48	63	55	49	45	46	42	40	39	36	34	31	30	29	26
7	65	55	48	44	59	51	45	42	43	40	37	37	34	32	30	29	28	25
8	61	51	45	41	56	48	42	39	41	37	34	35	32	30	29	28	26	24
9	58	48	42	38	53	45	40	36	39	35	32	33	31	29	28	27	25	23
10	55	45	39	35	51	42	37	34	37	33	31	32	29	28	27	26	24	23

POLAR GRAPH



Maximum Candela = 3202.124 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (90 - 270)